

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

The Missouri Department of Natural Resources hereby issues a permit to:

Albert Hilty
Hilty's Bee Yards WWTF
620 Highway A
Middletown, MO 63359

for the construction of (described facilities):

See attached.

Permit Conditions:

See attached.

Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources (Department).

As the Department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

A representative of the Department may inspect the work covered by this permit during construction. Issuance of a permit to operate by the Department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

May 24, 2022
Effective Date

May 23, 2024
Expiration Date

Chris Wieberg, Director, Water Protection Program

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

Hilty's Bee Yards is located in the vicinity of the intersection of Highway A and Dove Hill Road in the city of Middletown in Montgomery County, Missouri. This project involves the construction of a new private wastewater treatment facility for a small vegetable canning processing plant. The design average flow of the system is 453 gallons per day and is designed as a no-discharge facility that will utilize land application. The scope of construction includes a single cell storage lagoon, a 1500 gallon septic tank, and approximately 755 feet of four-inch (4") polyvinyl chloride (PVC) pipe. The land application site has 10.6 acres of available area and is located near the treatment system. A custom applicator will be employed to pump down the lagoon and land apply the wastewater at an application rate of 1 inch/acre/year.

This project will also include general site work appropriate to the scope and purpose of the project and all necessary appurtenances to make a complete and usable wastewater treatment facility.

II. COST ANALYSIS FOR COMPLIANCE

Pursuant to Section 644.145, RSMo, when issuing permits under this chapter that incorporate a new requirement for discharges from publicly owned combined or separate sanitary or storm sewer systems or publicly owned treatment works, or when enforcing provisions of this chapter or the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., pertaining to any portion of a publicly owned combined or separate sanitary or storm sewer system or [publicly owned] treatment works, the Department of Natural Resources shall make a "finding of affordability" on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the Federal Water Pollution Control Act. This process is completed through a cost analysis for compliance. Permits that do not include new requirements may be deemed affordable.

The Department is not required to complete a cost analysis for compliance because the facility is not a combined or separate sanitary sewer system for a publically-owned treatment works.

III. CONSTRUCTION PERMIT CONDITIONS

The permittee is authorized to construct subject to the following conditions:

1. This construction permit does not authorize discharge.

2. All construction shall be consistent with plans and specifications signed and sealed by Jeff E. Browning, P.E. with Allied Engineering Services, LLC. and as described in this permit.
3. The Department must be contacted in writing prior to making any changes to the plans and specifications that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed wastewater treatment facilities or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(11).
4. State and federal law does not permit bypassing of raw wastewater, therefore steps must be taken to ensure that raw wastewater does not discharge during construction. If a sanitary sewer overflow or bypass occurs, report the appropriate information to the Department's St. Louis Regional Office per 10 CSR 20-7.015(9)(G).
5. The wastewater treatment facility shall be located at least 200 ft to residence and 50 ft to property line, per 10 CSR 20-8.140(C)(2).
6. The wastewater treatment facility shall be located above the twenty-five (25)-year flood level.
7. The wastewater facility structures, electrical equipment, and mechanical equipment shall be protected from physical damage by not less than the one hundred- (100-) year flood elevation per 10 CSR 20-8.140(2)(B). The minimum distance between wastewater treatment facilities and all potable water sources shall be at least three hundred feet (300') per 10 CSR 20-8.140(2)(C)1.
8. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of 1 acre or more to obtain a Missouri state operating permit to discharge stormwater. The permit requires best management practices sufficient to control runoff and sedimentation to protect waters of the state. Land disturbance permits will only be obtained by means of the Department's ePermitting system available online at <https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem>. See <https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting> for more information.
9. A United States Army Corps of Engineers (USACE) Clean Water Act Section 404 Department of the Army permit and a Section 401 Water Quality Certification issued by the Department may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied or notification is provided that no Section 404 permit is required by the USACE. You must contact your local USACE district since they determine what waters are jurisdictional and which permitting requirements may apply. You may call the Department's Water Protection Program, Operating Permits Section at 573-522-4502 for more information. See <https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality> for more information.

10. All construction must adhere to applicable 10 CSR 20-8 (Chapter 8) requirements listed below.

10 CSR 20-8.120 Gravity Sewers

- Vacuum testing, if specified for concrete sewer manholes, shall conform to the test procedures in ASTM C1244 – 11(2017) *Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test Prior to Backfill*, as approved and published April 1, 2017, or the manufacturer's recommendation. 10 CSR 20-8.120(4)(F)1.
- Exfiltration testing, if specified for concrete sewer manholes, shall conform to the test procedures in ASTM C969 – 17 *Standard Practice for Infiltration and Exfiltration Acceptance Testing of Installed Precast Concrete Pipe Sewer Lines*, as approved and published April 1, 2017. 10 CSR 20-8.120(4)(F)2.
- Flood protection shall apply to new construction and to existing facilities undergoing major modification. The wastewater facility structures, electrical equipment, and mechanical equipment shall be protected from physical damage by not less than the one hundred (100)-year flood elevation. 10 CSR 20-8.140(2)(B). 10 CSR 20-8.130(2)(A).
- Facilities shall be readily accessible by authorized personnel from a public right-of-way at all times. 10 CSR 20-8.140(2)(D). 10 CSR 20-8.130(2)(B).
- Adequate provisions shall be made to effectively protect facility personnel and visitors from hazards. The following shall be provided to fulfill the particular needs of each wastewater treatment facility: 10 CSR 20-8.130(2)(C)
 - Fencing. Enclose the facility site with a fence designed to discourage the entrance of unauthorized persons and animals; 10 CSR 20-8.140(8)(A)
 - Gratings over appropriate areas of treatment units where access for maintenance is necessary; 10 CSR 20-8.140(8)(B)
 - First aid equipment; 10 CSR 20-8.140(8)(C)
 - Posted "No Smoking" signs in hazardous areas; 10 CSR 20-8.140(8)(D)
 - Appropriate personal protective equipment (PPE); 10 CSR 20-8.140(8)(E)
 - Portable blower and hose sufficient to ventilate accessed confined spaces; 10 CSR 20-8.140(8)(F)
 - 10 CSR 20-8.140 (8) (G) Portable lighting equipment complying with NEC requirements. See subsection (7)(B) of this rule;
 - 10 CSR 20-8.140 (8) (H) Gas detectors listed and labeled for use in NEC Class I, Division 1, Group D locations. See subsection (7)(B) of this rule;
 - Appropriately-placed warning signs for slippery areas, non-potable water fixtures (see subparagraph (7)(D)3.B. of this rule), low head clearance areas, open service manholes, hazardous chemical storage areas, flammable fuel storage areas, high noise areas, etc.; 10 CSR 20-8.140(8)(I)
 - Provisions for local lockout/tagout on stop motor controls and other devices; 10 CSR 20-8.140(8)(L)

10 CSR 20-8.140 Wastewater Treatment Facilities

- Unless another distance is determined by the Missouri Geological Survey or by the department's Public Drinking Water Branch, the minimum distance between wastewater treatment facilities and all potable water sources shall be at least three hundred feet (300'). 10 CSR 20-8.140(2)(C)1.
- Facilities shall be readily accessible by authorized personnel from a public right-of-way at all times. 10 CSR 20-8.140(2)(D).
- All sampling points shall be designed so that a representative and discrete twenty-four (24) hour automatic composite sample or grab sample of the effluent discharge can be obtained at a point after the final treatment process and before discharge to or mixing with the receiving waters. 10 CSR 20-8.140(6)(B).
- All wastewater treatment facilities shall be provided with an alternate source of electric power or pumping capability to allow continuity of operation during power failures. 10 CSR 20-8.140(7)(A)1.
- An audiovisual alarm or a more advanced alert system, with a self-contained power supply, capable of monitoring the condition of equipment whose failure could result in a violation of the operating permit, shall be provided for all wastewater treatment facilities. 10 CSR 20-8.140(7)(C).
- No piping or other connections shall exist in any part of the wastewater treatment facility that might cause the contamination of a potable water supply. 10 CSR 20-8.140(7)(D)1.
- Where a potable water supply is to be used for any purpose in a wastewater treatment facility other than direct connections, a break tank, pressure pump, and pressure tank or a reduced pressure backflow preventer consistent with the department's Public Drinking Water Branch shall be provided. 10 CSR 20-8.140(7)(D)3.A.
- For indirect connections, a sign shall be permanently posted at every hose bib, faucet, hydrant, or sill cock located on the water system beyond the break tank or backflow preventer to indicate that the water is not safe for drinking. 10 CSR 20-8.140(7)(D)3.B.
- Where a separate non-potable water supply is to be provided, a break tank will not be necessary, but all system outlets shall be posted with a permanent sign indicating the water is not safe for drinking. 10 CSR 20-8.140(7)(D)4.
- A means of flow measurement shall be provided at all wastewater treatment facilities. 10 CSR 20-8.140(7)(E).
- The materials utilized for storage, piping, valves, pumping, metering, and splash guards, etc., for chemical handling, shall be specially selected considering the physical and chemical characteristics of each hazardous or corrosive chemical. 10 CSR 20-8.140(9)(A)1.

- Secondary containment storage areas contain the stored volume of chemical until it can be safely transferred to alternate storage or released to the wastewater treatment plant at controlled rates that will not damage the facilities, inhibit the treatment processes, or contribute to stream pollution. Secondary containment shall be designed as follows:
 - A minimum volume of one hundred twenty-five percent (125%) of the volume of the largest storage container located within the containment area plus the space occupied by any other tanks located within the containment area when not protected from precipitation; 10 CSR 20-8.140(9)(A)2.A.
 - A minimum volume of one hundred ten percent (110%) of the volume of the largest storage container located within the containment area plus the space occupied by any other tanks located within the containment area when protected from precipitation; 10 CSR 20-8.140(9)(A)2.B.
 - Walls and floors of the secondary containment structure constructed of suitable material that is compatible with the specifications of the product being stored. 10 CSR 20-8.140(9)(A)2.C.
- The identification and hazard warning data included on chemical shipping containers, when received, shall appear on all containers (regardless of size or type) used to store, carry, or use a hazardous substance. 10 CSR 20-8.140(9)(E).

10 CSR 20-8.150 Preliminary Treatment

- All wastewater treatment facilities must have a screening device, comminutor, or septic tank for the purpose of removing debris and nuisance materials from the influent wastewater. 10 CSR 20-8.150(2)

10 CSR 20-8.180 Biological Treatment

- A septic tank must have a minimum capacity of at least one thousand (1,000) gallons. 10 CSR 20-8.180(2)(A).
- The septic tank shall be baffled. 10 CSR 20-8.180(2)(B).

10 CSR 20-8.200 Wastewater Treatment Lagoons and Wastewater Irrigation Alternatives

- Lagoon berms shall be constructed of relatively impervious material and compacted to at least ninety-five percent (95%) maximum dry density test method to form a stable structure. 10 CSR 20-8.200(4)(A)1.
- The minimum berm width shall be eight feet (8') to permit access of maintenance vehicles. 10 CSR 20-8.200(4)(A)2.
- Minimum freeboard shall be two feet (2'). 10 CSR 20-8.200(4)(A)3.
- An emergency spillway shall be provided that—
 - Prevents the overtopping and cutting of berms; 10 CSR 20-8.200(4)(A)4.A.
 - Is compacted and vegetated or otherwise constructed to prevent erosion; 10 CSR 20-8.200(4)(A)4.B. and

- Has the ability for a representative sample to be collected, if discharging. 10 CSR 20-8.200(4)(A)4.C.
- The soil of the lagoon bottom shall be compacted with the moisture content between two percent (2%) below and four percent (4%) above the optimum water content and compacted to at least ninety-five percent (95%) maximum dry density test method. 10 CSR 20-8.200(4)(B)
- The lagoon shall be sealed to ensure that seepage loss is as low as possible and has a design permeability not exceeding 1.0×10^{-7} cm/sec. 10 CSR 20-8.200(4)(C)1.
- The minimum thickness of the compacted clay liner must be twelve inches (12"). For permeability coefficients greater than 1.0×10^{-7} cm/sec or for heads over five feet (5') such as an aerated lagoon system, the following formula shall be used to determine minimum seal thickness, Equation 200-1 per 10 CSR 20-8.200(4)(C)2.:

Equation 200-1

$$t = \frac{H \times K}{5.4 \times 10^{-7} \text{ cm/sec}}$$

where:

K = the permeability coefficient of the soil in question;

H = the head of water in the lagoon; and

t = the thickness of the soil seal.

- Seep collars shall be provided on drainpipes where they pass through the lagoon seal. 10 CSR 20-8.200(4)(C)4.
- Unlined corrugated metal pipe shall not be used for influent lines due to corrosion problems. 10 CSR 20-8.200(4)(D)1.
- The influent line(s) shall be located along the bottom of the lagoon so that the top of the pipe is just below the average elevation of the lagoon seal; however, there shall be an adequate seal below the pipe. 10 CSR 20-8.200(4)(D)3.
- The wetted application area of a surface irrigation system must be located
 - Outside of flood-prone areas having a flood frequency greater than once every ten (10) years; 10 CSR 20-8.200(6)(B)1.
 - At least one hundred fifty feet (150') from existing dwellings or public use areas, excluding roads or highways; 10 CSR 20-8.200(6)(B)2.A.
 - At least fifty feet (50') inside the property line; 10 CSR 20-8.200(6)(B)2.B.
 - At least three hundred feet (300') from any sinkhole, losing stream, or other structure or physiographic feature that may provide direct connection between the ground water table and the surface; 10 CSR 20-8.200(6)(B)2.C.
 - At least three hundred feet (300') from any existing potable water supply well not located on the property. Adequate protection shall be provided for wells located on the application site; 10 CSR 20-8.200 (6)(B)2.D.
 - One hundred feet (100') to wetlands, ponds, gaining streams (classified or unclassified; perennial or intermittent); 10 CSR 20-8.200(6)(B)2.E. and

- If an established vegetated buffer or the wastewater is disinfected, the setbacks established in subsections (A)–(E) above may be decreased if the applicant demonstrates the risk is mitigated. 10 CSR 20-8.200(6)(B)2.F.
- The wetted application area of a surface irrigation system must be Fenced, or if not fenced, provide in the construction permit application or the facility plan, the—
 - Method of disinfection being utilized; 10 CSR 20-8.200(6)(B)3.A.
 - Suitable barriers in place, 10 CSR 20-8.200(6)(B)3.B. or
 - Details on how public access is limited and not expected to be present. 10 CSR 20-8.200(6)(B)3.C.
- At a minimum, treatment prior to irrigation shall provide performance equivalent to that obtained from a primary wastewater lagoon cell and include 105 days wastewater storage in addition to the primary volume. 10 CSR 20-8.200(6)(C).
- The public shall not be allowed into an area when irrigation is being conducted; 10 CSR 20-8.200(6)(F)2.

11. Upon completion of construction:

- A. Albert Hilty will become the continuing authority for operation and maintenance of these facilities;
- B. Submit an electronic copy of the as builts if the project was not constructed in accordance with previously submitted plans and specifications;
- C. Submit the enclosed form Wastewater Construction Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(N).

IV. REVIEW SUMMARY

1. CONSTRUCTION PURPOSE

The purpose of the proposed construction is to receive and process wastewater flows from a small vegetable canning processing facility.

2. FACILITY DESCRIPTION

Hilty's Bee Yards WWTF is a new facility located at 620 Highway A, Middletown, in Montgomery County, Missouri. The facility has a design average flow of 453 gpd and serves a hydraulic population equivalent of approximately 5 people. The facility will include a kitchen processing building, a septic tank, a wastewater storage pond, and PVC sewer pipes. The facility plans to process vegetables and can them for retail sales. The average annual flow volume will be 165,942 gallons which includes process wastewater and contributions from rainfall minus evaporation.

A custom applicator will be hired to land apply wastewater, and it is expected the applicator will utilize a land application irrigation pump and a traveling gun.

3. COMPLIANCE PARAMETERS

The proposed project is required to meet the requirements of MO-G822 General Permit for the Land Application of Food Processing Wastewater with an expiration date of May 22, 2022. MO-G822 is proposed to be replaced by General Permit MO-G822xxx, currently under development. It is expected that MO-G822xxx, will be assigned to this facility.

The limits following the completion of construction will be applicable to the facility:

Process Wastewater for SIC Codes 203x		
<u>Parameter</u>	<u>Units</u>	<u>Limit</u>
Total Kjeldahl Nitrogen	mg/L	*
Total Phosphorus	mg/L	*
Total Sodium	mg/L	*
Total Suspended Solids	mg/L	*
Total Chloride as Cl	mg/L	*
pH	SU	6.0-9.0
Oil and Grease	mg/L	*
Land Application Rate Criteria		
<u>Parameter</u>	<u>Maximum Annual Loading</u>	
Total Kjeldahl Nitrogen	150 lbs./acre/year	
Oil and Grease	1000 lbs./acre/year	
pH, Standard Units	6.0 – 9.0 in applied wastes	

Earthen Storage Basin Operational Monitoring		
<u>Parameter</u>	<u>Units</u>	<u>Limit</u>
Storage Basin Freeboard	feet	**
Precipitation	inches	**
Land Application Operational Monitoring		
<u>Parameter</u>	<u>Units</u>	<u>Limit</u>
Irrigation Period	hours	**
Volume Irrigated	gallons	**
Application Area	acres	**
Application Rate	inches	0.5

* Monitoring requirement only, monitor and report annually

** Sample as required and report resulting value monthly

4. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

Construction will cover the following items:

- **Septic Tank** – A septic tank provides passive primary treatment as the settleable solids in raw wastewater settle onto the bottom of the tank. Raw wastewater will flow by gravity to the 1,500 gallon septic tank. All flow from the septic tank will discharge by gravity through 4-inch schedule 40 PVC piping with necessary cleanouts into the storage lagoon. Settled solids in the septic tank shall be removed by a contract hauler.
- **Storage Lagoon** – The lagoon will be constructed and sealed with an 18-inch clay liner. Based on the Geohydrologic Evaluation conducted on October 26th, 2021, the site received a slight overall geological limitation rating and a slight collapse potential rating. The basin will have 3:1 side slopes, a depth from the top of the berm to the lagoon floor of 12 ft, with 2 ft for sludge depth, and 2 ft of freeboard plus 1 ft above the emergency spillway. The depth minus freeboard and the sludge blanket is 7 ft. The basin is non-aerated and has a surface area of 6,724 square feet (0.15 acres) at the top of the berm. This provides approximately 230 days of retention at the proposed design flow and 154 days at the 1 in 10-year rainfall minus evaporation wet weather design flow. This meets the minimum storage requirement of 105 days for Montgomery county. The berm width will be 10 ft. This lagoon site is going to be fenced.
- **Land Application Site** – Temporary surface irrigation hose, a traveling gun irrigation system, and irrigation pump to apply wastewater to the nearby 10.6 acre field for nutrient utilization. The land application area will be maintained in a cool season grass hay/pasture. The maximum annual application rate will not exceed 1.0 inches per acre and at this rate requires 6.1 acres of the 10.6 available acres to pump on in the average year. This farm is fenced around the perimeter, and a new fence will be constructed around the lagoon. Proposed application rates are 0.2 inches/hour, 0.5 inches/day, 1 inches/week, and 1 inches/year.
- **Land Application Irrigation Pump** – Pump similar to a Jifco model KFNG2.5B-G23S (23 HP) with the ability to transfer wastewater to the irrigation fields at a variable rate from 50 gpm at 110 psi (254' TDH) to 175 gpm at 90 psi (208' TDH).
- **Wastewater Irrigation**
 - **Traveling Gun** – Wastewater irrigation will be completed with a system similar to a Kifco model T25x750 water-Reel traveling gun system or similar model that has the capacity to irrigate from 50 gpm (3,000 gph) to 175 gpm (10,500 gph) and has an irrigated width of 154' to 207' and a pull length of up to 831' allowing it to irrigate from less than one acre up to 3.9 acres per set. The irrigation line from the storage basin to the traveling gun connection valves is approximately 200 lf of temporary surface irrigation pipe or hose. The land application rate will be based on hydraulic loading.

5. OPERATING PERMIT

After completion of construction project submit: statement of work completed, as-built if the project was not constructed in accordance with previously submitted plans and specifications. An application for a General Permit, Form E, has been submitted along with the application fee of \$200.00. It is anticipated that Missouri State Operating Permit, General Permit MO-G22xxxx (under development), will be issued after receipt of the above documents.

V. NOTICE OF RIGHT TO APPEAL

If you were adversely affected by this decision, you may be entitled to an appeal before the Administrative Hearing Commission (AHC) pursuant to Section 621.250 RSMo. To appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. Any appeal should be directed to:

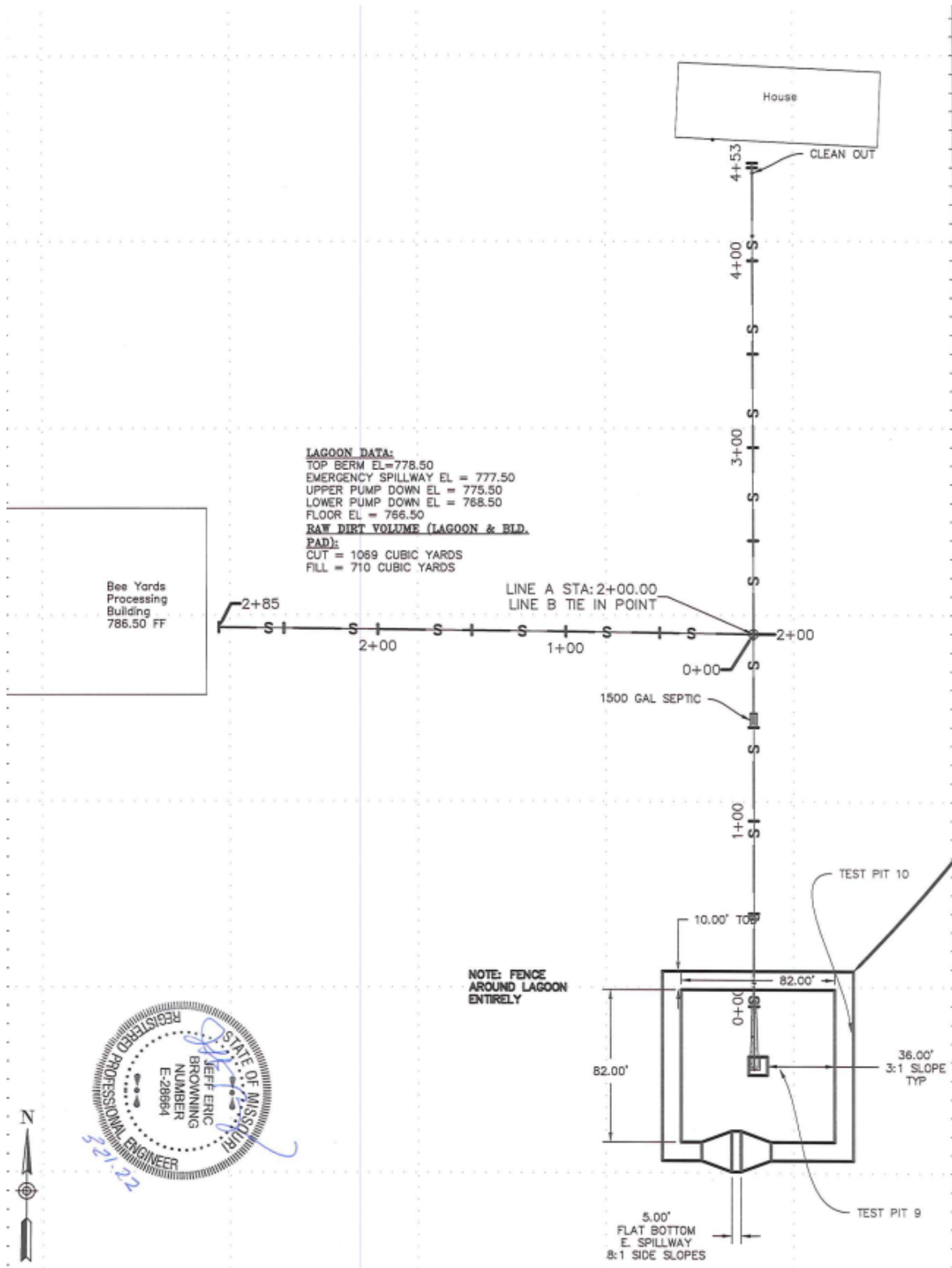
Administrative Hearing Commission
U.S. Post Office Building, Third Floor
131 West High Street, P.O. Box 1557
Jefferson City, MO 65102-1557
Phone: 573-751-2422
Fax: 573-751-5018
Website: <https://ahc.mo.gov>

Thomas Silkwood
Engineering Section
thomas.silkwood@dnr.mo.gov

John Rustige, P.E.
Engineering Section
john.rustige@dnr.mo.gov

APPENDIX

- **Process Flow Diagram**



LAGOON DATA:
 TOP BERM EL=778.50
 EMERGENCY SPILLWAY EL = 777.50
 UPPER PUMP DOWN EL = 775.50
 LOWER PUMP DOWN EL = 768.50
 FLOOR EL = 766.50
RAW DIRT VOLUME (LAGOON & BLD. PAD):
 CUT = 1069 CUBIC YARDS
 FILL = 710 CUBIC YARDS

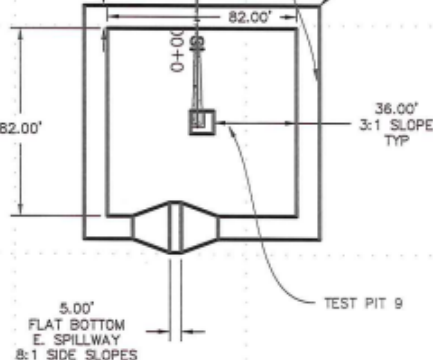
Bee Yards
 Processing
 Building
 786.50 FF

LINE A STA: 2+00.00
 LINE B TIE IN POINT

1500 GAL SEPTIC

TEST PIT 10

NOTE: FENCE
 AROUND LAGOON
 ENTIRELY





MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM
**APPLICATION FOR CONSTRUCTION PERMIT –
 WASTEWATER TREATMENT FACILITY**

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED \$1000.00	CHECK NO. 3149
DATE RECEIVED 10-4-21	

APPLICATION OVERVIEW

The Application for Construction Permit – Wastewater Treatment Facility form has been developed in a modular format and consists of Part A and B. **All applicants must complete Part A.** Part B should be completed for applicants who currently land-apply wastewater or propose land application for wastewater treatment. **Please read the accompanying instructions before completing this form. Submittal of an incomplete application may result in the application being returned.**

PART A – BASIC INFORMATION

1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are answered NO, this application may be considered incomplete and returned.)

- 1.1 Is this a Federal/State funded project? YES N/A Funding Agency: _____ Project #: _____
- 1.2 Has the Missouri Department of Natural Resources approved the proposed project's antidegradation review?
 YES Date of Approval: _____ N/A
- 1.3 Has the department approved the proposed project's facility plan*?
 YES Date of Approval: _____ NO (If No, complete No. 1.4.)
- 1.4 [Complete only if answered No on No. 1.3.] Is a copy of the facility plan* for wastewater treatment facilities included with this application?
 YES NO Exempt because Private no-discharge facility
- 1.5 Is a copy of the appropriate plans* and specifications* included with this application?
 YES Denote which form is submitted: Hard copy Electronic copy (See instructions.) NO
- 1.6 Is a summary of design* included with this application? YES NO
- 1.7 Has the appropriate operating permit application (A, B, or B2) been submitted to the department?
 YES Date of submittal: _____
 Enclosed is the appropriate operating permit application and fee submittal. Denote which form: A B B2
 N/A: However, In the event the department believes that my operating permit requires revision to permit limitation such as changing equivalent to secondary limits to secondary limits or adding total residual chlorine limits, please share a draft copy prior to public notice? YES NO
- 1.8 Is the facility currently under enforcement with the department or the Environmental Protection Agency? YES NO
- 1.9 Is the appropriate fee or JetPay confirmation included with this application? YES NO
 See Section 7.0

* Must be affixed with a Missouri registered professional engineer's seal, signature and date.

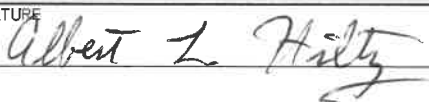
2.0 PROJECT INFORMATION

2.1 NAME OF PROJECT Hilty's Bee Yards	2.2 ESTIMATED PROJECT CONSTRUCTION COST \$
2.3 PROJECT DESCRIPTION Small canning processing plant with earthen storage lagoon and land application.	
2.4 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION Land application.	
2.5 DESIGN INFORMATION A. Current population: <u>n/a</u> ; Design population: <u>n/a</u> B. Actual Flow: <u>455</u> gpd; Design Average Flow: <u>763</u> gpd; Actual Peak Daily Flow: <u>763</u> gpd; Design Maximum Daily Flow: <u>763</u> gpd; Design Wet Weather Event: _____	
2.6 ADDITIONAL INFORMATION A. Is a topographic map attached? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO B. Is a process flow diagram attached? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

RECEIVED

OCT 4 2021

Water Protection Program

3.0 WASTEWATER TREATMENT FACILITY				
NAME Hilty's Bee Yards		TELEPHONE NUMBER WITH AREA CODE		E-MAIL ADDRESS
ADDRESS (PHYSICAL) 620 Hwy A		CITY Middletown	STATE MO	ZIP CODE 63359
COUNTY Montgomery				
Wastewater Treatment Facility: Mo- (Outfall 1 Of 1)				
3.1 Legal Description: <u>SE ¼, NW ¼, NW ¼, Sec. 15, T 50N, R 5W</u> (Use additional pages if construction of more than one outfall is proposed.)				
3.2 UTM Coordinates Easting (X): <u>4330076</u> Northing (Y): <u>632958</u> For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)				
3.3 Name of receiving streams: <u>Crooked Creek</u>				
4.0 PROJECT OWNER				
NAME Albert Hilty		TELEPHONE NUMBER WITH AREA CODE		E-MAIL ADDRESS
ADDRESS 620 Hwy A		CITY Middletown	STATE MO	ZIP CODE 63359
5.0 CONTINUING AUTHORITY: A continuing authority is a company, business, entity or person(s) that will be operating the facility and/or ensuring compliance with the permit requirements.				
NAME Albert Hilty		TELEPHONE NUMBER WITH AREA CODE		E-MAIL ADDRESS
ADDRESS 620 Hwy A		CITY Middletown	STATE MO	ZIP CODE 63359
5.1 A letter from the continuing authority, if different than the owner, is included with this application. <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A				
5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A MISSOURI PUBLIC SERVICE COMMISSION REGULATED ENTITY.				
A. Is a copy of the certificate of convenience and necessity included with this application? <input type="checkbox"/> YES <input type="checkbox"/> NO				
5.3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A PROPERTY OWNERS ASSOCIATION.				
A. Is a copy of the as-filed restrictions and covenants included with this application? <input type="checkbox"/> YES <input type="checkbox"/> NO				
B. Is a copy of the as-filed warranty deed, quitclaim deed or other legal instrument which transfers ownership of the land for the wastewater treatment facility to the association included with this application? <input type="checkbox"/> YES <input type="checkbox"/> NO				
C. Is a copy of the as-filed legal instrument (typically the plat) that provides the association with valid easements for all sewers included with this application? <input type="checkbox"/> YES <input type="checkbox"/> NO				
D. Is a copy of the Missouri Secretary of State's nonprofit corporation certificate included with this application? <input type="checkbox"/> YES <input type="checkbox"/> NO				
6.0 ENGINEER				
ENGINEER NAME / COMPANY NAME Jeff E. Browning, PE		TELEPHONE NUMBER WITH AREA CODE (573)470-7447		E-MAIL ADDRESS jeff@alliedengineering.us
ADDRESS P.O. Box 22		CITY Silex	STATE MO	ZIP CODE 63377
7.0 APPLICATION FEE				
<input checked="" type="checkbox"/> CHECK NUMBER <input type="checkbox"/> JETPAY CONFIRMATION NUMBER				
8.0 PROJECT OWNER: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.				
PROJECT OWNER SIGNATURE 				
PRINTED NAME Albert Hilty			DATE 9/28/2021	
TITLE OR CORPORATE POSITION Owner		TELEPHONE NUMBER WITH AREA CODE		E-MAIL ADDRESS
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 176 JEFFERSON CITY, MO 65102-0176				
END OF PART A.				
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHETHER PART B NEEDS TO BE COMPLETE.				