



LARGE UNDERGROUND WASTEWATER OPERATING PERMIT
Division of Water Quality

NAME OF SYSTEM: UTAH HOUSE-BOTANICAL CENTER

CONTACT PERSON/MAILING ADDRESS/PHONE NO: David Anderson 4870 Old Main Hill
 Logan UT 84322 435-797-1984

SYSTEM LOCATION: Utah Botanical Center, Kaysville City, Davis County

ISSUE DATE: 03/01/2015 **EXPIRATION DATE:** 03/01/2020

ISSUED BY: *[Signature]*

Walter L. Baker, P.E., Director, Division of Water Quality

Until such time as this permit expires or is modified or revoked, the permittee is authorized to operate a large underground wastewater disposal system in conformance with all the requirements, limitations, and conditions set forth in *Utah Administrative Code R317-5*, with the attached schedules as follows:

SCHEDULE A

Waste Disposal Limitations:

1. The permittee is authorized to operate and maintain a large underground wastewater disposal system that has been constructed in accordance with plans and specifications approved by the Division of Water Quality and with the following conditions:

- a. System type Conventional Gravity; _____
 Conventional with Pump-to-Gravity; _____
 Pressure Distribution; _____
 Alternative (describe) _____ *

b. Maximum Daily Design Flow of **170 gal***
This system is defined by rule R317-r as an "Experimental System" and shall apply the following schedules as follows:

c. Components of wastewater disposal system (check)

- | | |
|---|---|
| <input type="checkbox"/> Recirculating Tank _____ | <input checked="" type="checkbox"/> Septic Tanks; 1,500 Gal _____ |
| <input type="checkbox"/> Grease Trap _____ | <input type="checkbox"/> Distribution Box _____ |
| <input checked="" type="checkbox"/> Pump Tank With Floats 1,500 Gal _____ | <input type="checkbox"/> Pressure Distribution _____ |
| <input type="checkbox"/> Control Panel _____ | <input type="checkbox"/> Drip Irrigation _____ |
| <input checked="" type="checkbox"/> Trenches _____ | <input checked="" type="checkbox"/> Enhanced Trt Unit _____ |
| <input type="checkbox"/> Deep Trench _____ | <input type="checkbox"/> Ratcheting Valve Box _____ |
| <input type="checkbox"/> Bed _____ | <input type="checkbox"/> Mound _____ |
| <input checked="" type="checkbox"/> Other (describe) <u>Dispersal usually is at base and surrounding treatment unit, but one pod was modified to collect treated wastewater for sampling and then discharge into conventional gravity trench.</u> | |

d. Drainfield media Gravel; Gravelless Chambers _____

e. Effluent parameters will meet R317-4 for domestic wastewater or additional treatment may be required.

- 2.. Discharge of untreated or partially treated sewage or septic tank effluent directly or indirectly onto the ground surface or the surface waters of the state constitutes a public health hazard and is prohibited. This permit does not relieve the permittee from responsibility for compliance with any other applicable federal, state, or local law(s), rule(s) or standard(s).
- 3.. No cooling water, air conditioner water, ground water, oil, hazardous materials, roof drainage, storm water runoff, or other aqueous or non-aqueous substance which is, in the judgment of the Division, detrimental to the performance of the
- 4.. No activities shall be conducted that could cause an adverse impact on existing or potential beneficial use of groundwater.

SCHEDULE B

Required Servicing and Inspections

1. Annually Semi-Annually (every 6 months) Other (specify)

2. All servicing and inspections must be conducted by a certified maintenance person per R317-11. Level 2 is required for conventional systems and level 3 for all other LUWDS.

Name of person performing maintenance on this system: / **Brian Cowan, Weber County**

Level 2 Level 3 *Note: if this person is replaced with another maintenance person, the owner must notify the Division within 30 day of change.*

- If Sample results exceed Operating Parameters (other than Flow of wastewater) in table titled "Minimum Monitoring and Reporting Requirements", report to the Division within 5 days and follow rules in R317-5-1.4 (F).

Inspection Components

TYPE OF SYSTEM	Measure sludge/scum levels, pump when necessary: * Septic Tank * Pump Tank * Grease Trap	Inspect and clean when necessary * Pump/Floats * Control Panel * Pump Filter	Flush/clean pressure laterals; inspect for ponding or surfacing in dispersal area; reset squirt height for equal pressure	Manufacturers Recommendations: * Recirc Tank * Pre-Treatment Unit * Misc
Conventional Gravity or Pump-to-Gravity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pressure System (Drip)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mound, At-Grade	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Packed Bed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

* Or more per manufacturer requirements

Minimum Frequency of Periodic Inspections

TYPE OF SYSTEM	Every 12 months	Every 6 months
Conventional Gravity or Pump-to-Gravity 5,000 - 15,000 gal/day	<input type="checkbox"/>	<input type="checkbox"/>
15,000 + gal/day	<input type="checkbox"/>	<input type="checkbox"/>
At-Grade Alternative System (first 5 years only)	<input type="checkbox"/>	<input type="checkbox"/>
Mound (drip, pressure)	<input type="checkbox"/>	<input type="checkbox"/>
Packed Bed	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Treatment System (to lower waste strength levels)	<input type="checkbox"/>	<input type="checkbox"/>

Monitoring and Reporting Requirements

Item or Parameter	Minimum Frequency	Type of Sample	Operating Parameters
Flow of wastewater (gpd)	Monthly	Measurement based on meter readings	Approved design flow (gpd)
COD, TSS, BOD	Every 6 months	Grab	COD - 75 mg/L; TSS - 25 mg/L
Total Inorganic Nitrogen (TIN)	Every 6 months	Grab	TIN - 15 mg/L
E-coli	Every 6 months	Grab	200 mg/L

Reporting

Monitoring, maintenance practices, solids handling and results shall be reported on Division approved forms and must be submitted by **August 1, following the "reporting year" period of July 1 to June 30.**

Mail or email Reports to (permitting agency): Division of Water Quality, c/o LUWDS, PO Box 144870, Salt Lake City, UT 84114-4870

Office: 801-536-4329 Fax: 801-536-4301 email: LUWDS@utah.gov

SCHEDULE C

Special and General Conditions

- All septage/sludge shall be managed by a licensed sewage scavenger (pumper) as defined in R317-550.
- Any observations of excessive kitchen wastes, surfacing sewage, etc., must be report to the Division within 5 working days
- The permittee must maintain all treatment and control facilities in good working order and in conformance with permit requirements.