

DAVID Y. IGE
GOVERNOR OF HAWAII



BRUCE S. ANDERSON, Ph.D.
DIRECTOR OF HEALTH

STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. BOX 3378
HONOLULU, HAWAII 96801-3378

In reply, please refer to:
File: SDWB
1356trans

May 30, 2019

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
7017 0660 0000 2029 8611

The Honorable Jade T. Butay
Director
Department of Transportation
State of Hawaii
869 Punchbowl Street
Honolulu, Hawaii 96813-5097
[via jade.butay@hawaii.gov]

Dear Mr. Butay:

**SUBJECT: HILO INTERNATIONAL AIRPORT
UNDERGROUND INJECTION CONTROL (UIC)
UIC PERMIT NO. UH-1356
PERMIT-RENEWAL AND
FACILITY-NAME-CHANGE APPLICATIONS**

The Safe Drinking Water Branch (SDWB) UIC Program has satisfactorily completed the review of the UIC applications. Therefore, you are hereby granted approval to operate the two (2) injection wells under the terms and conditions of the enclosed permit, issued on June 2, 2019, expiring on June 1, 2024.

Your facility and injection wells have retained the following identification numbers:

**UIC Permit No. UH-1356
Facility ID No. 8-4302.01
Well Nos. 1 and 2**

Please refer to the UIC permit number in all future correspondence with this office.

Failure to comply with the terms and conditions of the permit will constitute a violation of the permit. Any person who violates the permit's terms and conditions or any provision of Hawaii Administrative Rules, Title 11, Chapter 23, Underground Injection Control, as amended, shall be subject to the penalties provided in, Hawaii Revised Statutes, Section 340E-8, as amended.

The Honorable Jade T. Butay
May 30, 2019
Page 2

A guidelines document for an injection well status report has been enclosed for your reference. The guidelines document shall be used as referenced in the UIC permit under "Part B. Monitoring and Reporting Conditions 1. (f)."

Please review and pay special attention to Part B. "Monitoring and Reporting Conditions." Under this section, you are responsible for monitoring, record keeping, and reporting conditions. Noncompliance with this section will result in a violation of the UIC permit. Please contact us if you have any question pursuant to this section.

If you have any questions regarding your permit, or the UIC Program, please contact Mr. Jaime Rimando of the Safe Drinking Water Branch UIC Program at 586-4258.

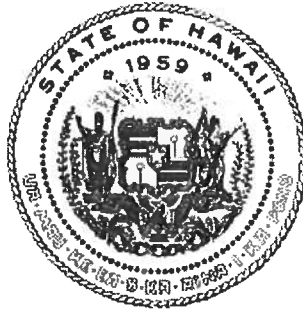
Sincerely,



FOR BRUCE S. ANDERSON, Ph.D.
Director of Health

Enclosures: UIC Permit
UIC Injection Well Status Report Guidelines (10/99)

c: Theresa McGeehan-Takiue, SDWB, Hilo (w/o encls.) via email
Ms. Diana Kenjic, P.E. Aqua Engineers, Inc. (w/encls.)
[via diana@aquengineers.com]



**STATE OF HAWAII
DEPARTMENT OF HEALTH**

**UNDERGROUND INJECTION CONTROL
(UIC)**

PERMIT NO. UH-1356

FACILITY IDENTIFICATION NO. 8-4302.01

for

HILO INTERNATIONAL AIRPORT

*Operated By
Airports Division
Department of Transportation
State of Hawaii*

TABLE OF CONTENTS

A. OPERATING CONDITIONS:5
 1. Injectant Characteristics5
 2. Injection Limitations and Prohibitions.....5
 B. MONITORING AND REPORTING CONDITIONS:7
 1. Injectant and Injection Well Monitoring.....7
 2. Accurate, Current, and Representative Information11
 3. Reporting of Noncompliance of Injectant Limitations11
 4. Additional Monitoring and Reporting11
 5. Records Retention11
 6. Anticipated Changes11
 7. Advance Notification of Change in Operator, Ownership, Control, or Facility Name12
 8. Twenty-Four Hour Reporting12
 9. Definitions.....13
 C. MANAGEMENT CONDITIONS:14
 1. Change in Discharge14
 2. Signatory Statement14
 3. Availability of Reports.....14
 4. Proper Operation and Maintenance14
 5. Permit Reapplication.....15
 6. Permit Extension.....15
 7. Injection Well Abandonment15
 D. GENERAL CONDITIONS16
 1. Operating Conditions16
 2. Permit Issuance16
 3. Permit Modification17
 4. New Rules and Regulations17
 5. Investigative and/or Mitigative-action Work17
 6. Duty to Mitigate.....18
 7. Property Rights18
 8. Right of Entry18
 9. Need to Halt or Reduce an Activity Not a Defense18
 10. Penalties18
 11. Severability19
 E. OTHER CONDITIONS:.....20
 1. Modifications to Monitoring and Reporting20
 2. Sewage Collection System.....20

Attachments

UIC (daily) Injection Well Quantity Record (gallons) Form..... Attachment
 UIC (regular) Injection Well Periodic Recorded Inspection Form Attachment
 Monitoring and Reporting Schedule Attachment
 Injection Well Location Plan Attachment

**AUTHORIZATION TO OPERATE UNDER THE
 UNDERGROUND INJECTION CONTROL PROGRAM**

In compliance with the provisions of the Safe Drinking Water Act, Chapter 340E, Hawaii Revised Statutes (HRS), as amended, and Hawaii Administrative Rules (HAR), Title 11, Chapter 23, Underground Injection Control, as amended;

HILO INTERNATIONAL AIRPORT
 Operated by
 Airports Division
 Department of Transportation
 State of Hawaii

is authorized to operate a Class V, Subclass AB, injection well system consisting of two (2) injection wells as described in Table No. 1;

TABLE NO. 1

Injection Well No.	1	2
Latitude	19.712361	19.712265
Longitude	-155.038237	-155.038237
Elevations:		
Ground Surface	53 ft.	53 ft.
Bottom of Well	23 ft.	23 ft.
Total Depth of Well Below Ground Surface	30 ft.	30 ft.
Well Cellar:		
Lateral Dimensions	6 ft. dia.	6 ft. dia.
Depth	4.7 ft.	4.7 ft.
Material	Reinforced Concrete	Reinforced Concrete
Solid Casing:		
Diameter	8 in.	8 in.
Stick Up	6 in.	6 in.
Total Length	5.8 ft.	5.8 ft.
Material	Steel	Steel
Perforated Casing:	NONE	NONE
Diameter		
Perforation		
Stick Up		
Total Length		
Material		
Open Hole:		
Diameter	8 in.	8 in.
Total Length	20 ft.	20 ft.
Annular Backfill:		
Capping	Unknown	Unknown
Solid Casing	Unknown	Unknown
Separation	n/a	n/a
Perforated Casing	n/a	n/a
Open Hole	n/a	n/a

to dispose of secondary treated domestic wastewater effluent;
located Airport Road, Hilo, Hawaii 96720;
at Tax Key Number: 3rd Division, 2-1-12:009;
at central coordinates: Latitude 19° 42' 53.2" N and Longitude 155° 02' 22.7" W;
under Facility Identification Number: 8-4302.01;
in accordance with monitoring conditions, and other terms and conditions set forth in Parts
A, B, C, D, and E hereof.

This permit becomes effective upon issuance.

This permit and the authorization to operate the two (2) injection wells will expire at
midnight, June 1, 2024.

Issued on June 2, 2019.



(For) Director of Health

A. OPERATING CONDITIONS:

1. Injectant Characteristics

Injectant in this permit is limited to secondary treated domestic wastewater effluent, as described in Section 11-62-26 of HAR, Title 11, Chapter 62, "Wastewater Systems," from Hilo International Airport's private wastewater treatment facility.

2. Injection Limitations and Prohibitions

(a) Injectant in this permit is exclusively limited to the injectant described in Part A.1. above; furthermore, any injectant not described in Part A.1. is explicitly prohibited unless the injectant characteristics of this permit are revised accordingly.

(b) No discharge of hazardous wastes as defined by Title 40, Code of Federal Regulations (CFR), Part 261.

(c) Injection Pressure:

Gravity flow of the injectant from the treatment plant into the injection wells.

(d) Injection Quantity and Rate:

The permittee shall not exceed the design average flow of 40,000 gallons per day (gpd) averaged every calendar week.

(e) Concentrations of the Injectant

Chemical and physical analyses are required as detailed in Part B.1.(c) of this permit to determine the chemical concentration levels and/or the physical nature of the injectant. Furthermore, chemical and physical analyses include analyses that are used to determine compliance to secondary treatment as described in HAR, Section 11-62-26. Chemical analyses in Part B.1.(c) may include analyses that are capable of analyzing the injectant for the characteristics of a hazardous waste, for volatile organic compounds, or for dissolved nutrients associated with the processes of eutrophication.

Biochemical Oxygen Demand (BOD₅) for every grab sample shall not exceed 60 milligrams per liter (mg/l).

Suspended Solids for every grab sample shall not exceed 60 milligrams per liter (mg/l).

Certain chemical and/or physical parameters may be specified in this permit with an Action Level, a Regulatory Level, or both. Regulatory Levels shall not be exceeded. Chemical and/or physical parameters with or without specified Action Levels or Regulatory Levels may be subject to revised concentration levels pursuant to changing concerns related to public or environmental health, safety, or relevant laws and regulations.

B. MONITORING AND REPORTING CONDITIONS:

1. Injectant and Injection Well Monitoring

(a) Injectant samples, measurements, and analyses taken or conducted as required by this permit shall be valid and representative of the volume and nature of the injectant. Pursuant to the monitoring and reporting conditions of this permit, detailed records of the operation of the injection wells shall be kept by the permittee. When applicable, records shall include at a minimum the following information:

- (1) Type of injectant;
- (2) Quantity of injectant;
- (3) The method of injection;
- (4) Injection pressure;
- (5) The rate of injection;
- (6) The operational status of the injection well;
- (7) The exact date and time of the measurement or sampling;
- (8) The person(s) who performed the measurement or sampling;
- (9) The dates the analyses were performed;
- (10) The person(s) who performed the analyses;
- (11) The analytical techniques or methods used;
- (12) The results of all required analyses and permit limits; and
- (13) Chain of Custody.

(b) A daily record of the injectant quantity (gpd) being discharged into the injection well system shall be kept. Injectant quantity recordings shall be continuously made through a direct measurement of the wastestream or by a method approved by the Director.

A IIC (daily) Injection Well Quantity Record (gallons) Form is attached to this permit for reproduction and use. This form shall be used to submit quantity recordings as required by the Director.

(c) As specified in Table Nos. 2 and 3, representative grab samples (two (2) types) of the injectant shall be collected from a collection point to be established by the permittee and approved by the Director. The permittee shall collect and analyze the samples and report the analytical results according to the conditions and the attached Monitoring and Reporting Schedule of this permit. The collection and analysis of the samples shall be conducted by a laboratory acceptable to the Director. If the laboratory is unable to perform the sample collection, the Director may allow the permittee to collect the sample under the direction of the laboratory.

All samples shall be collected, transported, preserved, stored, documented, analyzed, and reported in accordance with approved EPA methods or standards, and all such

activities shall be performed properly and satisfactorily in order to produce valid samples and analytical results. The falsification, fabrication, tampering, or improper handling and management of the samples, chain-of-custody form, or analytical results shall be a violation of this permit.

The method of analysis shall be as stated herein, a current EPA approved method, or a method approved by the Director. The frequency of sample collection and the type of analyses are as described:

Type I Sample:

- (1) Type I sample shall be collected and analyzed at the Director's request.
- (2) Type I sample shall be analyzed for the test parameters listed in Table No. 2 using an EPA approved method listed in the current 40 CFR, Part 136.3, Table IB.

**TABLE NO. 2
TEST PARAMETERS FOR TYPE I SAMPLE**

Parameter
Biochemical Oxygen Demand (BOD ₅)
Field pH
Total Suspended Solids
Turbidity, NTU

- (3) Type I sample shall be collected between the hours of 9 a.m. and 3 p.m.
- (4) The analytical results (Type I) shall be submitted to the DOH and a copy shall be kept on file at the facility. Analytical results are due within 60 days from the sampling date. If applicable, for a reporting schedule that indicates a group-of-months submittal of analytical results, the analytical results from the indicated group of months are due within 60 days from the last sampling date of the group.

Type II Sample:

- (1) Type II sample shall be collected and analyzed at the Director's request.

- (2) Type II sample shall be analyzed for the test parameters listed in Table No. 3. using an EPA approved method listed in the current 40 CFR, Part 136.3, Table IA and Table IB.

**TABLE NO. 3
 TEST PARAMETERS FOR TYPE II SAMPLE**

Parameter
Ammonia (NH ₃ as N)
Dissolved Oxygen
Field Temperature (°C)
Nitrate + Nitrite (as N)
Oil and Grease
Orthophosphate (as P)
Phosphorous, Total
Total Dissolved Solids
Total Kjeldahl Nitrogen (as N)

- (3) Type II sample shall be collected between the hours of 9 a.m. and 3 p.m.
- (4) The analytical results (Type II) shall be submitted to the DOH and a copy shall be kept on file at the facility. Analytical results are due within 60 days from the sampling date.
- (d) As this condition may be applicable to this permit, whether specified now or specified later under a revision to this permit, if a regulatory or action level is exceeded, the permittee shall perform the subsequent relevant actions:

Every exceeding of a Regulatory Level, TCLP related action level or TCLP regulatory level concentration shall prompt an immediate (within seven days from the time of knowledge of the initial analytical results) resampling for and reanalysis of the particular exceeding test parameter. If a Regulatory Level is exceeded, the reanalysis shall be conducted by using the same method. If a TCLP related action level or TCLP regulatory level is exceeded, the reanalysis shall be conducted by using Method 1311: TCLP as described in 40 CFR, Part 261, Appendix II. The permittee shall immediately notify the DOH of every exceeding of a Regulatory Level, TCLP related action level or TCLP regulatory level concentration and shall submit the

original and follow-up analytical results. The DOH may impose additional conditions.

Every exceeding of an Environmental Action Level (EAL) shall be recorded in a perpetual log. The log shall be kept in a table format and shall list the name of the exceeding parameter (analyte), the EAL, the analytical result, the test method, the test method detection limit, the date of the sampling, pertinent sampling or analytical notes, the injection quantity on the day of the sampling, and the possible cause of the exceeding. EAL exceedings shall be chronologically presented, from newest to oldest, in the log. The log shall be submitted to the DOH once every year with the last set of analytical results that require submission within each calendar year. The DOH may require additional recording or reporting requirements to address unforeseen concerns.

- (e) A periodic recorded inspection of the injection well system at least once every week shall be conducted by the permittee. The inspection shall include the recordation of the operational status of the injection well system to detect any deterioration of the injection well system and associated operations that might lead to an injection well failure, and provide the opportunity to correct any occurrence of prohibited discharge activity. The person conducting the periodic inspection shall be knowledgeable of what is unlawful disposal of chemical compounds, petroleum products and other hazardous substances into the injection well. If such activities are encountered, the permittee shall take immediate action to alleviate, correct, clean up, and record such disposal incidents. The recorded inspection including any disposal incidents shall be kept at the facility and be made available for inspection by DOH personnel.

A UIC (regular) Injection Well Periodic Recorded Inspection Form is attached to this permit for reproduction and use.

- (f) A periodic status report shall be completed at least once every 12 months regarding the condition and performance of the injection well system. The status report shall be made by a professional consultant, engineer, or geologist proficient in injection well performance. The status report shall document the condition and performance of the injection well system in accordance with the DOH's guidelines for an injection well status report. Field inspections and observations for the status report shall be performed at least during the last month of the 12-month monitoring period. A Monitoring and Reporting Schedule is attached that designates the last month of each monitoring period. The status report shall be submitted to the DOH for review within 45 days after the end of each designated monitoring period.
- (g) Under applicable conditions, the Director shall have the right to order and direct the permittee to collect and analyze special or unscheduled samples of the injectant or substance in the injection well, or to perform injection well performance or mechanical integrity assessments. Applicable conditions consist of, but are not

limited to, accidental discharges, malicious discharges, and undefined discharges into the injection well, as well as indications that the injection well may be under performance or mechanical integrity deterioration. The permittee is required to maintain records of the sample collection, analysis, and assessment in conformance with Part B.1.(a) of this permit.

2. Accurate, Current, and Representative Information

The submission of records, analytical results, recorded inspections, status reports, and any other reportings as specified and required by this permit shall be truthful, accurate, current, and representative of the activity being monitored within the specified time frame for monitoring. The submission of false, inaccurate, noncurrent, and/or unrepresentative records, results, inspections, reports, and any other required information, or the nonsubmission of the required materials, is a violation of this permit.

3. Reporting of Noncompliance of Injectant Limitations

The permittee shall notify the DOH of any exceedings of or noncompliance with the concentrations or limitations specified in Part A. 2. Injection Limitations and Prohibitions, as determined by the monitoring and analyses specified in this permit. The notification shall consist of a report that shall include the analytical results and an explanation for the exceeding or noncompliance. The report shall be submitted to the DOH within fifteen (15) days of knowledge of the exceeding or noncompliance.

4. Additional Monitoring and Reporting

If the operation of the injection wells is additionally regulated by other pollution control programs, e.g., National Pollutant Discharge Elimination System (NPDES), the adherence to those monitoring and reporting conditions shall not be circumvented by the terms and conditions of this permit.

5. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed, and the calibration and maintenance of applicable facility instrumentation, shall be retained on site for a minimum of three (3) years from the date of procurement and shall be made available for inspection by DOH personnel. This period may be extended by the request of the Director at any time.

6. Anticipated Changes

The permittee shall give notice a minimum of 60 days in advance to the DOH of any planned changes in the facility or facility's activity which may significantly change any operating characteristics or specifications of the injection wells; or which may result in

noncompliance with the permit conditions. Advance notice shall be of sufficient time to allow for the DOH's evaluation of planned changes and revision, if necessary, of any term or condition of this permit. Changes, modifications, revisions or construction on the operating characteristics or specifications of the injection wells shall not be implemented unless approved by the Director.

7. Advance Notification of Change in Operator, Ownership, Control, or Facility Name

In the event of a pending change in operator (permittee), ownership, control, or facility name of the injection wells, the permittee shall report the pending change to the DOH in writing at least 30 days prior to the closing. Until such time that this permit is revoked and/or reissued, the permittee of record shall be responsible for the injection wells and injection well operations, and for any damages resulting from the injection wells and operations.

The permittee of record shall notify the pending operator (the new permittee) and/or owner in adequate time in order for the new permittee to apply to the DOH, using a change-of-operator application, to obtain this permit in coordination with transaction closing. Upon satisfactory completion of the change-of-operator application, this permit may be reissued to the new permittee to operate the injection well system.

8. Twenty-Four Hour Reporting

Under any of the following conditions, an oral report is required within 24 hours from the time the permittee becomes aware of the circumstances:

- (a) Monitoring, or other information, which indicates that the injection activity is causing or could cause an endangerment to a USDW;
- (b) Malfunction of the injection system which causes or could cause fluid migration into, out of, or between geologic formations via the well bore;
- (c) Overflow of the injection well;
- (d) Discharge into the injection well of prohibited chemical compounds, hazardous wastes, or unauthorized substances;
- (e) Impairment of the injection well including and not limited to a collapsed well casing or well bore, well bore obstruction, lost well, or damage to the well resulting in a loss of use; or
- (f) Unsafe working or public conditions resulting from the operation of the injection well.

A written report shall also be submitted within five (5) days of the time the permittee becomes aware of the circumstances. The written report shall contain a description of the incident and its cause, including exact dates and times, and if the incident has not been mitigated, the anticipated length of time that it is expected to continue; also, planned or accomplished measures to reduce, eliminate and prevent the reoccurrence of the incident.

Oral reports during the weekday hours of 7:45 a.m. to 4:30 p.m. shall be made to the Safe Drinking Water Branch at (808) 586-4258 (Honolulu) or call from Big Island the direct toll free number 974-4000, ext. 64258. For on-island oral reports, the Safe Drinking Water Branch's inspector may be notified at (808) 933-0407. For evenings, weekends and holidays, all calls shall be made to (808) 247-2191 (Honolulu). The Director may waive the written report and/or the 5 day reporting time limit on a case-by-case basis if the oral report proves satisfactory in meeting the reporting requirements of the written report.

A record shall be kept by the permittee of all incidences subject to oral reporting under this section. Record keeping shall minimally include the nature and cause of the incident, date, time, duration, name of reporting person, and mitigative action.

9. Definitions

- (a) The "DOH" means the Department of Health, State of Hawaii.
- (b) The "Director" means the Director of Health or a duly authorized representative.
- (c) "Facility or activity" means any UIC "injection well" or any other facility or activity that is subject to regulation under the UIC Program.
- (d) "Fluid" means any material or substance which flows or moves whether in a semisolid, liquid, sludge, gas or any other form or state.
- (e) "Injection Pressure" means the head increase in the well bore with respect to static groundwater level.
- (f) "Injection Well" means a well into which subsurface disposal of fluid or fluids occurs or is intended to occur by means of injection.
- (g) "USDW" means "underground source of drinking water" as defined in HAR, Chapter 11-23.
- (h) "Well" means a bored, drilled or driven shaft, or a dug hole, whose depth is greater than its widest surface dimension.

C. MANAGEMENT CONDITIONS:

1. Change in Discharge

All operation of injection wells authorized herein shall be consistent with the terms and conditions of this permit. The operation of any injection well identified in this permit at volumes or concentrations in excess of that authorized shall constitute a violation of the permit conditions. Any anticipated facility changes including expansions, production increases, or process modifications which would result in new, different, or increased discharges of injectant shall be reported by submission of a UIC application. If such changes are not expected to violate the injection limitations specified in this permit, such changes may be submitted to the DOH in writing instead of a UIC application, whereby the DOH will determine if a UIC application would be necessary. Following the written submission of anticipated changes or the submission of a UIC application, this permit may be revoked or modified to specify and limit any injectant not previously authorized by this permit.

2. Signatory Statement

All reports or information submitted to the DOH pursuant to this permit shall be signed by the permittee.

3. Availability of Reports

All reports prepared in accordance with the conditions of this permit shall be available for public inspection, with the approval of the Director, at appropriate offices of the DOH. Permit applications, permits, and well operation data shall not be considered confidential.

4. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all systems of treatment and control, and related appurtenances, which are installed or used by the permittee to operate the injection wells and to achieve compliance with the conditions of this permit. Proper operation and maintenance include and are not limited to sound engineering principles and practices, effective performance, adequate funding, adequate operator staffing and training, adequate laboratory and process controls, and appropriate quality assurance procedures. Furthermore, effective performance means and is not limited to preventing contamination of a USDW, unintended subsurface fluid migration, injection well overflow, prohibited discharges, loss or excessive sedimentation of the injection well, and creation of unsafe working or public conditions.

5. Permit Reapplication

UIC permit renewal, modification, change of operator, facility name change, or termination (injection well abandonment) requires a permit reapplication. Permit reapplication shall solely be the permittee's responsibility regarding accuracy, completeness, tracking, and timely submittal. The appropriate UIC application form shall be used for the type of permit reapplication being sought. A permit reapplication filing fee, unless exempted, shall be made payable to the State of Hawaii.

A permit reapplication for a UIC permit renewal shall be made at least 180 days prior to the permit's expiration date.

6. Permit Extension

The Director may grant an administrative extension to this permit to authorize the continued operation of the injection wells beyond the permit's expiration date. The administrative extension will at a minimum describe the duration of the administrative extension and the conditions under which the administrative extension is granted.

7. Injection Well Abandonment

Every injection well that is not performing its intended purpose or is determined to be a threat to the groundwater resource shall be abandoned when ordered by the Director.

The permittee who wishes or is ordered to abandon an injection well shall submit an application containing the details of the proposed abandonment at least 60 days before the anticipated start of backfilling work. The DOH will review the application and may specify that the injection well be backfilled in a manner which would not allow the infiltration or movement of fluid into, out of, or throughout the well bore. The DOH will specify abandonment procedures and provide information for the permittee to complete the Abandonment of Injection Well Summary Report upon completion of backfilling. Abandonment procedures shall also comply with any other applicable regulations including those of the Hawaii Department of Land and Natural Resources.

D. GENERAL CONDITIONS

1. Operating Conditions

- (a) No injection well shall be operated, kept, or otherwise utilized without an active UIC permit issued by the DOH.
- (b) No person shall construct, operate, maintain, convert, backfill, seal, abandon or conduct any other injection activity in a manner which allows the movement of fluid containing a contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water rule or may otherwise adversely affect the health of one or more persons.
- (c) The injection wells shall be operated in such a manner that they do not violate any of HAR, Title 11, regulating various aspects of water quality and pollution, and statutes, HRS Chapters 340E and 342D. The rules include:
 - (1) Chapter 11-20, Public Water Systems
 - (2) Chapter 11-54, Water Quality Standards
 - (3) Chapter 11-55, Water Pollution Control
 - (4) Chapter 11-62, Wastewater Systems
- (d) If at any time the DOH learns that an injection well may cause a violation of primary drinking water rules, the Director shall order the permittee to take such actions as may be necessary to prevent the violation, including, where required, cessation of operation of the injection well.
- (e) Notwithstanding any other condition of this section, the Director will issue an order to immediately cease and desist injection upon receipt of factual information that the injectant has caused or is likely to cause imminent and substantial danger to the health of a person or persons due to contamination of a drinking water source.

2. Permit Issuance

A copy of this permit shall be retained by the permittee and shall be made available for inspection by DOH personnel.

The UIC permit is not automatically transferable from the permittee to any other person or entity. Transfer of the UIC permit to another person or entity (a new permittee) may only occur and be valid through the UIC Change-of-Operator application process which must be initiated by the new permittee.

This UIC permit shall be subject to revocation, suspension or revision by the Director if, after notice and opportunity for a contested hearing, it is determined that:

- (a) There is a violation of any term or condition of the UIC permit; or
- (b) The UIC permit was obtained by misrepresentation, or failure to fully disclose all relevant facts; or
- (c) The UIC permit was willfully defaced, altered, forged or falsified; or
- (d) There exists a legal, environmental, or public health condition that requires either a temporary or permanent reduction or elimination of the permitted injection; or
- (e) There is a failure to comply with HAR, Chapter 11-23 or any other applicable rules or laws.

All permit conditions will remain in effect despite the filing of a request by the permittee for a permit revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance.

3. Permit Modification

Any modification, alteration, or change to this permit shall be made only by written supplement or reissuance of the permit by the DOH.

4. New Rules and Regulations

The occurrence of new rules and regulations affecting underground injection, typically occurring as amendments to existing rules and regulations, may require that limitations or conditions within the permit be revised accordingly. Revisions to the permit, depending on the nature of the revision, may occur as a written supplement or an administrative reissuance of the permit, or it may require that the permit be reopened, via an application, before reissuance is accomplished.

Existing limitations and conditions within the permit shall not be grounds for superseding new rules and regulations that would otherwise warrant a revision of the permit. The responsibility for knowing about and understanding new, as well as existing, rules and regulations that affect the permit is upon the permittee.

5. Investigative and/or Mitigative-action Work

Public health or environmental concerns that may arise from the construction, operation, or management of the injection wells may warrant appropriate investigative and/or mitigative-action work under the responsibility and at the expense of the permittee.

Public health or environmental concerns may result from, but are not limited to, relevant complaints, requirements from other regulatory programs, reevaluations of tests, assessments or projections, unforeseen impacts or reactions, or events or projects that change the environmental setting in which the injection wells operate.

The DOH may directly bring concerns to the attention of the permittee for required action. If, however, concerns are brought to the attention of the permittee from either an employee, the public, third-party, or another agency, the permittee shall within 10 days inform the DOH of the concern, upon which investigative and mitigative-action work may transpire and be required. The objective of the investigative and mitigative-action work is to resolve concerns that are valid, relevant, and within the permittee's/facility's responsibility.

6. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

7. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

8. Right of Entry

DOH personnel shall have the right to enter premises on which any injection well system is located; to inspect any equipment, operation, or sampling of any injection well system; to take effluent or injectant samples from any injection well system; and to have access to and copy any record required to be kept pursuant to this permit.

9. Need to Halt or Reduce an Activity Not a Defense

It shall not be a defense for a permittee to claim in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

10. Penalties

It shall be a violation of HAR, Chapter 11-23 for any person, owner or operator of an injection well to construct, operate, maintain or abandon that injection well unless authorized in writing by the Director. It shall also be a violation of HAR, Chapter 11-23 for any permittee to fail to comply with the terms and conditions of this permit including

those relating to inspection, monitoring, record keeping, and reporting. Compliance with a corrective order shall not excuse the basic violation. Any person who violates any provision of HAR, Chapter 11-23 or the terms and conditions of this permit shall be subject to the penalties provided in HRS, Section 340E-8, or HAR, Section 11-23-22.

11. Severability

The conditions of this permit are severable; if any condition of this permit or the application of any condition of this permit to any circumstance is held invalid, the application of such condition to other circumstances and the remainder of this permit shall not be affected thereby.

E. OTHER CONDITIONS:

1. Modifications to Monitoring and Reporting

This permit herein acknowledges that environmental and facility operating conditions affecting the monitoring and reporting conditions of this permit could warrant the DOH's reevaluation of permit conditions in order to address changing concerns and to establish relevant analyses. Modifications to the monitoring and reporting conditions, resulting from reevaluations, shall be approved by the Director before implementation.

2. Sewage Collection System

Connection to a regional sewage collection and treatment system becomes mandatory when such a system is provided, typically by a municipality. The permittee shall inform the DOH of impending connection at least 60 days in advance, and shall also apply for injection well abandonment or modification according to the future use of the injection wells.

UNDERGROUND INJECTION CONTROL (UIC)

UIC Permit No. _____ (daily) INJECTION WELL QUANTITY RECORD (gallons) WELL(s) No. _____

JAN. ____		FEB. ____		MAR. ____		APR. ____		MAY ____		JUN. ____	
1		1		1		1		1		1	
2		2		2		2		2		2	
3		3		3		3		3		3	
4		4		4		4		4		4	
5		5		5		5		5		5	
6		6		6		6		6		6	
7		7		7		7		7		7	
8		8		8		8		8		8	
9		9		9		9		9		9	
10		10		10		10		10		10	
11		11		11		11		11		11	
12		12		12		12		12		12	
13		13		13		13		13		13	
14		14		14		14		14		14	
15		15		15		15		15		15	
16		16		16		16		16		16	
17		17		17		17		17		17	
18		18		18		18		18		18	
19		19		19		19		19		19	
20		20		20		20		20		20	
21		21		21		21		21		21	
22		22		22		22		22		22	
23		23		23		23		23		23	
24		24		24		24		24		24	
25		25		25		25		25		25	
26		26		26		26		26		26	
27		27		27		27		27		27	
28		28		28		28		28		28	
29		29		29		29		29		29	
30				30		30		30		30	
31				31				31			

UNDERGROUND INJECTION CONTROL (UIC)

UIC Permit No. _____ (daily) INJECTION WELL QUANTITY RECORD (gallons) WELL(s) No. _____

JUL. ____		AUG. ____		SEPT. ____		OCT. ____		NOV. ____		DEC. ____	
1		1		1		1		1		1	
2		2		2		2		2		2	
3		3		3		3		3		3	
4		4		4		4		4		4	
5		5		5		5		5		5	
6		6		6		6		6		6	
7		7		7		7		7		7	
8		8		8		8		8		8	
9		9		9		9		9		9	
10		10		10		10		10		10	
11		11		11		11		11		11	
12		12		12		12		12		12	
13		13		13		13		13		13	
14		14		14		14		14		14	
15		15		15		15		15		15	
16		16		16		16		16		16	
17		17		17		17		17		17	
18		18		18		18		18		18	
19		19		19		19		19		19	
20		20		20		20		20		20	
21		21		21		21		21		21	
22		22		22		22		22		22	
23		23		23		23		23		23	
24		24		24		24		24		24	
25		25		25		25		25		25	
26		26		26		26		26		26	
27		27		27		27		27		27	
28		28		28		28		28		28	
29		29		29		29		29		29	
30		30		30		30		30		30	
31		31				31				31	

MONITORING AND REPORTING SCHEDULE

UIC PERMIT NO.:
UH-1356

PERMIT ISSUED:
06/02/2019

PERMIT EXPIRES:
06/01/2024

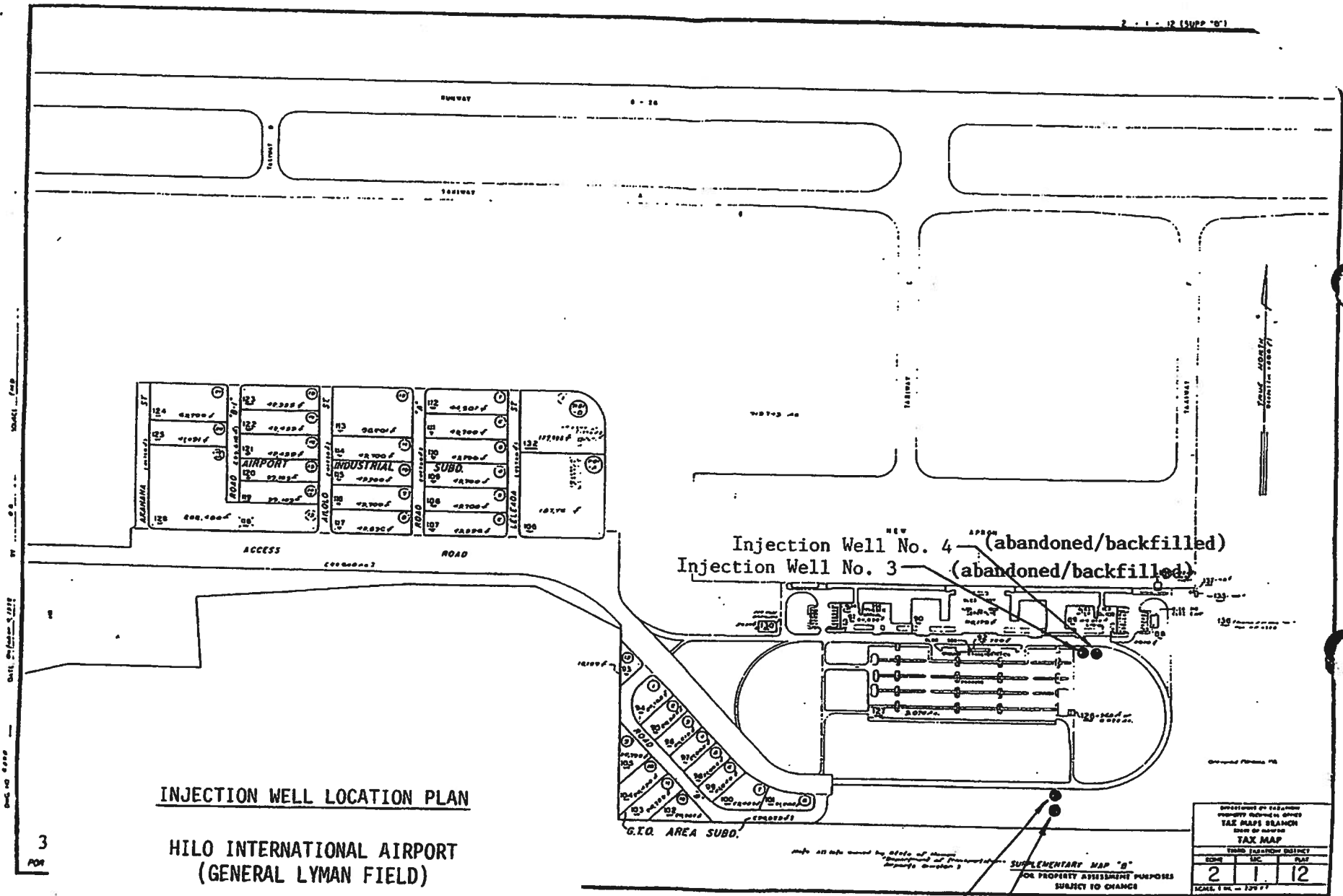
**At the Director's
request

SCHEDULED

COMPLETED

MONTH	TYPE I**	TYPE II**	REPORT OF ANALYTICAL RESULTS *	STATUS REPORT	MONTH	TYPE I**	TYPE II**	REPORT OF ANALYTICAL RESULTS *	STATUS REPORT
06/19					06/22				
07/19					07/22				
08/19					08/22				
09/19					09/22				
10/19					10/22				
11/19					11/22				
12/19					12/22				
01/20					01/23				
02/20					02/23				
03/20					03/23				
04/20					04/23				
05/20					05/23				
06/20					06/23				
07/20					07/23				
08/20					08/23				
09/20					09/23				
10/20					10/23				
11/20					11/23				
12/20					12/23				
01/21					01/24				
02/21					02/24				
03/21					03/24				
04/21					04/24				
05/21					05/24				
06/21					06/24				
07/21									
08/21									
09/21									
10/21									
11/21									
12/21									
01/22									
02/22									
03/22									
04/22									
05/22									

*Submit the original laboratory results and the original chain-of-custodies. When applicable, also submit the prior sampling event's unsubmitted results.



3
FOR

located at Airport Road, Hilo, HI 96720
 UIC Permit No. UH- 1356
 Injection Well Location and No. ● "1"

UIC INJECTION WELL STATUS REPORT GUIDELINES

October 1999

The following guidelines have been established to provide the consulting engineer, geologist, or qualified specialist with information for the preparation of an injection well status report. The primary purpose of the status report is to provide the owner, the operator, and the regulatory agency with information regarding the performance of the injection well and to prevent adverse public health effects from an injection well failure. Every injection well of an injection well system shall be evaluated. Field inspections and observations for the status report shall be performed at least during the last month of a designated monitoring period. A typical designated monitoring period is 6 months. The reporting of data in the status report is preferred using tables and graphs. The status report must be signed by the preparer.

1. The status report shall state the monitoring period for which the report applies. The monitoring period is designated in the Underground Injection Control (UIC) permit issued to an injection well facility.
2. The status report shall contain an evaluation of the flow versus head build-up or injection pressure for every injection well in use. The evaluation should also include, when relevant, correlations using other well-performance parameters that would enhance the evaluation of well performance. Other well-performance parameters include the amount of sedimentation in a well, injectant quality, and duration of well use. Well-performance trends and projections should be sought.
3. The status report shall contain the current field-measured well depth of each injection well. A table shall be used to compile and compare well depth measurements of current and previous measurements taken.
4. The status report shall contain and not be limited to a summary of injection well cleaning events (rehabilitation), a description of the cleaning method, and the results of the cleaning effort.
5. The status report shall include observations of the injection well head and its related piping, valves, gages, weirs and sumps. The observations shall specifically address the operational condition of those features concerning leaks, corrosion, improper joints, malfunctions and missing or inappropriate parts.
6. The status report shall include observations regarding ground surface conditions, ponding water, vegetative growth, and any significant environmental features which are existing in proximity to the injection well. The observations shall account for the hydrologic, geologic, and environmental setting in which the injection well exists.
7. The status report shall include observations or investigative findings of all injection well failures or signs of past failures.
8. The status report shall include a current, dated, and appropriately labeled photograph of each injection well head and any observation of concern.
9. The status report shall contain a discussion about the findings on the injection well, and a list of recommendations to correct deficiencies to prevent injection well failure and prohibited discharges.

Please refer questions about the injection well status report guidelines to the Underground Injection Control section of the Safe Drinking Water Branch at 586-4258 (Honolulu), or call direct toll free from the neighbor islands by entering the appropriate number: Big Island, 974-4000, ext. 64258; Kauai, 274-3141, ext. 64258; Maui, 984-2400, ext. 64258; Molokai and Lanai, 1-800-468-4644, ext. 64258.