UTAH WATER QUALITY BOARD

CLASS V GENERAL PERMIT

UNDERGROUND INJECTION CONTROL (UIC) PROGRAM

UIC Permit Number:  UTU-03-IP-8F54B7F

Box Elder County, Utah

Permit Issued to:

Golden Spike National Historic Site
P.O. Box 897
Brigham City, Utah, 84302
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PART I. AUTHORIZATION TO CONSTRUCT AND INJECT

Pursuant to the Underground Injection Control (UIC) Program Regulations of the Utah Water Quality Board (UWQB) codified in the Utah Administrative Code (UAC) R317-7,

Golden Spike National Historic Site
P.O. Box 897
Brigham City, Utah, 84302

is hereby authorized to operate one (1) existing Class V injection well in Box Elder County, Utah. A general location map is included as Attachment A.

Golden Spike National Historic Site is a National Park Service (NPS) facility commemorating the completion of the Transcontinental Railroad at Promontory, Utah. The injection well pertaining to this permit consists of a floor drain in the maintenance area for servicing and repairing the replica steam locomotives used for exhibition. This floor drain leads to an oil separator, distribution box, and to a leach field for disposal.

Golden Spike National Historic Site (GOSP) is located at Promontory, Utah east of the Great Salt Lake. GOSP lies within a valley area at an elevation of 4918 feet above mean sea level (msl). The Great Salt Lake is located approximately 10 miles west of GOSP. A map showing the area of review including the Class V well is included as Attachment B.

All references to UAC R315-2-3, UAC R317-7, and to Title 40 of the Code of Federal Regulations (40 CFR) are to all regulations that are in effect on the date that this permit becomes effective. The following attachments are incorporated into this permit:

Attachment A ....General Location Map of Golden Spike National Historic Site, Box Elder County.
Attachment B ....Map of the UIC Area of Review including the Class V Injection Well
Attachment C ....Technical Report
Attachment D ....Plan for Plugging and Abandonment of Class V Wells
Attachment E ....Monitoring Parameters and Schedule
Attachment F.....Reporting Tables

This original permit consists of a total of 16 pages plus the above 6 attachments. Further, it is based upon representations made by the permittee and other information contained in the administrative record. It is the responsibility of the permittee to read and understand all provisions of this permit.
This permit shall become effective **July 26, 2011**

This permit and the authorization to inject shall be issued for five (5) years as described in Part III A of this permit unless terminated.

______________________________
Walter L. Baker, P.E.
Executive Secretary
Utah Water Quality Board
PART II. GENERAL PERMIT CONDITIONS

A. EFFECT OF PERMIT

The permittee is allowed to engage in underground injection in accordance with the conditions of this permit. The permittee, authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water (USDW), if the presence of that contaminant may cause a violation of any primary drinking water standard under the Utah Public Drinking Water Administrative Rules, UAC R309-200 and 40 CFR Part 141, or may otherwise adversely affect the health of persons. Any underground injection activity not specifically authorized in this permit is prohibited. Compliance with this permit does not constitute a defense to any action brought under the Utah Water Quality Act (UWQA) Title 19, Chapter 5 Utah Code Annotated 1953, or any other common or statutory law or regulation. Issuance of this permit does not authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Nothing in this permit shall be construed to relieve the permittee of any duties under applicable regulations.

B. SEVERABILITY

The provisions of this permit are severable. If any provision of this permit or the application of any provision of this permit to any circumstance is held to be invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

C. CONFIDENTIALITY

In accordance with Utah Code 19-1-306 (Records of the Department of Environmental Quality), Utah Code 63G-2-309 (Confidentiality Claims), and Utah Code 19-5-113 (DWQ Records and Reports Required by Owners/Operators) any information deemed by the permittee to be entitled to trade secret protection submitted to the UWQB pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "Confidential Business Information" on each page containing such information. If no claim is made at the time of submission, the UWQB may make the information available to the public without further notice. Claims of confidentiality may be denied by the UWQB according to the procedures detailed in Utah Code 63G-2 and the federal Freedom of Information Act (FOIA). Claims of confidentiality for the following information will be denied as per UAC R317-7-9.7:

1. The name and address of the permittee.

2. Information that deals with the existence, absence or level of contaminants in drinking water.
D. CONDITIONS APPLICABLE TO ALL UIC PERMITS (40CFR144.51)

1. Duty to Comply (40CFR144.51(a))

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Safe Drinking Water Act and the UWQA and is grounds for enforcement action, permit termination, revocation and re-issuance, modification, or for denial of a permit renewal application; except that the permittee need not comply with the provisions of this permit to the extent and for the duration such noncompliance is authorized by an emergency permit issued in accordance with UAC R317-7-8 (40 CFR 144.34). Such noncompliance may also be grounds for enforcement action under the Utah Solid and Hazardous Waste Act (USHWA), Title 19, Chapter 6, Utah Code Annotated 1979.

2. Duty to Reapply (40CFR144.51(b))

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The permittee shall submit a complete permit renewal application at least 180 days before this permit expires.

3. Need to Halt or Reduce Activity Not a Defense (40CFR144.51(c))

It shall not be a defense for a permittee 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.

4. Duty to Mitigate (40CFR144.51(d))

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

5. Proper Operation and Maintenance (40CFR144.51(e))

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.

6. Permit Actions (40CFR144.51(f))

The Executive Secretary may, for cause or upon request from the permittee, modify, revoke and re-issue, or terminate this permit in accordance with UAC R317-7-5.4, R317-7-9.6 (40 CFR 144.39 and 144.40), and R317-7-5.8. Also, the permit is subject to minor modifications for cause as specified in UAC R317-7-9.6 (40 CFR 144.41). The filing of a request for a permit modification, revocation
and re-issuance, or termination, or the notification of planned changes, or anticipated noncompliance on the part of the permittee, does not stay the applicability or enforceability of any permit condition.

7. **Property Rights (40CFR144.51(g))**

This permit does not convey any property rights of any sort, or any exclusive privilege.

8. **Duty to Provide Information (40CFR144.51(h))**

The permittee shall furnish to the Executive Secretary within a time specified, any information which the Executive Secretary may request to determine whether cause exists for modifying, revoking and re-issuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Executive Secretary upon request, copies of records required to be kept by this permit.

9. **Inspection and Entry (40CFR144.51(i))**

The permittee shall allow the Executive Secretary, or an authorized representative, upon the presentation of credentials and other documents as may be required by the law, to:

a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

b) Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;

c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the SDWA and / or UWQA any substances or parameters at any location.

10. **Monitoring and Records (40CFR144.51(j))**

a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

b) The permittee shall retain records of all monitoring information, including the following:

   (1) Calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all
reports required by this permit, for a period of at least 3 years from the date of the sample, measurement, or report. This period may be extended by request of the Executive Secretary at any time; and

(2) Records of all data required to complete the permit application form and technical report for this permit and any supplemental information submitted under UAC R317-7-9.2 for a period of at least three years from the date the application was signed. This period may be extended by request of the Executive Secretary at any time.

(3) The nature and composition of all injected fluids until three years after the completion of any plugging and abandonment procedures specified in Part III of this permit. The Executive Secretary may require the owner or operator to deliver the records to the Executive Secretary at the conclusion of the retention period.

c) Records of monitoring information shall include:

(1) The date, exact place, and time of sampling or measurements;
(2) The individual(s) who performed the sampling or measurements;
(3) A precise description of sampling methodology, sample handling or custody, and all quality assurance methods used;
(4) The date(s) analyses were performed;
(5) The names of individual(s) who performed the analyses;
(6) The analytical techniques or methods used; and
(7) The results of such analyses.

11. Signatory Requirements (40CFR144.51(k))

All reports or other information, submitted as required by this permit or requested by the Executive Secretary, shall be signed and certified in accordance with UAC R317-7-9.3 (40 CFR 144.32).

12. Reporting Requirements (40CFR144.51(l))

a) Planned Changes

The permittee shall give written notice to the Executive Secretary, as soon as possible, of any planned physical alterations or additions to the UIC-permitted facility. The UIC-permitted facility includes:

Two mechanics maintenance trenches that flow into a floor drain out to an oil/water separator then to a subsurface fluid distribution system.

b) Anticipated Noncompliance
The permittee shall give advance notice to the Executive Secretary of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

c) Permit Transfers

This permit is not transferable to any person except in accordance with UAC R317-7-9.6 (40 CFR 144.38). The Executive Secretary may require modification or revocation and re-issuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act and/or the UWQA.

d) Monitoring Reports

Quarterly monitoring reports shall be submitted to the Executive Secretary according to the following schedule:

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<th>Report Due On:</th>
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<td>3rd Quarter (July 1 – September 30)</td>
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<td>4th Quarter (October 1 – December 31)</td>
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e) Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule specified in Part III B of this permit shall be submitted no later than 30 days following each schedule date.

f) Endangering Noncompliance Reporting

The permittee shall report to the Executive Secretary any noncompliance that may endanger health or the environment, as follows:

(1) Twenty-four Hour Reporting

Endangering noncompliance information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. Such reports shall include, but not be limited to, the following information:

(i) Any monitoring or other information that indicates any contaminant may cause an endangerment to a USDW, or
(ii) Any noncompliance with a permit condition, or malfunction of the injection system, which may cause fluid migration into or between USDWs.

(2) Five-day Reporting

A written submission shall be provided within five days of the time the permittee becomes aware of the circumstances of the endangering noncompliance. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

g) Other Noncompliance

The permittee shall report all instances of noncompliance not reported under 12d) (Monitoring Reports), 12e) (Compliance Schedule Reports), or 12f) (Endangering Noncompliance Monitoring) of this section in the next Monitoring Report. The reports shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

h) Other Information

When the permittee becomes aware of a failure to submit any relevant facts in the permit application or submitted incorrect information in a permit application or in any report to the Executive Secretary, the permittee shall submit such facts or information within 10 days after becoming aware of the failure to submit relevant facts.

13. Requirements Prior to Commencing Injection (40CFR144.51(m))

For new injection well authorized by individual permit, a new injection well may not commence injection until construction is complete, and

a) The permittee has submitted notice of completion of construction to the Executive Secretary; and

b) Either of the following:

(1) The Executive Secretary has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the permit; or
(2) The permittee has not received notice from the Executive Secretary of his or her intent to inspect or otherwise review the new injection well within 13 days of the date the notice in paragraph 13a)(1) of this section, in which case prior inspection or review is waived and the permittee may commence injection. The Executive Secretary shall include in his notice a reasonable time period in which he shall inspect the well.

For new injection wells authorized by an area permit under UAC R317-7-7(C) (40 CFR 144.33(c)), requirements prior to commencing injection shall be specified in Part III of the permit.

14. Notification Prior to Conversion or Abandonment. (40CFR144.51(n))

The permittee shall notify the Executive Secretary at such times as the permit requires before conversion or abandonment of the well or in the case of area permits before closure of the projects.

15. Plugging and Abandonment Requirements. (40CFR144.51(o))

A Class I and III permit shall include and a Class V permit may include, conditions for developing a plugging and abandonment plan that meets the applicable requirements of UAC R317-7 to ensure that plugging and abandonment of the well will not allow the movement of fluids into or between USDWs. If the plan meets the plugging and abandonment requirements of UAC R317-7, the Executive Secretary shall incorporate it into the permit as a permit condition. Where the review of the plan submitted in the permit application indicates the plan is inadequate, the Executive Secretary may require the applicant to revise the plan, prescribe conditions meeting the requirements of this paragraph, or deny the permit. For purposes of this paragraph, temporary or intermittent cessation of injection operations is not abandonment. Requirements for implementing the approved plugging and abandonment plan are specified in Part III F of this permit.

16. Plugging and Abandonment Report. (40CFR144.51(p))

Requirements for the submittal of a plugging and abandonment report shall be specified in Part III F(5) of this permit.

17. Duty to Establish and Maintain Mechanical Integrity. (40CFR144.51(q))

a) The owner or operator of a Class I or III well permitted under UAC R317-7 shall establish prior to commencing injection or on a schedule determined by the Executive Secretary, and thereafter maintain mechanical integrity as defined in 40CFR146.8.

b) When the Executive Secretary determines that a Class I or III well lacks mechanical integrity pursuant to 40CFR146.8, he shall give written notice
of his determination to the owner or operator. Unless the Executive Secretary requires immediate cessation, the owner or operator shall cease injection into the well within 48 hours of receipt of the Executive Secretary's determination. The Executive Secretary may allow plugging of the well pursuant to the requirements of UAC R317-7 or require the permittee to perform such additional construction, operation, monitoring, reporting and corrective action as is necessary to prevent the movement of fluid into or between USDWs caused by the lack of mechanical integrity. The owner or operator may resume injection upon written notification from the Executive Secretary that the owner or operator has demonstrated mechanical integrity pursuant to 40CFR146.8.

c) The Executive Secretary may allow the owner/operator of a well which lacks mechanical integrity pursuant to 40CFR146.8(a)(1) to continue or resume injection, if the owner or operator has made a satisfactory demonstration that there is no movement of fluid into or between USDWs.

18. Report on Permit Review
Within 30 days after receipt of this permit, the permittee shall report to the Executive Secretary that he has read and is personally familiar with all terms and conditions of this permit.

19. Electronic Reporting
In addition to submittal of the hard copy data, the permittee shall electronically submit required monitoring data in the electronic format specified by the Executive Secretary.

20. Penalties for Violations of Permit Conditions (UCA 19-5-115)
Any person who violates a permit requirement is subject to civil penalties, fines, and other enforcement action under the UWQA and may be subject to such actions pursuant to USHWA. Any person who willfully violates permit conditions may be subject to criminal prosecution.
PART III. SPECIFIC PERMIT CONDITIONS

A. DURATION OF PERMIT (R317-7-9.5 and 40CFR144.36)

This UIC Class V permit shall be issued for five (5) years. The Executive Secretary shall review this permit once every five (5) years beginning on the effective date of the permit to determine whether it should be modified, revoked and re-issued, terminated, or undergo minor modification according to the requirements of 40CFR144.36, 40CFR144.39, 40CFR144.40, and 40CFR144.41 which are incorporated by reference in R317-7-1.

B. SCHEDULE OF COMPLIANCE (40CFR144.53)

GOSP must address each of the following conditions within the time period indicated for each item. Failure to do so may result in the termination of the permit as allowed by 40CFR144.40.

1. Disposable Rags and Offsite Laundering

   Permittee shall use disposable shop rags to assist with the locomotive maintenance needs. For certain instances in which disposable rags are not sufficient, the facility must utilize an offsite laundering service for non-disposable rags and other shop laundry.

   Permittee shall complete the requirements of this permit compliance schedule item within 30 days after the effective date of the permit.

2. UIC BMP Plan

   Permittee shall develop a UIC BMP Plan as required by Part III D(1) of this permit.

   Permittee shall complete the requirements of this permit compliance schedule item within 30 days after the effective date of the permit.

3. Plugging and Abandonment Plan

   Permittee shall develop a detailed and workable plugging and abandonment plan as required by Part III F of this permit.

   Permittee shall complete the requirements of this permit compliance schedule item within 30 days after the effective date of the permit.
C. NON-ENDANGERMENT STANDARD (R317-7-5.3 and 40CFR144.12)

Underground injection activities; including construction, operation, maintenance, conversion, plugging, and abandoning; shall be conducted in such a way as to prevent the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation (Utah Primary Drinking Water Standards R309-200-5), or which may adversely affect the health of persons. Underground injection activities shall not be authorized if they may cause a violation of any Utah Ground Water Quality Rules that may be promulgated by the Utah Water Quality Board.

D. OPERATING REQUIREMENTS

In addition to the non-endangerment standard of Part III C of this permit, the following requirements apply to the operation of the Class V injection wells associated with this permit:

1. UIC BMP Plan

Permittee shall maintain a UIC BMP Plan that addresses pollution control, employee education and training, operations and maintenance, and policy and regulation. These categories encompass a comprehensive range of actions that together will help ensure that the facility is operated and maintained in a manner that meets the requirements of the permit and protects the groundwater.

E. MONITORING, RECORDING, AND REPORTING REQUIREMENTS

1. Injectate Characterization

The permittee shall monitor the nature of injected fluids with sufficient frequency to yield representative data on its characteristics.

a) Analytes for Monitoring

Samples shall be analyzed for the parameters listed in Attachment E of the permit. Utilizing proper chain-of-custody procedures, monitoring samples must be sent to a State-certified lab for analyses. Sample analysis shall comply with applicable analytical methods cited and described in Table IB or 40 CFR 136.3 or in Appendix III of 40 CFR 261 or in certain circumstances by other methods that have been approved by the Executive Secretary.

Field parameters shall be determined immediately prior to collection of all water quality samples and shall include pH, temperature, and specific conductivity.
b) Sampling Schedule
   Samples shall be collected and analyzed according to the sampling schedule in Attachment E of the permit.

2. Injection Volume
   The permittee shall monitor the injection volume semi-monthly, and daily recording of injected and produced fluid volumes as appropriate and note any changes.

3. Reporting
   The permittee shall submit the following in quarterly reports to the Executive Secretary:
   
   a) Results of any required monitoring acquired during the period covered by the quarterly report.

   b) Results of any periodic testing, not included in the monitoring in a), completed during the period covered by the quarterly report.

   c) Summary of reporting required by Part II D(12) of this permit.

F. PLUGGING AND ABANDONMENT REQUIREMENTS (40CFR146.10 and R317-7-10.5)

1. Requirement for Plugging and Abandonment Plan
   
   The permittee shall develop a plugging and abandonment plan (hereafter, the Plan) for the Class V well as allowed by Part II D(15) of this permit. The approved Plan will become a permit condition of this permit and be incorporated into the permit as Attachment D.

2. Notice of Plugging and Abandonment
   
   The permittee shall notify the Executive Secretary in writing no later than 45 days before planned conversion or abandonment of the well(s). This notice shall also include:

   a) Well Condition Report

      The permittee shall provide a report on the current condition of the well in order to update, supplement or complete any information found in the Plan.

   b) Individual Plugging and Abandonment Plan
The permittee shall also submit an individual plugging and abandonment plan for each well to be plugged and abandoned. In coordination with the Well Condition Report, this plan shall modify and supersede the Plan, as necessary, to ensure adequate plugging and abandonment of the well.

The plugging and abandonment of the well shall be subject to prior Executive Secretary approval of the individual plugging and abandonment plan. The Executive Secretary reserves the right to grant conditional approval of any individual plugging and abandonment plan to ensure adequate plugging of a well.

3. Emergency Well Conversion or Plugging and Abandonment

Emergency conversion or abandonment of wells is allowed by this permit, conditional upon the following requirements:

a) The permittee will seek oral approval from the Executive Secretary for emergency well conversion or abandonment no less than 24 hours prior to the emergency action.

b) The permittee will subsequently submit a written request for Executive Secretary approval of emergency well conversion or abandonment, with appropriate justification, within five (5) working days after receiving oral approval.

c) The Executive Secretary reserves the right to modify any oral approval for emergency action, subsequent to review of the written request.

d) Oral or written approval from the Executive Secretary for emergency well conversion or abandonment will not waive or absolve the permittee from its responsibility to comply with the conditions of this permit, including requirements of the Plan.

4. Plugging and Abandonment

The permittee shall plug and abandon the well(s) consistent with 40 CFR 146.10 and 144.89, as provided for in the Plan, and any conditions issued by the Executive Secretary in approval of the individual plugging and abandonment plans required by Part III G(2) of this permit.

5. Plugging and Abandonment (“As-Plugged”) Report

Within 60 days after permanently or temporarily plugging and abandoning a well, the permittee shall submit a Plugging and Abandonment Report to the Executive
Secretary. The report shall be certified as accurate by the person who performed the plugging operation, and shall consist of either:

a) A statement that the well was plugged in accordance with the plan(s) previously submitted to, and all conditions of approval provided by, the Executive Secretary; or

b) If the actual plugging differed from the approved plan(s), a statement and diagrams defining the actual plugging and why the Executive Secretary should approve such deviation. Any deviation from the previously approved individual plugging and abandonment plans required by Part III G (1) of this permit which may endanger waters of the State of Utah, including USDWs, is cause for the Executive Secretary to require the operator to re-plug the well.

6. Inactive or Temporarily Plugged Wells

a) Inactive Wells

After cessation of operation of a well(s) for two years the permittee shall plug and abandon the well(s), unless the permittee requests and receives a variance from this requirement from the Executive Secretary prior to the end of the two year cessation period, based on:

1) A demonstration that the well will be used in the future; and

2) A satisfactory description of actions or procedures that the permittee will take to ensure that the well will not endanger an USDW during the period of temporary abandonment. These actions and procedures shall include compliance with technical requirements applicable to active injection wells unless waived by the Executive Secretary.

b) Temporary Plugging of a Well

Temporary plugging of a well shall consist of:

(1) Submittal of a notice of well conversion.

(2) Submittal of a well condition report and an individual plugging plan, for Executive Secretary approval.

(3) Submittal of an "As-Plugged" Report as required by Part III F(5) of this permit.

c) Temporarily plugged or inactive wells may be reactivated at the discretion of the permittee after:
(1) Submitting a written notification of intent to reactivate to the Executive Secretary, and

(2) Receipt of Executive Secretary written approval to reactivate the well.

G. FINANCIAL RESPONSIBILITY

The federal government is self-insured and therefore meets the requirements of Part G. See United States Fidelity & Guaranty Co. v. United States, 728 F. Supp. 651, 653 (D. Utah 1989). Since the federal government is self-insured, the federal government should be treated as other insurers.

H. ADDITIONAL CONDITIONS (40CFR144.52)

There are no additional permit conditions.