STATE OF UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER QUALITY WATER QUALITY BOARD P.O. BOX 144870 SALT LAKE CITY, UTAH 84114-4870

Modified Ground Water Discharge Permit Permit No. UGW270008

In compliance with the provisions of the Utah Water Quality Act, Title 19, Chapter 5, Utah Code Annotated 1953, as amended,

Sawtooth Caverns, LLC 6965 Union Park Center Suite 270 Midvale, UT 84047

hereafter referred to as the Permittee, is granted a Ground Water Discharge Permit for brine evaporation ponds in Millard County, Utah. The Sawtooth Caverns facility ponds are located at Latitude 39° 28.863' North, Longitude -112° 34.357' West on the following tracts of land (Salt Lake Base and Meridian):

Name	Section	Township	Range	Allotment
Brine Pond 1	30	15 South	6 West	SW1/4
Brine Pond 2	31	15 South	6 West	NW¹/4

This Permit is based on representation 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.

The facility shall be constructed and operated in accordance with	conditions set forth	in the Permit and the
Ground Water Quality Protection Rules in Utah Admin. Code R3	17-6.	
Y		
This Permit shall become effective on	, 2023.	
		2020
This Permit and authorization to operate shall expire at midnight		, 2028.
I I W M I DE		
John K. Mackey, P.E.		
Director		

Utah Division of Water Quality

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PART I BEST AVAILABLE TECHNOLOGY (BAT) STANDARD

A. PERMITTED FACILITIES

The project facilities authorized by this Permit consist of two brine evaporation ponds, Brine Pond 1 and Brine Pond 2, ancillary support facilities, and piping connecting the facility to other cavern forming entities.

B. DESIGN AND CONSTRUCTION

Under authority of the Utah Water Quality Act, Utah Code § 19-5-108(1) and Utah Admin. Code R317-1 *et. seq.*, the authorized facilities have been constructed in accordance with the engineering design plans and specifications for Brine Pond 1 dated May 23, 2011, Brine Pond 2 dated April 6, 2015, and the Construction Permits issued by the Director for each.

Brine pond construction elements include:

- a. Secondary Liner a 60-millimeter (mil) smooth high-density polyethylene (HDPE) liner installed immediately above the compacted soil across the entire operating area.
- b. Leak Detection Layer 130-mil raised studs act as a geomembrane layer and drainage gap between the primary and secondary HDPE liners to route leakage to the leak detection sumps located at low points within the floor of each pond.
- c. Leak Detection Sump Collection pipe and a leak detection sump constructed in the southwest corner of each evaporation pond. Any liquids reporting to the sump can be sampled or returned to the evaporation pond surface.
- d. Primary Liner an 80-mil single sided textured HDPE drain liner with 130-mil raised studs is installed on top of the secondary liner. Specifications for the HDPE liner are also provided in the approved design drawings.

BAT Performance Monitoring – BAT monitoring includes minimum vertical freeboard, maximum allowable leakage rate, and maximum allowable head monitoring for each pond. These performance standards are based on *Action Leakage Rates for Leak Detection Systems* (EPA, January 1992).

- a. Minimum Vertical Freeboard a minimum of 36 inches of vertical freeboard shall be maintained to ensure total containment of the evaporation/surge ponds and peripheral ditches.
- b. Maximum Allowable Leakage Rate based on a pond area of 159 acres, the maximum allowable leakage rate through the primary HDPE liner of each pond is 465 gallons per minute (gpm). This leakage rate is monitored in the leak collection recovery system (LCRS) described in the approved *Sawtooth Brine Pond 1 and 2 Operating Plan* enforceable as Appendix A to this Permit.
- c. Maximum Allowable Head the maximum head that will be allowed in the leak detection sump is 1 foot, equivalent to a leakage rate of 11 gpm in the process

component monitoring system (PCMS). These monitoring criteria are described in the *Sawtooth Brine Pond 1 and 2 Operating Plan* enforceable as Appendix A to this Permit. Any fluids collected in the leak detection sump will be removed and placed back into the pond.

Spill Containment – The Permittee shall design, maintain and construct all pipelines and pumping facilities with a spill containment system that shall:

- a. Prevent any spills or leakage from any contact with the ground surface or ground water.
- b. Convey all spills or leakage to the evaporation pond.

Any spill that does come into contact with the ground surface or ground water that causes pollution or has the potential to cause pollution to waters of the state shall be reported in accordance with Part III.I.

PART II SPECIFIC CONDITIONS

A. GROUND WATER CLASSIFICATION

Based on ground water quality data submitted in the Permit application, ground water at the site is defined as Class II Drinking Water Quality Ground Water.

B. BACKGROUND GROUND WATER QUALITY

Table 1 provides background ground water quality data from wells completed in the aquifers and zones located in the vicinity of the brine pond.

Table 1: Background Ground Water Quality

	8		<u></u>	
Aquifer	Water Table	Water Table	Water Table	Shallow Artesian
Well	IPP MW-06	GA-2	GA-11	Stock Pond
Parameter (mg/l)				
Alkalinity (as CaCO ₃)	249	na	na	7
Chloride	627	93	92	298
Sulfate	207	na	na	158
Total dissolved solids	1600	482	516	1140
Nitrate as N	<10	na	na	<10
Arsenic	0.034	na	na	.156
Calcium	67	na	na	17
Magnesium	49	na	na	13
Potassium	13	na	na	9
Sodium	417	110	134	363
pH (units)	7.75	7.89	8.0	8.3
Conductivity (umhos/cm)	2158	631	675	1930

na = not analyzed; units = mg/L

C. GROUND WATER PROTECTION LEVELS

Table 2 provides ground water protection levels for compliance monitoring wells. These are based on shallow water table aquifer water samples collected from monitoring wells installed at the site.

Table 2: Ground Water Protection Levels

Protection Level (mg/l)
6.5 - 8.5 ^(a)
150
200
750
0.005
1
0.7
10
0.7
0.2
1
1
10

(a) Class II Ground Water Quality Standard

D. COMPLIANCE MONITORING REQUIREMENTS

- 1. Compliance Monitoring Points
 - a. Leak Detection The LCRS and PCMS installed under the evaporation pond liners shall serve as a ground water compliance mechanism and monitoring point.
 - b. Compliance Wells Monitoring wells listed in Appendix B shall serve as ground water compliance monitoring points for the water table aquifer.
 - c. Ground Water Quality Sampling and Analysis Permittee shall conduct all water quality monitoring in accordance with the approved *Ground Water Monitoring Plan* attached as Appendix C to this Permit.
 - d. Protection of Monitoring Wells Permittee shall protect all compliance monitoring wells from damage due to surface vehicular traffic or contamination due to surface spills. Permittee shall maintain all compliance monitoring wells in full operational condition for the life of this Permit. Permittee shall replace any compliance monitoring well that becomes damaged beyond repair or is rendered unusable for any reason within 90 days, or as directed by the Director.

2. Ground Water Compliance Monitoring

- a. Water Level Measurements Permittee shall record water level measurements in each monitoring well prior to any well purging or collection of ground water samples. These measurements will be made from a surveyed permanent reference point clearly demarcated on the top of the well or surface casing. Water level measurements will be made to the nearest 0.01 foot.
- b. Ground Water Quality Samples Permittee shall collect samples of ground water from compliance monitoring wells for laboratory analysis on a quarterly monitoring schedule throughout the term of this Permit.
 - 1) Analysis by Certified Laboratories analysis of all ground water samples shall be performed by laboratories certified by the Unified State Laboratories: Public Health
 - 2) Ground Water Analytical Methods methods used to analyze ground water samples must comply with the following:
 - i) Methods cited in Utah Admin. Code R317-6-6.3L; and
 - ii) Method detection limits are less than Ground Water Protection Levels in Part II.C.
 - 3) Analysis Parameters the following analyses shall be conducted on all ground water samples collected:

- i) Field Parameters pH, temperature, and specific conductance.
- ii) Laboratory Parameters including:Protection Level Parameters in Table 2 of Part II.C.

3. Leak Detection Sump Monitoring

- a. Fluid Measurement Permittee shall monitory the leak detection sumps daily for the presence of fluids.
- b. Sump Fluids if fluids are detected in a leak detection sump, Permittee shall pump sump fluids to the evaporation pond surface to minimize maximum allowable head.

E. NON-COMPLIANCE STATUS

- 1. Probable Out-of-Compliance Status The Permittee shall evaluate results of each ground water sampling event to determine any exceedance of the Ground Water Protection Levels found in Table 2 above. Upon determination that a Ground Water Protection Level has been exceeded, the Permittee shall:
 - a. Immediately re-sample the source(s) found to be in probable out-of-compliance status for laboratory analysis of the exceeded protection level parameter(s). Submit the analytical results thereof, and notify the Director of the probable out-of-compliance status within 30 days of the initial detection.
 - b. Upon exceedance of any one parameter listed in Table 2 for two consecutive sampling events, immediately implement an accelerated schedule of monthly sampling analysis, consistent with the requirements of this Permit. This monthly sampling shall continue for at least two months or until the compliance status can be determined by the Director. Reports of the results of this sampling shall be submitted to the Director as soon as they are available, but not later than 30 days from each date of sampling.
- 2. Out-of-Compliance Status Based on Confirmed Exceedance of Permit Ground Water Protection Levels
 - a. Out-of-Compliance Status shall be defined as follows:
 - For parameters that have been defined as detectable in the background and for which protection levels have been established, out-ofcompliance shall be defined as two consecutive samples exceeding the protection level.
 - b. Notification and Accelerated Monitoring upon determination by the Permittee or the Director, in accordance with Utah Admin. Code R317-6-6.17, that an out-of-compliance status exists, the Permittee shall:

- 1) Verbally notify the Director of the out-of-compliance status or acknowledge Director notice that such a status exists within 24 hours of receipt of data;
- 2) Provide written notice within 5 days of the determination; and
- 3) Continue an accelerated schedule of monthly ground water monitoring for at least two months and continue monthly monitoring until the facility is brought into compliance, as determined by the Director. Permittee may request a return to quarterly sampling if sampling data shows monitoring concentrations have stabilized, as determined and approved by the Director.
- d. Source and Contamination Assessment Study Plan within 30 days after the written notice to the Director required in Part II.E. 2.b.2, above, the Permittee shall submit an assessment study plan and compliance schedule for:
 - 1) Assessment of the source or cause of the contamination, and determination of steps necessary to correct the source.
 - 2) Assessment of the extent of the ground water contamination and any potential dispersion.
 - 3) Evaluation of potential remedial actions to restore and maintain ground water quality, and ensure that the ground water standards will not be exceeded at the compliance monitoring locations.
- 3. Out-of-Compliance Status Based Upon Failure To Maintain BAT In the event that BAT monitoring indicates a violation of any of the construction or performance standards outlined in Part I.B of this Permit, or Table 3 below, the Permittee shall submit to the Director a notification and description of the violation in accordance with Part III.I of this Permit.

Table 3: Maximum Allowable Liner Leakage Rate of Pond 1 and 2

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Monitoring System Component	Maximum Allowable Leakage Rate		
LCRS sump	465 gallons per minute		
PCMS sump	11 gallons per minute		

F. REPORTING REQUIREMENTS

1. Water Monitoring – Permittee shall report monitoring required in Part II.D above according to the schedule in Table 4 below, unless modified by the Director:

Table 4: Compliance Monitoring Report Schedule

	Quarter	Report Due Date		
1 st	(January, February, March)	April 30st		
2 nd	(April, May, June)	July 31st		
3 rd	(July, August, September)	October 31st		
4 th	(October, November, December)	January 31st		

- 2. Water Level Measurements Permittee shall report water level measurements from ground water monitoring wells as measured depth to ground water from the surveyed casing measuring point, and ground water elevations as converted by casing measuring point elevations.
- 3. Ground Water Quality Sampling reporting shall include:
 - a. Field Data Sheets or copies thereof, including the field measurements and other pertinent field data, such as: sampling location name/number, date and time, names of sampling crew, type of sampling: pump or grab, volume of water purged before sampling.
 - b. Laboratory Analytical Results including date sampled, date received; and the results of analysis for each parameter, including: value or concentration, units of measurement, reporting limit (minimum detection limit for the examination), analytical method, and the date of the analysis.
- 4. Daily Leak Detection Monitoring reporting shall include:
 - a. Presence or absence of fluid in the leak detection sump.
 - b. Volume of fluid removed from the leak detection sump.
- 5. Electronic Filing Requirements In addition to submittal of the hard copy data above, Permittee shall electronically submit the required ground water monitoring data in the electronic format specified by the Director. The data may be submitted by e-mail, compact disc, or other approved transmittal mechanism.
- 6. Monitoring Well As-Built Report For each well constructed, Permittee shall submit diagrams and descriptions of the final completion of the monitoring wells. Permittee shall submit the report within 60 days of the date of well completion. The report shall include:
 - a. Casing: depth, diameter, and type of material;
 - b. Screen: length, depth interval, diameter, material type, slot size;
 - c. Sand Pack: depth interval, material type and grain size;
 - d. Annular Seals: depth interval, material type;
 - e. Surface Casing and Cap: depth, diameter, material type, protection measures constructed;
 - f. Elevation and Location: latitude and longitude in hours, minutes and seconds, ground surface elevation, elevation of water level measuring point, latitude and longitude in hours, minutes and seconds; and
 - g. Well construction description, well completion description, results of well pump tests or slug tests.

- 7. Extraction well performance Following the installation and testing of the extraction well network that acts as a hydraulic control, Permittee shall include the following extraction well performance information and analysis in each quarterly report:
 - a. Well pump status for each well, functioning or not;
 - b. Volume of water pumped back into the ponds; and
 - c. Any periods of downtime for the wells and a schedule for repair or a return to re-operability.
- 8. Final Closure Plan In the event that the Permittee decides to discontinue its operations at the facility the Permittee shall notify the Director of such a decision and submit a Final Closure Plan within 180 days. The Final Closure Plan shall be submitted no later than 180 days prior to the closure of the facility. The Permittee shall resubmit Final Closure Plans within 60 days of receipt of written notice of deficiencies therein. Any material changes made to this plan after it receives Director approval shall require approval of the Director.

G. COMPLIANCE SCHEDULE

- 1. DWQ receives documents required under the Permit prepared by several entities including: Newfields, ATC Group Services LLC, GHD Services Inc, and Sawtooth Caverns, LLC. Although the Permittee has the regulatory responsibility for the site, it is not clear which organization, if any, has a comprehensive understanding of the ground water monitoring requirements and ongoing compliance status of the site. Within 30 days of the issuance of the modified Permit, Permittee shall provide an updated organization chart showing the Permit requirements each entity is responsible for and how they interact with each other.
- 2. Within 60 days of the issuance of the modified Permit, Permittee shall submit an updated SACS that combines the original 2022 SACS with the October 2022 update and includes pond level operations data from 2018.
- 3. Within 180 days of the completion of the extraction well pilot testing, Permittee shall submit an operations and maintenance plan for the long term operation of the extraction well system.
- 4. Within 180 days of Director approval of the updated SACS, Permittee shall submit a Corrective Action Plan that meets all requirements in Utah Admin. Code R317-6-6.15, detailing how Sawtooth will use the extraction well network as a hydraulic control and removal system to remediate impacts caused by the two documented releases from the facility.

PART III MONITORING, RECORDING AND REPORTING REQUIREMENTS

A. REPRESENTATIVE SAMPLING

Samples taken in compliance with the monitoring requirements established under Part II shall be representative of the monitored activity.

B. ANALYTICAL PROCEDURES

Water sample analysis must be conducted according to test procedures specified under Utah Admin. Code R317-6-6.3.L, unless other test procedures have been specified in this Permit.

C. PENALTIES FOR TAMPERING

The Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this Permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both.

D. REPORTING OF MONITORING RESULTS

Monitoring results obtained during each reporting period specified in the Permit shall be submitted to the Director, Utah Division of Water Quality at the following address:

State of Utah
Division of Water Quality
P.O. Box 144870
Salt Lake City, Utah 84114-4870
Attention: Ground Water Protection Section
or

Electronic Reporting:

https://deq.utah.gov/water-quality/water-quality-electronic-submissions

E. COMPLIANCE SCHEDULES

Reports of compliance or noncompliance with, or any progress reports on interim and final requirements contained in any Compliance Schedule of this Permit shall be submitted no later than 14 days following each schedule date.

F. ADDITIONAL MONITORING BY THE PERMITTEE

If the Permittee monitors any pollutant more frequently than required by this Permit, using approved test procedures as specified in this Permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted. Such increased frequency shall also be indicated.

G. <u>RECORDS CONTENTS</u>

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. The date(s) and time(s) analyses were performed;

- 4. The individual(s) who performed the analyses;
- 5. The analytical techniques or methods used; and,
- 6. The results of such analyses.

H. RETENTION OF RECORDS

The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and copies of all reports required by this Permit, and records of all data used to complete the application for this Permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

I. TWENTY-FOUR HOUR NOTICE OF NONCOMPLIANCE REPORTING

- 1. The Permittee shall verbally report any noncompliance which may endanger public health or the environment as soon as possible, but no later than 24 hours from the time the Permittee first became aware of the circumstances. The report shall be made to the Utah Department of Environmental Quality 24 hour number, (801) 536-4123, or to the Division of Water Quality, Ground Water Protection Section at (801) 536-4300, during normal business hours (Monday through Friday 8:00 am 5:00 pm Mountain Time).
- 2. A written submission shall also be provided to the Director within five days of the time that the Permittee becomes aware of the circumstances. The written submission shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times;
 - c. The estimated time noncompliance is expected to continue if it has not been corrected; and,
 - d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- 3. Reports shall be submitted to the addresses in Part III.D, Reporting of Monitoring Results.

J. OTHER NONCOMPLIANCE REPORTING

Instances of noncompliance not required to be reported within 24 hours, shall be reported at the time that monitoring reports for Part III.D are submitted.

K. INSPECTION AND ENTRY

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

- 1. 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 the Permit;
- 2. Have access to and copy, at reasonable times, any records that must be kept under

the conditions of this Permit;

- 3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- 4. Sample or monitor at reasonable times, for the purpose of assuring Permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

PART IV COMPLIANCE RESPONSIBILITIES

A. DUTY TO COMPLY

The Permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with Permit requirements.

B. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS

The Act provides that any person who violates a permit condition implementing provisions of the Act is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions is subject to a fine not exceeding \$25,000 per day of violation. Any person convicted under Section 19-5-115(2) of the Act a second time shall be punished by a fine not exceeding \$50,000 per day. Nothing in this Permit shall be construed to relieve the Permittee of the civil or criminal penalties for noncompliance.

C. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE

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.

D. DUTY TO MITIGATE

The Permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this Permit which has a reasonable likelihood of adversely affecting human health or the environment.

E. PROPER OPERATION AND MAINTENANCE

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 also includes adequate laboratory controls and quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a Permittee only when the operation is necessary to achieve compliance with the conditions of the Permit.

PART V GENERAL REQUIREMENTS

A. PLANNED CHANGES

The Permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required when the alteration or addition could significantly change the nature of the facility or increase the quantity of pollutants discharged.

B. ANTICIPATED NONCOMPLIANCE

The Permittee shall give advance notice of any planned changes in the permitted facility or activity which may result in noncompliance with Permit requirements.

C. PERMIT ACTIONS

This Permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any Permit condition.

D. DUTY TO REAPPLY

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 Permit renewal or extension. The application should be submitted at least 180 days before the expiration date of this Permit.

E. DUTY TO PROVIDE INFORMATION

The Permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or to determine compliance with this Permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit.

F. OTHER INFORMATION

When the Permittee becomes aware that it failed to submit any relevant facts in a Permit application, or submitted incorrect information in a Permit application or any report to the Director, it shall promptly submit such facts or information.

G. SIGNATORY REQUIREMENTS

All applications, reports or information submitted to the Director shall be signed and certified.

- 1. All Permit applications shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively.
 - c. For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.

- 2. All reports required by this Permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described above and submitted to the Director; and
 - b. The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
- 3. Changes to Authorization. If an authorization under Part V.G.2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part V.G.2 must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.
- 4. Certification. Any person signing a document under this section shall make the following certification:

"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."

H. PENALTIES FOR FALSIFICATION OF REPORTS

The Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both.

I. AVAILABILITY OF REPORTS

Except for data determined to be confidential by the Permittee, all reports prepared in accordance with the terms of this Permit shall be available for public inspection at the offices of the Director. As required by the Act, permit applications, permits, effluent data, and ground water quality data shall not be considered confidential.

J. PROPERTY RIGHTS

The issuance of this Permit does not convey any property rights of any sort, 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.

K. SEVERABILITY

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

L. Transfers

This Permit may be automatically transferred to a new permittee if:

- 1. The current Permittee notifies the Director at least 30 days in advance of the proposed transfer date;
- 2. The notice includes a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them; and,
- 3. The Director does not notify the existing Permittee and the proposed new permittee of his or her intent to modify, or revoke and reissue the Permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph 2 above.

M. STATE LAWS

Nothing in this Permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, penalties established pursuant to any applicable state law or regulation under authority preserved by Utah Code § 19-5-117.

N. REOPENER PROVISION

This Permit may be reopened and modified (following proper administrative procedures) to include the appropriate limitations and compliance schedule, if necessary, if one or more of the following events occurs:

- 1. If new ground water standards are adopted by the Board, the Permit may be reopened and modified to extend the terms of the Permit or to include pollutants covered by new standards. The Permittee may apply for a variance under the conditions outlined in R317-6-6.4.D;
- 2. If alternative compliance mechanisms are required; or
- 3. If subsequent ground water monitoring data reveals the background water quality values in Part II Table 1 are not accurate.

APPENDIX A SAWTOOTH BRINE POND 1 AND 2 OPERATING PLAN



APPENDIX B COMPLIANCE MONITORING WELLS

Well ID	Sampling	Well Depth	Screen Interval	Latitude	Longitude
	Frequency				
Up gradient					
GA-1	Quarterly	46′	26'-45'	39.4869478°	-112.5628698°
GA-2	Quarterly	47′	26'-45'	39.4899944°	-112.5673108°
GA-10A	Quarterly	40′	18'-28'	39.4831929°	-112.5631906°
GA-11A	Quarterly	40′	19'-39'	39.4793564°	-112.5631720°
GA-12	Quarterly	40′	19'-39'	39.4748837°	-112.5631737°
Down gradient					
GA-9	Quarterly	35'	15′-35′	39.4804255°	-112.5763997°
GA-13	Quarterly	40′	19'-39'	39.4719009°	-112.5680920°
GA-14	Quarterly	40′	19'-39'	39.4716178°	-112.5718129°
GA-15	Quarterly	40′	19'-39'	39.4719868°	-112.5736261°
GA-16	Quarterly	39′	14'-34'	39.4762307°	-112.5735908°
B-P2-1	Quarterly	41'	30'-40'	39.4801986°	-112.5741554°
TW-17	Semi-annual	30′	10′-30′	39.4697972°	-112.5706172°
TW-18	Semi-annual	20′	10'-20'	39.4709406°	-112.5750359°
TW-19	Semi-annual	30′	10'-30'	39.4746962°	-112.5763050°
TW-20	Semi-annual	37′	14'-34'	39.4766302°	-112.5779134°
TW-21	Semi-annual		A 7		
TW-22	Semi-annual				
TW-23	Semi-annual		7		
TW-24	Semi-annual				

APPENDIX C GROUND WATER MONITORING PLAN



APPENDIX D WORK PLAN FOR GROUNDWATER EXTRACTION AND OPERATIONS AND MAINTENANCE PLAN



APPENDIX E INTERFACILITY CONNECTIVITY PLANS AND DRAWINGS

