STATE OF UTAH

DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION OF WATER QUALITY

WATER QUALITY BOARD

PO BOX 144870

SALT LAKE CITY, UTAH 84114-4870

**Ground Water Discharge Permit**

**Permit No. UGW450012**

In compliance with the provisions of the Utah Water Quality Act, Title 19, Chapter 5, Utah Code Ann., the Act,

**US Magnesium LLC**

**236 North 2200 West**

**Salt Lake City, Utah 84116**

hereafter referred to as the Permittee or as US Magnesium, is granted a Ground Water Discharge Permit for wastewater ponds and other facilities related to the production of magnesium metal from brine derived from the Great Salt Lake 15 miles north of Exit 77 of I-80 in Rowley, Tooele County, Utah. The magnesium production facility is located at Latitude 40° 54' 45.0684" North, Longitude 112° 43' 55.1795" West, in the NE ¼ of NW ¼ of Section 15, Township 2 North, Range 8 West (Salt Lake Base and Meridian).

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 Utah Administrative Rules for Ground Water Quality Protection (Utah Admin. Code R317-6).

This permit shall become effective on .

This permit and authorization to operate shall expire at midnight \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Signed this 19th day of December, 2018.

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Erica Gaddis, PhD

Director

DWQ-2018-006041

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# SPECIFIC PERMIT CONDITIONS

## Ground Water Classification

Ground water underlying the site has total dissolved solids (TDS) content greater than 10,000 mg/l, and so qualifies as Class IV, saline ground water. Because of the upward hydraulic gradient observed at the site, shallow ground water may rise to the surface where it supports the ecosystem of the salt flats area, and potentially the Great Salt Lake. Accordingly, shallow ground water also qualifies as Class IC, ecologically important ground water. Shallow ground water will be protected against adverse environmental effects that would occur if it discharged to the surface.

Compliance levels in monitoring wells will not be used in this version of the permit, because it is preferable that wells be located in uncontaminated ground water that could be affected by discharges from US Magnesium’s facilities. When US Magnesium has completed investigations into site conditions and environmental risks posed by contaminants in its wastewater, if groundwater contamination extends beyond the perimeter of the Retrofitted Waste Pond, monitor wells will be located in uncontaminated ground water immediately adjacent to the contaminant plume outside the Retrofitted Waste Pond. After collection of background water quality data, protection levels will be developed for these wells that are protective of the environment, and this permit will be modified to incorporate the protection levels.

Areas of Class III ground water (limited use ground water) may exist in the western part of US Magnesium’s property, upgradient of the permitted facilities.

## Permitted Facilities

Prior to modifications as described herein and in the Statement of Basis, this permit will cover the following existing facilities:

1. The Current Waste Pond is a diked, unlined impoundment of approximately 285 acres located northeast of the US Magnesium plant site. Constructed in 1985, this pond is currently receiving wastewater discharges from a series of unlined ditches that combine into a main ditch;
2. The Old Waste Pond (including all of CERCLA Preliminary Remedial Investigation [PRI] 7), is a diked, unlined area of approximately 800 acres that was constructed in the 1970s and abandoned in 1984 due to being inundated by high water levels in the Great Salt Lake. This pond can receive drainage from the Current Waste Pond.
3. A pipe installed by US Magnesium in November, 2017 to convey wastewater from the Current Waste Pond to the Old Waste Pond. The pipe was installed in order to maintain lower water levels and minimize hydraulic head on the pond dikes and decrease the possibility for wastewater to escape the ponds by underground or surface flow.
4. Any other plant facilities, including plant operations that may cause a discharge of contaminants to ground water.

As US Magnesium completes remedial actions required by other State and Federal agencies, other facilities to contain wastewater will be constructed, primarily a Retrofitted Waste Pond that is partially surrounded by a subsurface barrier to minimize lateral flow of wastewater that has infiltrated the sediments underlying the waste pond. Current plans do not include construction of a subsurface barrier on the upgradient (west-southwest) side of US Magnesium’s facilities, because ground water modeling to date suggests that subsurface wastewater will not overcome the prevailing regional ground water gradient and discharge from this side. However, the southwest side of US Magnesium’s facilities will be further studied during design of the Retrofitted Waste Pond. A low-permeability sedimentary stratum (Deeper Silty Clay) underlying the pond will minimize downward flow. As these new facilities are completed, this permit will be modified to provide appropriate monitoring of the performance of structures intended to contain wastewater. Future permit modifications will be subject to applicable administrative procedures.

## Discharge Minimization Technology

US Magnesium is currently replacing the current unlined ditches that convey wastewater to the Current Waste Pond and Old Waste Pond with pipelines. Organic contaminant concentrations in the wastewater will be minimized by construction and operation of a new filtration plant pursuant to a consent decree currently under negotiation by US Magnesium and EPA.

The existing wastewater ponds will be operated in a manner that minimizes the discharge of wastewater to shallow ground water and surface water. The ponds will be regularly inspected for evidence of wastewater discharge to the surface according to the plan contained in Appendix A, and if any discharge is confirmed, US Magnesium will contain it and prevent it from discharging to surface water as described in the Contingency Plan contained in Appendix A.

## Best Available Technology Standard for New Construction

Any construction, modification, or operation of new waste or wastewater disposal, treatment or storage facilities shall require review of engineering design plans and specifications. All engineering plans or specifications submitted shall demonstrate compliance with all Best Available Technology requirements stipulated by the Utah Ground Water Quality Regulations (Utah Admin. Code R317-6). Upon approval by the DWQ Director, a Construction Permit may be issued and this permit may be re-opened and modified to include provisions for the new facilities, if necessary.

## Monitoring

### Facility Inspection

US Magnesium shall conduct regular inspections of the Current Waste Pond and Old Waste Pond embankments and other facilities according to the procedures outlined in Appendix A. The main purpose for these inspections is to identify sites where wastewater may be escaping from the embankments by underground or surface flow, for later evaluation and remediation if necessary. If visual inspections identify any sites where water is discharging from the embankments or subsurface, the discharges shall be contained and prevented from flowing to other surface water.

### Monitoring of Pond Water Elevations

US Magnesium shall monitor water elevations in the Current Waste Pond and Old Waste Pond weekly. If action level elevations as defined in Part I.G.2 are exceeded, US Magnesium will take actions to prevent exceedance of the maximum water elevations as defined in Part I.G.2. Depending on the relative water elevations between the two ponds, such actions may include installation of additional piping through the dike separating the Current Waste Pond and Old Waste Pond or increasing the capacity of the Current Waste Pond by excavating the non-inundated areas within the Current Waste Pond footprint. Excavated materials will be placed within the Current Waste Pond footprint.

### Ground and Surface Water Monitoring

US Magnesium shall follow the Interim Compliance Monitoring Plan contained in Appendix B. At this time, the Plan will sample nine monitor wells and six surface water locations to determine baseline conditions. For long-term monitoring, the Plan proposes to use five organic compounds to trace any influence of the wastewater on ground or surface water, in lieu of analyzing for the full suite of organic compounds present in the wastewater. At least one sample from each monitoring point will be analyzed for the full suite of compounds to allow for comparison with tracer compound analyses. At least eight samples from each monitoring point will be collected, in three quarters every year. Most of the sampling points are inaccessible in winter. After the background sampling of the monitoring points has been completed, US Magnesium shall sample the surface water sampling points and monitor wells for field parameters and the organic wastewater tracers three times per year (spring, summer and fall). Monitoring shall continue until the new monitoring plan required to be developed in Part I.H.4 is implemented.

All water sampling and analysis required by this permit shall be conducted under the US Magnesium Sampling and Analysis Plan (Appendix C, pages 13-386).

All compliance monitoring wells must be protected from damage or from contamination due to surface spills. They shall be maintained in full operational condition for the life of this permit. Any well that becomes damaged beyond repair or is rendered unusable by any cause shall be replaced by the Permittee within 90 days or as directed by the DWQ Director. All wells that become inaccessible due to new construction or wells that are within the alignment of the new construction, or are otherwise not expected to be used for monitoring, shall be properly plugged and abandoned.

## Reporting Requirements

US Magnesium shall keep reports on facility inspections and pond water level monitoring required in Parts I.E.1 and 2 on file and make them available for inspection by representatives of DWQ during normal business hours.

### Quarterly Reporting

US Magnesium shall submit quarterly reports on monitoring activities required under this permit according to the schedule in Table 1. Reports shall consist of the following:

#### Facility Inspection

#### US Magnesium shall report any occurrences of standing water or discharging ground water adjacent to the north, east and south dikes of the Current and Old Waste Ponds, field analyses made to evaluate whether the water was affected by discharge of wastewater, and, if analyses show the water was affected by a wastewater discharge, efforts to contain it and prevent it from flowing to other surface water. Records of inspections made according to the plan in Appendix A shall be kept and made available to DWQ representatives upon request.

#### Pond Water Elevations

#### US Magnesium shall report quarterly on any exceedances of the action water elevations in either the Current or Old Waste Ponds, and actions being taken to ensure safe water elevations will be maintained.

#### Ground Water Monitoring

#### For quarters in which ground and surface water sampling has taken place, US Magnesium shall report the analytical results and field notes associated with the sampling.

### Tracer Parameter Evaluation Reporting

Once US Magnesium has analyzed one sample from each monitoring point for the full suite of organic parameters and received validated laboratory data, including the proposed trace parameters, it shall submit a report compiling the results and evaluating the possible use of the tracer parameters as a proxy for the full suite of analytes.

### Noncompliance Reporting

If US Magnesium becomes aware of any of the following situations, verbal notice must be provided to the DWQ Director with 24 hours of discovery and written notice within 5 business days. The written notice must contain a plan and timetable for restoring the facility to compliance.

#### Ground or surface water affected by the wastewater is escaping containment and discharging to surface water outside and adjacent to the embankments of the Current Waste Pond and/or Old Waste Pond.

#### Maximum pool elevation in either the Current or Old Waste Ponds has been exceeded.

#### The pipe connecting the Current and Old Waste Ponds is not operating as designed.

**Table 1. Report Due Dates**

|  |  |
| --- | --- |
| **Quarter** | **Report Due Date** |
| First (Jan. Feb. Mar.) | May 15 |
| Second (Apr. May June) | August 15 |
| Third (July Aug. Sept.) | November 15 |
| Fourth (Oct. Nov. Dec.) | February 15 |

## Requirements for Compliance

Compliance with the terms of this permit requires the following:

1. Regular inspections of the pond perimeters are conducted according to the Plan contained in Appendix A, and any indications of discharge of wastewater to the surface outside and adjacent to the Current Waste Pond and/or Old Waste Pond are reported to the DWQ Director and contained and prevented from flowing to surface water as stated in the Interim Monitoring Plan in Appendix B.
2. Ground and surface water sampling is conducted according to the Interim Monitoring Plan in Appendix B and the results reported to DWQ according to permit conditions.
3. Maximum pool elevations are not exceeded. Water surface elevations in the Current Waste Pond must be below 4217.0 feet above mean sea level (amsl) and in the Old Waste Pond below 4207.5 feet amsl. If water elevations exceed action levels of 4216.5 feet amsl in the Current Waste Pond or 4207.4 feet amsl in the Old Waste Pond, US Magnesium shall take appropriate actions to minimize further rise of water levels and report these conditions to the DWQ Director according to Part I.F.1(b). If action level elevations are exceeded, US Magnesium shall take timely actions to prevent exceedance of maximum pool elevations.
4. US Magnesium meets the stated deadlines for construction of the Retrofitted Waste Pond and completion of the permit’s other Compliance Schedule items, or obtains DWQ approval for extending those deadlines.
5. Construction of any new facility or modification of any existing facility must be permitted in accordance with Utah Code Ann. § 19-5-107(3)(b) and Utah Admin. Code R317-1.

## Compliance Schedule

### Human Health and Ecological Risk Assessments

Within two years of permit issuance, US Magnesium shall submit a report to the Director on the risk-based assessment of the human exposure and ecological effects of the contaminants in its wastewater. The risk assessments are expected to meet the requirements for the CERCLA Remedial Investigation/Feasibility Study. The report to the Director must identify concentrations of each contaminant which may have no adverse human health or ecological effects if they were released as surface water at US Magnesium’s site.

### Contamination Investigation

Within two years of permit issuance, US Magnesium shall submit a report that fulfills the requirements of Utah Admin. Code R317-6-6.15D for a Contamination Investigation. Information from this investigation will be used to justify the design of containment structures, develop a site-wide monitoring plan, and an eventual closure plan. The evaluation must address:

#### The extent and severity of existing ground and surface water contamination.

#### Evaluation of actual and potential pathways for contaminant migration, both at the surface and in the subsurface.

#### Evaluation of discharges to ground or surface water at the facilities of the plant site.

#### Investigation of the stratigraphy, permeability, ground water flow, and potential contaminant migration pathways in the future open western side of the subsurface barrier wall.

#### Ground water quality upgradient of the US Magnesium facilities.

#### The potential for ground water flow through the Lower Silty Clay unit.

#### Stability analysis of acidic water impact on barrier wall composition, breakdown of calcium carbonate and also for the short and long term berm and maintenance requirements.

### Final Barrier Wall Design and Justification

Within one year of permit issuance, US Magnesium shall submit final plans and specifications for the proposed initial phase of the Retrofitted Waste Pond, incorporating a subsurface barrier wall designed to minimize discharge of wastewater to ground and surface water. US Magnesium shall submit final plans and specifications for subsequent phases of the Retrofitted Waste Pond each year thereafter through submittal of the final phase design and specifications. US Magnesium must obtain a construction permit for the Retrofitted Waste Pond from the DWQ Director before construction may begin.

The design and anticipated performance of the pond’s barrier wall must be justified with all known data on the hydrogeological properties of the sediments underlying the future Retrofitted Waste Pond obtained in the Contamination Investigation, interim monitoring data obtained to date, other investigations and/or studies, and the ground water flow model, including any appropriate modifications to the model.

### Future Monitoring Plan

Within six months of DWQ approval of the Contamination Investigation report, US Magnesium shall submit a proposed monitoring plan for use after construction of the subsurface barrier wall and the Retrofitted Wastewater Pond. The plan must evaluate the following lines of evidence related to performance of the retrofitted pond:

1. Effectiveness of the subsurface wall as a barrier to ground water flow will be measured at pairs of piezometers located on opposite sides of the wall at locations around its perimeter, by regular measurement of static water levels in each piezometer. The piezometers will be constructed to allow for ground water sampling, if necessary, and routine monitoring will include measuring field pH and field oxidation-reduction potential in each piezometer.

#### Monitoring wells must be placed in locations that will evaluate potential subsurface discharge of wastewater from the retrofitted waste pond, including flow out of the open western side of the Retrofitted Waste Pond and flow along the pond perimeter, particularly in any zones of higher permeability, and downward flow through the Upper Silty Clay unit. Placement of wells or other monitoring points must be based on the best available hydrogeological information obtained in required investigations of this area, and ground water modeling incorporating this information.

### Isotope Analysis Evaluation

US Magnesium will implement a study of the suitability of using stable isotopes to trace influence of wastewater on ground and surface water, as described in Appendix C. Within one year after the beginning of operation of the filtration plant, referenced in Part I.C., that will remove organic compounds from the plant’s waste stream, US Magnesium shall submit a report on the feasibility of replacing analysis of organic compounds with analysis of isotopic composition of water samples as a means to determine permit compliance.

### Contingency Plan

Concurrent with submittal of final plans for the Retrofitted Waste Pond, US Magnesium shall propose conceptual plans which would be followed if monitoring reveals that assumptions made in designing the containment structures turn out to not be true in practice, particularly if wastewater is found to discharge through the Deeper Silty Clay layer or out the open western side of the subsurface barrier wall. Plans must be based on known site conditions, interim monitoring data obtained to date, other investigations and/or studies, and any appropriate modification(s) to the existing ground water model.

### Evaluation of Sediment Acid Neutralizing Potential

Within one years of permit issuance and as part of the justification for the design and specifications, US Magnesium shall re-calculate the acid neutralization potential of the sediments underlying the Retrofitted Waste Pond and pond water balance for the Retrofitted Waste Pond, using calculation methods comparable to those used for the “Geochemical Evaluation of Sediments Beneath the Current Waste Pond” and the “Water Balance Model and Results,” contained in US Magnesium’s December 15, 2017 Ground Water Discharge Permit Application. US Magnesium shall also re-evaluate the acid neutralizing potential of sediments underlying the impounded area using soil sample collection and analysis, and calculation methods comparable to the above-referenced Geochemical Evaluation document before the end of the current permit term.

### Closure Plan

US Magnesium shall submit a final closure plan for the site in compliance with the expected future RCRA Consent Decree and as appropriate for considering eventual NCP compliance and a basis for CERCLA de-listing.

# MONITORING, RECORDING AND REPORTING REQUIREMENTS

## Representative Sampling

Measurements and samples taken in compliance with the monitoring requirements established under Part I shall be representative of the monitored activity.

## Analytical Procedures

Water sample analysis must be conducted according to test procedures specified under Utah Admin. Code R317-6-6.12, unless other test procedures have been specified in this permit.

## 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.

## Reporting of Monitoring Results

Monitoring results obtained for each monitoring period specified in the permit, shall be submitted to the Director, Utah Division of Water Quality at the following address no later than 45 days after the end of the monitoring period:

**Utah Division of Water Quality**

**PO Box 144870**

**Salt Lake City, Utah 84114-4870**

**Attention: Ground Water Protection Program**

## 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.

## 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.

## Records Content

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.
6. The results of such analyses.

## 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 written request from the DWQ Director at any time.

## Twenty-four Hour Notice of Noncompliance and Spill Reporting

1. The permittee shall verbally report any noncompliance, or spills subject to the provisions of UCA 19-5-114, which may endanger public health or the environment as soon as possible, but no later than twenty-four (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 (8:00 am - 5:00 pm Mountain Time).
2. A written submission shall also be provided to the DWQ Director within five days of the time that the permittee becomes aware of the circumstances. The written submission shall contain:

#### A description of the noncompliance and its cause. The period of noncompliance, including exact dates and times.

#### The estimated time noncompliance is expected to continue if it has not been corrected.

#### Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

1. Reports shall be submitted to the addresses in Part II D, Reporting of Monitoring Results.

## 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 II D are submitted.

## 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, during normal business hours, any records that must be kept under the conditions of this permit.
3. Inspect during normal business hours any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
4. Sample or monitor during normal business hours, for the purpose of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

# COMPLIANCE RESPONSIBILITIES

## Duty to Comply

The permittee must 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 re-issuance, 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.

## 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.

## 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.

## 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.

## 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.

# GENERAL REQUIREMENTS

## 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.

## 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.

## 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 re-issuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

## Duty to Re-apply

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.

## 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.

## 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.

## 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:

#### For a corporation: by a responsible corporate officer.

#### For a partnership or sole proprietorship: by a general partner or the proprietor, respectively.

#### For a municipality, State, Federal, or other public agency by either a principal executive officer or ranking elected official.

1. All reports required by the 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:

#### The authorization is made in writing by a person described above and submitted to the Director.

#### The authorization specifies 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.)

1. Changes to Authorization

If an authorization under Part IV 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 IV 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.

1. 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."*

## 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.

## 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.

## 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.

## 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.

## 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.
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.

## 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 Section 19-5-117 of the Act.

## 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 an alternate concentration limit under the conditions outlined in R317-6-6.4(D)
2. If alternate compliance mechanisms are required.
3. If water quality of the facility is significantly worse than represented in the original permit application.

# Appendix A

INSPECTION AND MONITORING PLAN

# Appendix B

INTERIM COMPLIANCE MONITORING PLAN

# Appendix C

ISOTOPE STUDY PLAN