State of Utah

SPENCER J. COX
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DEIDRE HENDERSON
Lieutenant Governor

Department of
Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF WASTE MANAGEMENT
AND RADIATION CONTROL

Douglas J. Hansen
Director

July 29, 2021

Rob Richards, President and General Manager
ROC Fund Landfill Holdings, LLC
11629 South 700 East, Suite #190
Draper, UT 84020

RE: Permit to Operate the ROC-Intermountain Regional MSW Landfill, Utah County
SW327

Dear Mr. Richards:

Enclosed is the approved permit to operate the ROC-Intermountain Regional MSW Landfill, a Class V landfill. The public comment period for the permit began on May 24, 2021 and ended on June 22, 2021. No comments were received.

Periodic inspections of the landfill will be conducted by representatives of the Division of Waste Management and Radiation Control and the Utah County Health Department to assess compliance with permit conditions and applicable Solid Waste Rules.

If you have any questions, please call Matt Sullivan at (801) 536-0241.

Sincerely,

Douglas J. Hansen, Director
Division of Waste Management and Radiation Control

DJH/MBS/wa

Enclosures: ROC-Intermountain Regional MSW Landfill Permit (DSHW-2021-000346)
Attachment 1 - Plan of Operations (DSHW-2021-006570)
Attachment 2 - Closure and Post-Closure Cost Estimates (DSHW-2021-000350)
Statement of Basis (DSHW-2021-009471)

c: Eric Edwards, Health Officer, Utah County Health Department
Tyler Plewe, Deputy Director, Utah County Health Department
Jason Garrett, Environmental Health Director, Utah County Health Department

195 North 1950 West • Salt Lake City, UT
Mailing Address: P.O. Box 144880 • Salt Lake City, UT 84114-4880
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DIVISION OF WASTE MANAGEMENT AND RADIATION CONTROL SOLID WASTE LANDFILL PERMIT

ROC-Intermountain Regional MSW Landfill
CLASS V LANDFILL

Pursuant to the provision of the Utah Solid and Hazardous Waste Act, Title 19, Chapter 6, Part 1, Utah Code Annotated (Utah Code Ann.) (the Act) and the Utah Solid Waste Permitting and Management Rules, R315-301 through 320 of the Utah Administrative Code adopted thereunder, a Permit is issued to:

ROC Fund Landfill Holdings, LLC as owner and operator,
(Permittee)

to own and operate the ROC-Intermountain Regional MSW Landfill, a Class V landfill, located in Utah County, Utah as shown in the Permit Renewal Application that was determined complete on January 8, 2021, tracking number DSHW-2020-015867.

The Permittee is subject to the requirements of R315-301 through 320 of the Utah Administrative Code and the requirements set forth herein.

All references to R315-301 through 320 of the Utah Administrative Code are to regulations that are in effect on the date that this permit becomes effective.

This Permit shall become effective July 29, 2021.

Closure Cost Revision Date: July 29, 2026.

This Permit shall expire at midnight July 28, 2031.

Signed this 29th day of July 2021.

Douglas J. Hansen, Director
Division of Waste Management and Radiation Control

FACILITY OWNER/OPERATOR INFORMATION

LANDFILL NAME:	ROC-Intermountain Regional MSW Landfill
OWNER NAME:	ROC Fund Landfill Holdings, LLC
OWNER ADDRESS:	11629 South 700 East, #190, Draper, Utah 84020
OWNER PHONE NO.:	(801) 403-7651
OPERATOR NAME:	Same as Owner Name
OPERATOR ADDRESS:	Same as Owner Address
OPERATOR PHONE NO.:	Same as Owner Phone No.
TYPE OF PERMIT:	Class V Landfill
FACILITY LOCATION	West half of Section 16, Township 7 South, Range 2 West, SLBM, Utah County. Lat.40° 13' 2.31" Long. 112° 4' 5.89".
PERMIT NUMBER:	1102R1
PERMIT HISTORY	Initial permit issued March 8, 2011. Permit Modification approved in March 2017 for redesign of the landfill floor, leachate collection system, and closure cap. This is the first renewal of the permit and is effective upon the date shown on the signature page.

The term, "Permit," as used in this document is defined in R315-301-2(55) of the Utah Administrative Code. Director as used throughout this permit refers to the Director of the Division of Waste Management and Radiation Control.

The Permit renewal application for ROC-Intermountain Regional MSW Landfill (October 30, 2020, tracking number 2020-015867) was deemed complete on date shown on the signature page of this Permit. All representations made in the attachments of this permit are enforceable under R315-301-5(2) of the Utah Administrative Code. Where differences in wording exist between this Permit and the attachments, the wording of this Permit supersedes that of the attachments.

This Permit consists of the signature page, Facility Owner/Operator Information section, sections I through V and attachments.

The facility as described in this Permit consists of a Class V lined disposal cell, recyclable metals staging area, scale house, and field office.

Compliance with this Permit does not constitute a defense to actions brought under any other local, state, or federal laws. This Permit does not exempt the Permittee from obtaining any other local, state or federal permits or approvals required for the facility operation.

The issuance of this Permit does not convey any property rights, other than the rights inherent in this Permit, in either real or personal property, or any exclusive privileges other than those inherent in this Permit. Nor does this Permit authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations, including zoning ordinances.

The provisions of this Permit are severable. If any provision of this Permit is held invalid for any reason, the remaining provisions shall remain in full force and effect. If the application of any provision of this Permit to any circumstance is held invalid, its application to other circumstances shall not be affected.

By this Permit, the Permittee is subject to the following conditions.

PERMIT REQUIREMENTS

I. GENERAL COMPLIANCE RESPONSIBILITIES

I.A. General Operation

I.A.1. The Permittee shall operate the landfill in accordance with all applicable requirements of R315-301 through 320 of the Utah Administrative Code, for a Class V landfill, that are in effect as of the date of this Permit unless otherwise noted in this Permit. Any permit noncompliance or noncompliance with any applicable portions of Utah Code Ann. § 19-6-101 through 125 and applicable portions of R315-301 through 320 of the Utah Administrative Code constitutes a violation of the Permit or applicable statute or rule and is grounds for appropriate enforcement action, permit revocation, modification, termination, or denial of a permit renewal application.

I.B. Acceptable Waste

I.B.1. This Permit is for the disposal of non-hazardous solid waste that may include:

I.B.1.a Municipal solid waste as defined by R315-301-2(47) of the Utah Administrative Code;

I.B.1.b Commercial solid waste as defined by R315-302-2(14) of the Utah Administrative Code;

I.B.1.c Industrial solid waste as defined by R315-302-2(35) of the Utah Administrative Code;

I.B.1.d Construction/demolition solid waste as defined by R315-301-2(17), of the Utah Administrative Code;

I.B.1.e Special waste as allowed by R315-315 of the Utah Administrative Code and authorized in section II.I of this Permit and limited by this section; and

I.B.1.f Hazardous waste generated by a very small quantity generator as specified in R315-262-14 of the Utah Administrative Code.

I.C. Prohibited Waste

I.C.1. Hazardous waste as defined by R315-261-3 of the Utah Administrative Code except as allowed in permit condition I.B.1.f (Acceptable Waste) above;

I.C.2. Containers larger than household size (five gallons) holding any liquid; non-containerized material containing free liquids; or any waste containing free liquids in containers larger than five gallons;

I.C.3. Any prohibited waste received and accepted for treatment, storage, or disposal at the facility shall constitute a violation of this Permit, of Utah Code Ann. § 19-6-101 through 125 and R315-301 through 320 of the Utah Administrative Code.

I.D. Inspections and Inspection Access

I.D.1. The Permittee shall allow the Director or an authorized representative, or representatives from the local Health Department, to enter at reasonable times and:

I.D.1.a Inspect the landfill or other premises, practices or operations regulated or required under the terms and conditions of this Permit or R315-301 through 320 of the Utah Administrative Code;

I.D.1.b Have access to and copy any records required to be kept under the terms and conditions of this Permit or R315-301 through 320 of the Utah Administrative Code;

I.D.1.c Inspect any loads of waste, treatment facilities or processes, pollution management facilities or processes, or control facilities or processes required under this Permit or regulated under R315-301 through 320 of the Utah Administrative Code; and

I.D.1.d Create a record of any inspection by photographic, video, electronic, or any other reasonable means.

I.E. Noncompliance

I.E.1. If monitoring, inspection, or testing indicates that any permit condition or any applicable rule under R315-301 through 320 of the Utah Administrative Code may be or is being violated, the Permittee shall promptly make corrections to the operation or other activities to bring the facility into compliance with all permit conditions or rules.

I.E.2. In the event of noncompliance with any permit condition or violation of an applicable rule, the Permittee shall promptly take any action reasonably necessary to correct the noncompliance or violation and mitigate any risk to the human health or the environment. Actions may include eliminating the activity causing the noncompliance or violation and containment of any waste or contamination using barriers or access restrictions, placing of warning signs, or permanently closing areas of the facility.

I.E.3. The Permittee shall:

I.E.3.a Document the noncompliance or violation in the daily operating record, on the day the event occurred or the day it was discovered;

I.E.3.b Notify the Director by telephone within 24 hours, or the next business day following documentation of the event; and

I.E.3.c Give written notice of the noncompliance or violation and measures taken to protect human health and the environment within seven days after Director notification.

I.E.4. Within thirty days after the documentation of the event, the Permittee shall submit to the Director a written report describing the nature and extent of the noncompliance or violation and the remedial measures taken or to be taken to protect human health and the environment and to eliminate the noncompliance or violation. Upon receipt and review of the assessment report, the Director may order the Permittee to perform

appropriate remedial measures including development of a site remediation plan for approval by the Director.

I.E.5. In an enforcement action, the Permittee may not claim as a defense that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with R315-301 through 320 of the Utah Administrative Code and this Permit.

I.F. Revocation

I.F.1. This Permit is subject to revocation if the Permittee fails to comply with any condition of the Permit. The Director will notify the Permittee in writing prior to any proposed revocation action and such action shall be subject to all applicable hearing procedures established under R305-7 of the Utah Administrative Code and the Utah Administrative Procedures Act.

I.G. Attachment Incorporation

I.G.1. Attachments to the Permit Application are incorporated by reference into this Permit and are enforceable conditions of this Permit, as are documents incorporated by reference into the attachments. Language in this Permit supersedes any conflicting language in the attachments or documents incorporated into the attachments.

I.H. Design and Construction

I.H.1. The Permittee shall construct any landfill cell, sub-cell, run-on diversion system, runoff containment system, waste treatment facility, leachate handling system, or final cover in accordance with the equivalent design submitted as part of the Permit Application and in accordance with the R315-301 thru 320 of the Utah Administrative Code.

This Permit does not authorize construction of new waste disposal cells or sub-cells at the landfill site. Prior to construction of any landfill cell, sub-cell, engineered control system, waste treatment facility, leachate handling system, or final cover, the Permittee shall submit construction design drawings and a Construction Quality Control and Construction Quality Assurance (CQC/CQA) Plans to the Director for approval. Approved design drawings and CQA/CQC plans will be incorporated into this permit through modification. Buildings do not require approval. The Permittee shall construct any landfill cell, sub-cell, cell liner, engineered control system, waste treatment facility, leachate handling system, and final cover in accordance with the design drawings and CQC/CQA Plans submitted to and approved by the Director.

Subsequent to construction, the Permittee shall notify the Director of completion of construction of any landfill cell, sub-cell, engineered control system, waste treatment facility, or final cover. Landfill cells may not be used for treatment or disposal of waste until all CQC/CQA documents and construction-related documents, including as-built drawings, are approved by the Director and this permit has been modified to reflect these changes. The Permittee shall submit as-built drawings for each

construction event that are stamped and approved by an engineer registered in the State of Utah.

The Permittee shall notify the Director of any proposed incremental closure, placement of any part of the final cover, or placement of the full final cover. Design approval must be received from the Director and this permit modified prior to construction. The design shall be accompanied by a CQC/CQA Plan, for each construction season where incremental or final closure is performed.

A qualified party, independent of the owner and the construction contractor, shall perform the quality assurance function on liner components, cover components, and other testing as required by the approved CQC/CQA Plan. The results shall be submitted to the Director as part of the as-built drawings.

All engineering drawings submitted to the Director shall be stamped and approved by a professional engineer with a current registration in Utah.

If ground water is encountered during excavation of the landfill, the Director shall be notified immediately, and a contingency plan implemented, or alternative construction design developed and submitted for approval.

I.H.2. Run-On Control

I.H.2.a The Permittee shall construct drainage channels and diversions as specified in the Permit Application and shall maintain them at all times to effectively prevent runoff from the surrounding area from entering the landfill.

I.H.3. Equivalent Design

The Permittee proposed a landfill liner design that uses a geosynthetic clay liner in place of the clay component of the liner required by R315-303-3(3)(a)(ii) of the Utah Administrative Code. The proposed liner is approved.

II. LANDFILL OPERATION

II.A. Operations Plan

II.A.1. The Permittee shall keep the Operations Plan included in Attachment 1 on site at the landfill or at the location designated in section II.K of this Permit. The Permittee shall operate the landfill in accordance with the operations plan. If necessary, the Permittee may modify the Operations Plan following the procedures of R315-311-2(1) of the Utah Administrative Code and approved of by the Director. The Permittee shall note any modification to the Operations Plan in the daily operating record.

II.B. Security

II.B.1. The Permittee shall operate the Landfill so that unauthorized entry to the facility is restricted. The Permittee shall:

II.B.2. Lock all facility gates and other access routes during the time the landfill is closed.

II.B.3. Have at least two persons employed by the Permittee at the landfill during all hours that the landfill is open.

II.B.4. Construct all fencing and any other access controls as shown in the Permit Application to prevent access by persons or livestock by other routes.

II.C. Training

II.C.1. The Permittee shall provide training for on-site personnel in landfill operation, including waste load inspection, hazardous waste identification, and personal safety and protection.

II.D. Burning of Waste

II.D.1. Intentional burning of solid waste is prohibited and is a violation of R315-303-4(2)(b) of the Utah Administrative Code.

II.D.2. The Permittee shall extinguish all accidental fires as soon as reasonably possible.

II.E. Daily Cover

II.E.1. The Permittee shall completely cover the solid waste received at the landfill at the end of each working day with a minimum of six inches of earthen material.

II.E.2. The Permittee may use an alternative daily cover material when the material and the application of the alternative daily cover meets the requirements of R315-303-4(4)(b) through (e) of the Utah Administrative Code.

II.F. Ground Water Monitoring

II.F.1. The Permittee shall monitor the ground water underlying the landfill in accordance with the Ground Water Monitoring Plan and the Ground Water Monitoring Quality Assurance/Quality Control Plan contained in the Permit Application. If necessary, the Permittee may modify the Ground Water Monitoring Plan and the Ground Water Monitoring Quality Assurance/Quality Control Plan, provided that the modification meets all of the requirements of R315-301 through 320 of the Utah Administrative Code and is approved by the Director as a minor modification under R315-311-2(1)(a) of the Utah Administrative Code. The Permittee shall note in the daily operating record any modification to the Ground Water Monitoring Plan and the Ground Water Monitoring Quality Assurance/Quality Control Plan. A plan change that the Director finds to be less protective of human health or the environment than the approved plan is a major modification and is subject to the requirements of R315-311 of the Utah Administrative Code.

II.G. Gas Monitoring

II.G.1. The Permittee shall monitor explosive gases at the landfill in accordance with the Gas Monitoring Plan contained in the Permit Application and shall otherwise meet the requirements of R315-303-3(5) of the Utah Administrative Code. If necessary, the Permittee may modify the Gas Monitoring Plan, provided that the modification meets all of the requirements of R315-301 through 320 of the Utah Administrative Code and is approved by the Director as a minor modification under R315-311-2(1) of the Utah Administrative Code. The Permittee shall note any modification to the Gas Monitoring Plan in the daily operating record.

II.G.2. If the concentrations of explosive gases at any of the facility structures, at the property boundary, or beyond the property boundary ever exceed the standards set in R315-303-2(2)(a) of the Utah Administrative Code, the Permittee shall:

II.G.2.a Immediately take all necessary steps to ensure protection of human health and notify the Director;

II.G.2.b Within seven days of detection, place in the daily operating record the explosive gas levels detected and a description of the immediate steps taken to protect human health;

II.G.2.c Implement a remediation plan that meets the requirements of R315-303-3(5)(b) of the Utah Administrative Code; and

II.G.2.d Submit the plan to, and receive approval from, the Director prior to implementation. The Permittee shall operate and maintain an active landfill gas collection system and plan that complies with the Utah Administrative Code, Title R307 and is approved by the Utah Division of Air Quality to collect and treat the gas, and any soil gas monitoring wells located along the facility boundary as necessary to meet the requirements of R315-303-3(5) of the Utah Administrative Code.

II.H. Waste Inspections

II.H.1. The Permittee shall visually inspect incoming waste loads to verify that no wastes other than those allowed by this permit are disposed in the landfill. The Permittee shall conduct a complete waste inspection at a minimum frequency of 1 % of incoming loads, but no less than one complete inspection per day. The Permittee shall select the loads to be inspected on a random basis.

II.H.2. The Permittee shall inspect all loads suspected or known to have one or more containers capable of holding more than five gallons of liquid to ensure that each container is empty.

II.H.3. The Permittee shall inspect all loads that the Permittee suspect may contain a waste not allowed for disposal at the landfill.

II.H.4. The Permittee shall conduct complete random inspections as follows:

II.H.4.a The Permittee shall conduct the random waste inspection at the working face, or an area designated by the Permittee.

II.H.4.b The Permittee shall direct loads subjected to complete inspection to be unloaded at the designated area;

II.H.4.c Loads shall be spread by equipment or by hand tools;

II.H.4.d Personnel trained in hazardous waste recognition and recognition of other unacceptable waste shall conduct a visual inspection of the waste; and

II.H.4.e The personnel conducting the inspection shall record the results of the inspection on a waste inspection form as found in Appendix 1 of this Permit. The Permittee shall place the form in the daily operating record at the end of the operating day.

II.H.4.f The Permittee or the waste transporter shall properly dispose of any waste found that is not acceptable at the facility at an approved disposal site for the waste type and handle the waste according to the rules covering the waste type.

II.I. Disposal of Special Wastes

II.I.1. If a load of incinerator ash is accepted for disposal, the Permittee shall transport it to the place of disposal in such a manner as to prevent leakage or the release of fugitive dust. The Permittee shall completely cover the ash with a minimum of six inches of material, or the Permittee shall use other methods or material, if necessary, to control fugitive dust. The Permittee may use ash for daily cover when its use does not create a human health or environmental hazard.

II.J. Self-Inspections

II.J.1. The Permittee shall inspect the facility to prevent malfunctions and deterioration, operator errors, and discharges that may cause or lead to the release of wastes or contaminated materials to the environment or create a threat to human health or the environment. The Permittee shall complete these general inspections no less than quarterly and shall inspect the following areas: Waste placement, compaction, cover; cell liner; leachate systems; fences and access controls; roads; run-on/run-off controls; ground water monitoring wells; final and intermediate cover; litter controls; and records. The Permittee shall place a record of the inspections in the daily operating record on the day of the inspection. The Permittee shall correct the problems identified in the inspections in a timely manner and document the corrective actions in the daily operating record.

II.K. Recordkeeping

II.K.1. The Permittee shall maintain and keep on file at the field office, a daily operating record and other general records of landfill operation as required by R315-302-2(3) of the Utah Administrative Code. The landfill operator, or other designated personnel, shall date and sign the daily operating record at the end of each operating day. Each record to be kept shall contain the signature of the appropriate operator or personnel and the date signed. The Daily operating record shall consist of the following two types of documents:

II.K.1.a Records related to the daily landfill operation or periodic events including:

II.K.1.a.(i) The number of loads of waste and the weights or estimates of weights or volume of waste received each day of operation and recorded at the end of each operating day;

II.K.1.a.(ii) Major deviations from the approved plan of operation, recorded at the end of the operating day the deviation occurred;

II.K.1.a.(iii) Results of monitoring required by this Permit, recorded in the daily operating record on the day of the event or the day the information is received;

II.K.1.a.(iv) Records of all inspections conducted by the Permittee, results of the inspections, and corrective actions taken, recorded in the record on the day of the event.

II.K.1.b Records of a general nature including:

II.K.1.b.(i) A copy of this Permit, including the Permit Application;

II.K.1.b.(ii) Results of inspections conducted by representatives of the Director, and of representatives of the local Health Department, when forwarded to the Permittee;

II.K.1.b.(iii) Closure and Post-closure care plans; and

II.K.1.b.(iv) Records of employee training.

II.L. Reporting

II.L.1. The Permittee shall prepare and submit to the Director an Annual Report as required by R315-302-2(4) of the Utah Administrative Code. The Annual Report shall include: the period covered by the report, the annual quantity of waste received, an annual update of the financial assurance mechanism, any leachate analysis results, all ground water monitoring results, the statistical analysis of ground water monitoring results, the results of gas monitoring, the quantity of leachate pumped, and all training programs completed.

II.M. Roads

II.M.1. The Permittee shall improve and maintain all access roads within the landfill boundary that are used for transporting waste to the landfill for disposal shall be improved and maintained as necessary to assure safe and reliable all-weather access to the disposal area.

II.N. Litter Control

II.N.1. Litter resulting from operations of the landfill shall be minimized. In addition to the litter control plans found in Attachment 1 of this Permit, the Permittee shall implement the following procedures when high wind conditions are present:

II.N.1.a Reduce the size of the tipping face;

II.N.1.b Reduce the number of vehicles allowed to discharge at the tipping face at one time;

II.N.1.c Orient vehicles to reduce wind effects on unloading and waste compaction;

II.N.1.d Reconfigure tipping face to reduce wind effect;

II.N.1.e Use portable and permanent wind fencing as needed; and

II.N.1.f Should high winds present a situation that the windblown litter cannot be controlled, the Permittee shall cease operations of the landfill until the winds diminish.

III. CLOSURE REQUIREMENTS

III.A. Closure

III.A.1. The Permittee shall install final cover of the landfill as explained in the Permit Application and in Attachment 2 of this permit. The final cover shall meet, at a minimum, the standard design for closure as specified in the R315-303-3(4) of the Utah Administrative Code plus sufficient cover soil or equivalent material to protect the low permeability layer from the effects of frost, desiccation, and root penetration. The Permittee shall submit to the Director a quality assurance plan for construction of the final landfill cover, and approval of the plan shall be received from the Director prior to construction of any part of the final cover at the landfill. A qualified person not affiliated with the Permittee or the construction contractor shall perform permeability testing on the recompacted clay placed as part of the final cover.

III.A.2. Title Recording

III.A.2.a The Permittee shall meet the requirements of R315-302-2(6) of the Utah Administrative Code by recording a notice with the Utah County Recorder as part of the record of title that the property has been used as a landfill. The notice shall include waste disposal locations and types of waste disposed. The Permittee shall provide the Director the notice as recorded.

III.B. Post-Closure Care

III.B.1. The Permittee shall perform post-closure care at the closed landfill in accordance with the Post-Closure Care Plan in the Permit Application and Attachment 2 of this Permit. Post-closure care shall continue until all waste disposal sites at the landfill have stabilized and the finding of R315-302-3(7)(c) of the Utah Administrative Code is made.

III.C. Financial Assurance

III.C.1. The Permittee shall keep in effect and active the currently approved financial assurance mechanism or another approved mechanism that meets the requirements of R315-309 of the Utah Administrative Code and is approved by the Director to cover

the costs of closure and post-closure care at the landfill. The Permittee shall adequately fund and maintain the financial assurance mechanism(s) to provide for the cost of closure and post-closure at any stage or phase or anytime during the life of the landfill or the permit life, whichever is shorter.

III.D. Financial Assurance Annual Update

III.D.1. The Permittee shall submit an annual revision of closure and post-closure costs for inflation and financial assurance funding as required by R315-309-2(2) of the Utah Administrative Code, to the Director as part of the annual report.

III.E. Closure Cost and Post-Closure Cost Revision

III.E.1. The Permittee shall submit a complete revision of the closure and post-closure cost estimates by the Closure Cost Revision Date listed on the signature page of this Permit and any time the facility is expanded, any time a new cell is constructed, or any time a cell is expanded.

IV. ADMINISTRATIVE REQUIREMENTS

IV.A. Permit Modification

IV.A.1. Modifications to this Permit may be made upon application by the Permittee or by the Director following the procedures specified in R315-311-2 of the Utah Administrative Code. The Permittee shall be given written notice of any permit modification initiated by the Director.

IV.B. Permit Transfer

IV.B.1. This Permit may be transferred to a new permittee or new permittees by complying with the permit transfer provisions specified in R315-310-11 of the Utah Administrative Code.

IV.C. Expansion

IV.C.1. The permitted landfill shall operate according to the design and Operation Plan described and explained in this Permit. Any expansion of the current footprint designated in the description contained in the Permit Application, but within the property boundaries designated in the Permit Application, shall require submittal of plans and specifications to the Director. The plans and specifications shall be approved by the Director prior to construction.

IV.C.2. Any expansion of the landfill facility beyond the property boundaries designated in the description contained in the Permit Application shall require submittal of a new permit application in accordance with the requirements of R315-310 of the Utah Administrative Code and Utah Code Annotated § 19-6-108(1)(d) and shall receive all approvals required in Utah Code Ann. § 19-6-108.

IV.C.3. Any addition to the acceptable wastes described in Section I.B shall require a permit modification in accordance with R315-311 of the Utah Administrative Code.

IV.C.4. Acceptance for PCB bulk product waste under R315-315-7(3)(b) of the Utah Administrative Code can only be done after submittal of the required information to the Director and modification of Sections I.B and I.C of this Permit. Acceptance of a broader waste stream may also require a new permit and compliance with the requirements for a new permit under R315-301 through 320 of the Utah Administrative Code and Utah Code Ann. § 19-6-108.

IV.D. Expiration

IV.D.1. If the Permittee desires to continue operating this landfill after the expiration date of this Permit, the Permittee shall submit an application for permit renewal at least six months prior to the expiration date, as shown on the signature (cover) page of this Permit. If the Permittee timely submits a permit renewal application and the permit renewal is not complete by the expiration date, this Permit shall continue in force until renewal is completed or denied.

V. ATTACHMENTS

Attachment 1 - Plan of Operations
Attachment 2 - Closure and Post-Closure Cost Estimates

Attachment 1 – Plan of Operations

INTERMOUNTAIN REGIONAL LANDFILL

PLAN OF OPERATIONS

(HAL Project No.: 373.02.101)

February 2021

INTERMOUNTAIN REGIONAL LANDFILL

PLAN OF OPERATIONS

(HAL Project No.: 373.02.101)

HANSEN ALLEN & LUCE Inc
ENGINEERS

February 2021

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CHAPTER 1 - INTRODUCTION

The purpose of this Plan of Operations is to assist the Landfill Operations Manager and operating personnel in conducting day-to-day operations in a manner that is consistent with the various permit requirements and with the design of the Intermountain Regional Landfill. The Plan describes the following: emergency response procedures, permit conditions, designed facilities at the landfill, equipment, personnel requirements for proper operation, procedures for waste handling, requirements for inspections, monitoring, and reporting, contingency plans and corrective action programs, alternative waste handling, maintenance of landfill monitoring equipment, vector control, waste screening to exclude hazardous wastes and a general training program for landfill operators.

CHAPTER 2 – EMERGENCY RESPONSE INFORMATION

Landfill emergencies include injury, dismemberment, or death of personnel, and fire, explosion, or other catastrophic events. Because of its remote location, the landfill maintains its own fire protection equipment for building and equipment, and personnel are trained in the operation of this equipment. Landfill fires at the surface will be controlled by using soil to smother any fires. A water truck will also be available to supplement fire suppression activities. Because of the landfill's remote location, injured personnel will be transported to medical facilities in landfill vehicles if their condition allows movement. The Operations Manager or his designee may request that ambulance and paramedical personnel meet the transporting vehicle en route to the medical facility.

Table 2-1 below lists the phone numbers to access emergency services for other emergencies. This list is posted directly adjacent to each phone on the facility site in a colorless, protective plastic cover.

TABLE 2-1
EMERGENCY PHONE NUMBERS

Emergency Service Provider	Emergency Phone Number	Direct Phone Number
Fire and Rescue	911	
Hospital	911	
Utah Valley Regional Medical Center		(801) 371 7001
Mountain View Hospital		(801) 465 7190
Utah County Fire Marshal		(801) 370 8885
Sheriff		(801) 375 3601
Office		(801) 403 7651

In the event of any emergency, the personnel in Table 2-2 will also be notified. Landfill personnel will also be provided with 2-way radios for communicating while on site.

TABLE 2-2
LANDFILL CONTACT INFORMATION

Name	Title	Phone
Rob Richards	President	(801) 403-7651
Brian Alba	Operations Manager	(801) 865-2624
Mason Lyman	Scale Attendant	(435) 633-5643
Mike Vano	Operator	(801) 735-8677
Gibby McDougal	Operator	(801) 618-6722

CHAPTER 3 – BACKGROUND INFORMATION

3.1 FIXED LANDFILL FEATURES

The overall site plan consists of three main cells with each containing its own leachate collection system, sump and leachate withdrawal system. Cells 2 and 3 are both similar in design which drain down the center of the cell to a sump located on the far east end of the cell floor. Cell 1 differs because it included the 20-acre area that has already been developed. The design of Cell 1 was altered in 2016 with a sump located on the north side because the previous design placed the floor trajectory toward the east which would have made the excavation much deeper.

The landfill includes a scale house and administrative office. An all-weather access road exists from the entrance to the area of the first landfill cell. Temporary internal access roads are constructed and rerouted as waste is placed and fill grades change. Other ancillary features include perimeter access control fencing and environmental monitoring equipment.

3.2 LANDFILL EQUIPMENT

Table 3-1 presents the equipment currently in use for landfill operations. Compactors and dozers are used to move and compact waste disposed at the landfill and for placing daily and intermediate cover. Dozers and loaders are used for general site operating activities such as road maintenance, embankment construction, and snow removal. The track excavator will be used to excavate landfill units, maintain runoff and run-on controls, and load the haul truck, which will haul materials within the site. The water truck will be used for dust control and the recycling of leachate, if needed. There are several generators on site to provide power to support facilities.

TABLE 3-1
LANDFILL EQUIPMENT

Type	Model
Compactor	CAT 836K (4)
Dozer	CAT D8T
Track Excavator	CAT 349E, Volvo 330B
Haul Truck	CAT 740B (2), CAT 735
Motor Grader	CAT 140M
Loader	CAT 950H
Vibratory Compactor	CAT
Allmand Light Plants	(3)
Whisper Watt Generator	(2)
Water Truck	(2)
Portable Landfill Tipper	(2)
Service Truck/Mechanic Truck	-

CHAPTER 4 – SCHEDULE OF CONSTRUCTION

The Intermountain Regional Landfill consists of a single municipal landfill divided into 3 cells that are constructed in phases. The final phases of Cell 1 will be constructed in the coming years with a shift to phased construction of Cell 2 thereafter. Construction of Cell 3 is not expected to occur for some time.

A Gas Collection and Control System (GCCS) is currently in design and is set to be installed and operational by February 28, 2022. Expansion of the GCCS will occur in phases as waste is placed.

CHAPTER 5 – SOLID WASTE HANDLING

5.1 WASTE DISPOSAL

All waste entering the site will be weighed and weights recorded. Customers will be directed to the working face where the driver will be instructed to discharge the load. Landfill operations personnel will push the solid waste down the working face using a compactor. The waste will be placed in lifts with a loose thickness of 2 to 3 feet. After the waste has been placed in loose lifts, the operator will run the compactor over all parts of the lift at least two times parallel with the slope. These general procedures may change depending on site conditions, current lift height, weather, waste type, etc. Equipment operators will also maintain the working face so that it is as small as practical to allow efficient unloading of transfer trucks and placing and compacting of solid wastes.

5.2 PLACEMENT OF COVER SOILS

Cover soils will be placed over solid wastes to minimize the potential for nuisance conditions, fire, and contact between disease vectors and solid wastes. Nuisance conditions include odor generation and air discharges, blowing of plastic and paper wastes, and other conditions that impair the use of adjoining properties.

At the end of each working day, the landfill operations personnel will cover all solid wastes received during that day with daily cover. The daily cover will consist of a minimum of 6 inches of soil excavated from other parts of the landfill site. Daily cover will be placed to minimize the nuisance, fire, and disease vector potential attributable to each day's waste placement.

Whenever part of the landfill cell will be inactive for an extended period, landfill operations personnel will place an intermediate cover over the inactive part. The intermediate cover will reduce the potential for wind- and water-induced erosion of the cover and will reduce the production of leachate and contact stormwater within the landfill cell. The intermediate cover will consist of 6 additional inches of soil on the daily cover.

CHAPTER 6 – INSPECTIONS, MONITORING, AND REPORTING

6.1 INSPECTIONS

The Operations Manager is responsible for conducting and recording routine inspections of landfill facilities. The schedule for conducting routine inspections is provided in Table 6-1. Forms for recording routine inspections are presented in Attachment A. The Operations Manager is responsible for verifying the completeness of the inspection records on a quarterly basis.

TABLE 6-1
INSPECTIONS

Landfill Facility	Inspection	Frequency
Landfill Cell	Daily and intermediate cover integrity Stormwater and leachate collection (surface ponding)	Daily Daily
Leachate Pond (not constructed yet as of 2021)	Perimeter fence integrity Water depth Liner system integrity Water volume	Daily Weekly Weekly Quarterly
Other Appurtenances	Entrance/main gate integrity Perimeter fence integrity Monitoring well integrity Equipment maintenance Site road integrity Berm integrity	Daily Weekly Monthly Monthly Quarterly Quarterly

6.2 GROUNDWATER MONITORING

The Groundwater Monitoring Plan is included in the Permit Application as Appendix G. As specified in the Utah Department of Environmental Quality (UDEQ) regulations (R315-308-2(4)(a)) and Subtitle D (40 Code of Federal Regulations [CFR] 258 53) regulations, background data for the detection monitoring constituents were established on all monitoring wells. Background data was generated by sampling the monitoring wells on a monthly basis after construction. To provide an acceptable level of confidence in the data, a minimum of eight samples were collected and analyzed to establish background concentrations. The groundwater data will be maintained in a database and used as the foundation for determining statistically significant increases during assessment monitoring, described below.

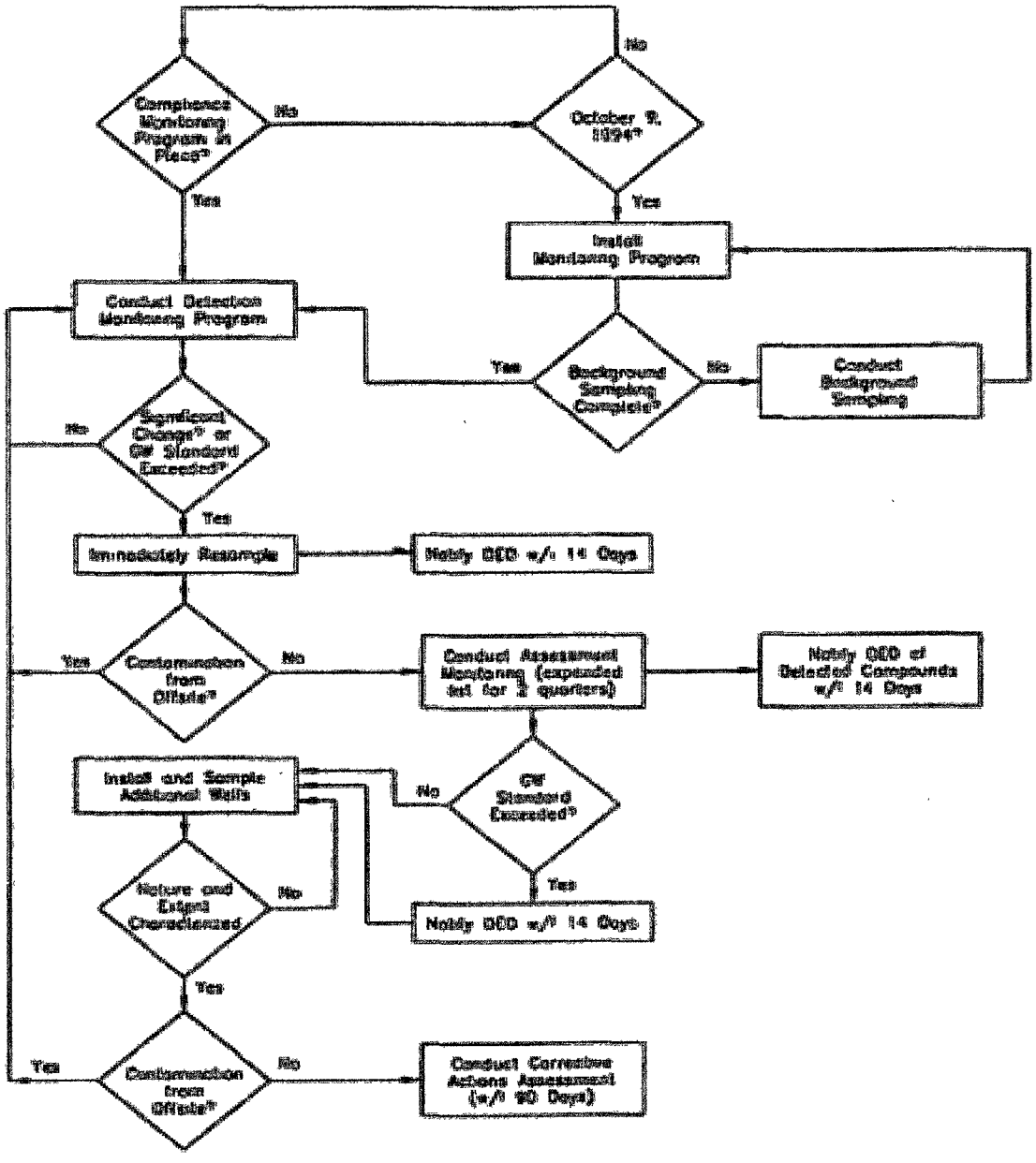
During assessment monitoring, groundwater samples will be collected semiannually. The results will be entered into a database and the data reviewed to determine if a statistically significant increased has occurred. If a statistically significant increase in groundwater contaminants is detected as part of the Detection Monitoring Program, the Intermountain Regional Landfill will initiate the following actions.

- Notify UDEQ in writing within 14 days of obtaining laboratory results. The notification will include identification of the constituents that have shown a statistically significant increase.

- Enter the laboratory results into the operating record for the landfill.
- Immediately resample the groundwater in all wells, or a subset of the wells as specified by the Director, for all constituents listed in R315-308-4. Determine whether a statistically significant change has occurred such that the groundwater protection has been compromised.
- If a statistically significant change has occurred, notify UDEQ within 7 days of receipt of the results of the resampling.

Figure 6-1 below summarizes the requirements imposed on the Intermountain Regional Landfill by UDEQ regulations to define the nature and extent of groundwater contamination and to take corrective action if the source of the groundwater contamination is the landfill.

FIGURE 6-1
UTAH REQUIREMENTS FOR GROUNDWATER MONITORING



6.3 LANDFILL GAS MONITORING

Explosive gas monitoring is completed on a quarterly basis. A handheld multi-gas monitor device is used to monitor explosive gases. Monitoring locations include the entire waste mound with particular attention to the working face and the bottom toe as well as enclosed structures such as the scale house, offices and maintenance shop. If concentrations of explosive gas exceed either the 25% of the lower explosive limit standard for facility structures or the lower explosive limit at the property boundary and beyond, IRL will implement mitigation measures so that levels do not exceed allowable limits.

A Gas Collection and Control System (GCCS) is currently in design and is set to be installed and operational by February 28, 2022. Expansion of the GCCS will occur in phases as waste is placed. The operation, inspection and monitoring of the GCCS will comply with the Title V permit and Utah Division of Air Quality requirements.

CHAPTER 7 – CONTINGENCY AND CORRECTIVE ACTION PLANS

The following sections describe the contingency and corrective action plans that will be implemented if fire, explosion, failure of run-off/run-on structures, release of explosive gases, or contamination of groundwater occurs.

7.1 FIRE

No burning of wastes is planned in the active landfill cell area. Limited burning may be planned, permitted, and accomplished when the construction area for a new landfill cell is cleared and when perimeter fences and drainage channels are maintained. No other burning activities are planned at the Intermountain Regional Landfill.

Two other types of fires - fires in loaded vehicles and fires in disposed wastes – must be anticipated and response activities planned. Each of these is discussed below. The preferred method of fighting fires in the Intermountain Regional Landfill will be smothering the fire with soil. Water will contribute to the formation of leachate and should be used only as a last resort if the fire cannot be smothered.

7.1.1 FIRE IN A LOADED VEHICLE

If a transport vehicle enters the landfill site carrying a burning or smoldering load of waste, landfill operations personnel will take the following actions.

- Direct the vehicle to a designated section of the landfill away from the working face. Direct the driver to deposit his load and to clear the area as quickly as possible.
- Immediately cover the burning waste with enough soil to completely smother the fire. Allow the waste to cool for several days, or longer if necessary.
- If necessary, spray equipment and the transfer vehicle with water to cool the equipment while working the fire. This will not be necessary if the equipment is pushing or dumping soil on the burning wastes in front of the advancing equipment.
- If landfill operations personnel cannot control the fire, contact the County Fire Marshal.
- Notify UDEQ immediately and provide written documentation within 14 days of the fire.

7.1.2 FIRE ON THE WORKING FACE OR BELOW COVER

In the event of a working face fire or a fire below cover, landfill operations personnel will take the following actions.

- Evacuate all nonessential personnel from the area of the fire. Nonessential personnel include transfer truck drivers, laborers/spotters, and visitors.
- To the extent possible, isolate the burning material from other wastes. Use compactor blades and dozers to move the burning materials away from other wastes, this might not be possible if the fire is below cover soil.
- Immediately cover the burning waste with enough soil or water to completely smother the fire. Allow the waste to cool for several days, or longer if necessary.

- If necessary, spray equipment and the transfer vehicle with water to cool the equipment while working the fire. This will not be necessary if the equipment is pushing or dumping soil on the burning wastes in front of the advancing equipment.
- If landfill operations personnel cannot control the fire, contact the County Fire Marshal.
- Notify UDEQ immediately and provide written documentation within 14 days of the fire.

7.2 EXPLOSION

If an explosion occurs at the landfill or in any structure associated with the landfill, landfill operations personnel will take the following actions:

- Immediately evacuate the area surrounding the explosion, including any adjacent buildings. Shut down and abandon any equipment near the explosion that is hot and that could provide an ignition source for additional explosions.
- Account for all personnel Contact the County Fire Marshal and the emergency dispatcher (911). Contact the General Manager
- Keep people from entering the explosion area until emergency response personnel clear the area
- Notify UDEQ immediately and provide written documentation within 14 days of the explosion

7.3 FAILURE OF RON-OFF/RUN-ON STRUCTURES

Failure of run-off structures can allow contaminated water to be released into the environment. Failure of run-on structures can allow stormwater to mingle with waste and become leachate. Neither of these conditions is desirable.

7.3.1 FAILURE OF RUN-OFF STRUCTURES

If a failure of run-off structures is discovered during routine or non-routine inspections, landfill operations personnel will take the following actions.

- As soon as practical, suspend acceptance of wastes at the landfill, if necessary, and inform customers of this suspension
- Use landfill compactor and dozer equipment to construct temporary berms to contain the run-off. Divert the flow of run-off water away from surface water drainage ditches.
- Resume landfilling operations as soon as possible after the run-off is contained. Inspect the temporary berms at least once every 2 hours.
- Assess the impact of the release of run-off as soon as practicable following the event. Assess the need for permanent improvements in temporary berms, or other run-off control structures, as soon as practicable after the run-off is controlled.
- Notify UDEQ immediately and provide written documentation within 14 days of the failure.

7.3.2 FAILURE OF RUN-ON STRUCTURES

Failure of run-on control structures can temporarily overload the leachate collection system but is generally less serious than failure of run-off control structures. If failure of run-on control structures is discovered during routine or non-routine inspections, landfill operations personnel will take the following actions.

- Immediately mobilize landfill compactor or dozer equipment to construct temporary berms, swales, or other structures to temporarily divert surface.
- Water run-on from the active landfill cell. Assess the need to suspend acceptance of waste.
- As soon as practicable, assess the need for permanent run-on control structures
- Notify UDEQ immediately and provide written documentation within 14 days of the failure.

7.4 RELEASE OF EXPLOSIVE GASES

It is unlikely that explosive gas will be released from the Intermountain Region Landfill. However, it is possible that landfill gas concentrations will exceed the regulatory requirements in one or more gas-monitoring locations during the life of the landfill. For the purpose of this contingency plan, a release is defined as the detection of more than 25% of the lower explosive limit (LEL) in a landfill building, or more than 100% LEL at the property boundary. The LEL is 5% by volume of methane in the air. If a release of explosive gases is detected, landfill operations personnel will take the following actions.

- Immediately suspend landfilling operations and determine if landfill personnel or structures are threatened. If so, evacuate personnel immediately and open building doors to allow gases to escape.
- As soon as possible, determine if off-site buildings or other structures are threatened. If so, immediately notify the County Fire Marshal.
- Monitor the release area, and all other landfill gas monitoring locations, until the emergency condition has been eliminated.
- Determine temporary corrective actions as soon as possible, and permanent corrective actions as soon as practicable, after detection of the release.
- Notify UDEQ immediately and provide written documentation within 14 days of the release event.

7.5 GROUNDWATER CONTAMINATION

Contingency and corrective actions plans will be developed after groundwater contamination is detected. Refer to Figure 6-1 for the required workflow.

CHAPTER 8 – CONTROL OF NUISANCE CONDITIONS

8.1 FUGITIVE DUST

Fugitive dust from the working area will be controlled by timely placement of daily, intermediate, or final cover. Haul roads will be maintained by maintaining positive drainage and removing excessive trackout on paved roads within the property boundary and on entrance roads. Sprayed water or a dust palliative will be applied if operators notice that dust is migrating off-site. Disturbed areas not immediately needed for landfill operations will be revegetated if they are causing excessive dust.

8.2 LITTER

The methods to reduce litter in and near the Intermountain Regional Landfill include the following:

- Intermountain Regional Landfill will encourage customers to deliver in covered loads. Potential methods include placing signs along the main road to the landfill, a scaled pricing structure for self-haul customers (uncovered loads will be charged more), and educational campaigns, if needed due to complaints. Commercial vehicles will be required to deliver only covered loads.
- Operators will minimize the working face. This will reduce the waste surface are that is exposed to wind and reduce the potential for winds to transport of the active Cell.
- Operators will placement of daily cover as soon as practical
- Mobile litter control fencing will be placed near the working face to capture as much windblown litter as possible.
- Active cleanup of windblown litter will be conducted within the property boundary as part of the daily operation. Periodically, Intermountain Regional landfill operators will inspect adjacent properties for litter that has migrated offsite.
- Intermountain Regional Landfill will maintain the 6-foot perimeter fencing in good repair and pick-up trash that has collected on the fence.

8.3 RODENT CONTROL

The primary method of rodent control is to eliminate conditions favorable for the reproduction of rodents through properly compacting wastes and placing daily cover. If landfill personnel see signs of rodents, more-frequent application of soils will be considered.

If the primary method of rodent control does not produce satisfactory results, the landfill operators might use poisoning. A poison control program must include the following conditions:

- Poison traps must be set by experienced, professional exterminators.
- Poison traps may be set only within areas of controlled access. This means the trapped area must be within the site's security fencing, and the security gates must be locked for the duration of the poisoning program whenever landfill personnel are not on-site.
- The Occupational Health and Safety Administration (OSHA) requires warning signs of acceptable color and size to be permanently fixed to the outside of the access gate

and fencing, at spacings not to exceed 150 feet, for the duration of the poisoning program. A minimum of one sign per side of the fence is required.

- Landfill personnel must conduct a daily inspection of each poison trap and must notify the professional exterminator if disruptions of any traps are noted.
- The professional exterminator must conduct periodic inspections of the poison traps.
- Written documentation of the poisoning program must be maintained at the maintenance building. The documentation must include the number and exact location(s) of the poison traps, the name of the poison(s) (including both chemical and brand name and a list of ingredients), the quantity of poison contained in each trap, and the medically accepted antidotes or treatments for the poison(s).
- The professional exterminator must submit monthly reports to the Operations Manager documenting the status of the poisoning program. The reports shall include the number and location of traps, the quantities of poison(s) used during the past month, and any changes in the program instituted during the past month.
- Poison supplies shall be stored on-site in a separate, locked, and properly labeled enclosure. Access to the poison shall be restricted to the professional exterminator, the general manager, or his designee.

8.4 BIRD CONTROL

As with rodent control, the primary method of controlling birds is to control the conditions favorable to their existence. The following methods will be used as needed:

- Minimize the size of the working face. This is the most effective method of controlling birds, since it reduces the area available for feeding. More-frequent cover and greater compaction of the waste can also minimize the opportunities for feeding.
- Minimize the accumulation of water in depressions, ponds, or other features near the active working face. The lack of water makes a landfill a less attractive feeding area for birds.
- Use noise or other frightening techniques. These techniques cause a short-term reduction in the number of birds feeding at a landfill.

If the primary methods do not produce satisfactory results, a destructive method of control might need to be implemented. Destructive methods could cause harm or death to some birds, and authorization must be obtained from local officials before implementing a destructive program.

CHAPTER 9 – ALTERNATIVE WASTE-HANDLING PROCEDURES

An all-weather road exists from the site entrance to the active cell. In the semi-arid climate of the Intermountain Regional Landfill site, experience has shown that precipitation has only a minor effect on the operation of the landfill. The owner does not believe that alternate waste-handling plans are necessary for the site to handle wet weather operations.

All reasonable caution and prudence will be exercised to not dispose of wastes during any unreasonable weather conditions. If unforeseen weather conditions occur, the Operations Manager, or his designee, will be informed and will coordinate any changes in operations. The Operations Manager will consider the system-wide requirements in determining what changes, if any, need to be made to operations at the landfill.

CHAPTER 10 – MONITORING PROCEDURES

10.1 GENERAL

The inspection schedule for groundwater monitoring wells and landfill gas monitoring stations is presented in Chapter 6, Inspections, Monitoring, and Reporting. The following section describes the more-detailed inspection and maintenance of these proposed landfill monitoring features.

10.2 GROUNDWATER MONITORING WELLS

All groundwater monitoring wells will be thoroughly inspected during each sampling event. The detailed inspections will note signs of deterioration or failure of the protective steel casing, the concrete pad and bollards, and the polyvinyl chloride (PVC) well casing and screen. If damage is discovered, the nature of the problem will be recorded and reported to the Operations Manager, who will make a decision to repair, replace, or abandon the well. This decision will be documented in the operating record for the landfill, and the required actions will be completed before the next scheduled monitoring event.

The monitoring well locations will be maintained on a routine basis. Weeds will be removed at least every 6 months, about 2 weeks before each scheduled sampling event. During the weed removal, landfill personnel will note any obvious indications that the well has been damaged in order to allow the Operations Manager to assess the situation.

10.3 GAS MONITORING LOCATIONS

Explosive gas monitoring locations generally include strategic areas around the waste mound, including the working face and bottom toe, as well as all structures on the property. The exterior access road around the facility is also monitored.

Gas monitoring locations for the GCCS are not yet established but will be determined once the system is operational. Monitoring locations will also be modified to meet site specific conditions as the landfill and GCCS expands. Regularly scheduled monitoring will occur as well as additional monitoring at installation and start-up of each phase of the GCCS to meet air quality requirements.

CHAPTER 11 – WASTE-SCREENING PROCEDURES

All vehicles entering the site will be stopped at the scale house. Scale attendants will inquire about the contents of the waste entering the site. If a customer is suspected to be carrying unacceptable materials, they will be turned away and directed to an appropriate facility that is permitted to receive the waste materials. After a vehicle leaves the scale, they are directed to the working face. Wastes unloaded at the tipping face will be inspected regularly by landfill operators trained to identify unacceptable materials. All personnel will receive periodic training in detecting wastes that are prohibited for disposal at the landfill. This training will consist of an initial training and annual refresher training. These personnel will conduct routine inspections and random load inspections.

Loads will be selected randomly for a more detailed inspection to detect illegal or inadvertently deposited materials. A location for waste screening will be designated on the active landfill cell. For more detailed random inspections, an unsuspecting collection or transfer vehicle will be directed to a waste screening area near the working face to unload. After being unloaded, waste will be spread with a dozer or compactor, or a 1-to-2-foot thickness, so that the majority of the load can be visually inspected. Information will be recorded on the general contents of the load as well as customer.

The Operations Manager will notify the Director of the Division of Waste Management and Radiation Control with the material type and quantity and the remedial actions taken for unacceptable waste. The Conditional Use Permit (Permit Application Appendix B) specified the following 11 categories of Unacceptable Waste.

- 'Hazardous waste' as defined in 40 CFR part 261, as such part may be amended and expanded from time to time, and in Utah Code Section 19-6-102(9) and the regulations promulgated there under as they may be amended and expanded from time to time,
- Any material that is now or hereafter defined by applicable Federal, State or Local Laws, regulation, or ordinance as radioactive, toxic, hazardous or extremely hazardous waste, excluding household hazardous waste and small quantity generator hazardous waste,
- Vehicle tires in excess of the amount of such tires permitted to be disposed of by applicable Federal, State or Local law, regulation, or ordinance,
- Lead acid batteries,
- Soils contaminated with hazardous, radioactive, or toxic wastes, or hazardous or toxic substances as such terms are defined by applicable Federal or State law or regulations,
- Asbestos, including the asbestiform varieties of serpentine (chrysolite), riebeckite (crocidolite), cummingtonite-grunerite, anthophyllite and actinolite-tremolite,
- Any material which contains asbestos ("ACM"), including asbestos waste from control devices, contaminated clothing, asbestos-waste material, materials used to enclose the work area during asbestos project, or bags or containers that previously contained asbestos,
- Dead animal carcasses in excessive amounts that will attract disease vectors,
- Any soils from coal mine sites, power plants, rail yards, and other industrial development sites and projects which may be removed as part of any voluntary or governmentally mandated environmental remediation plan or program,
- Infectious waste, medical waste, or sharps, and

- Any material whatsoever that the Permit or any Federal, State, or Local law, regulation, or ordinance may prohibit for disposal at the Landfill now or in the future. Any future prohibition shall not operate retroactively, however, as any material previously determined to be Acceptable Waste and disposed of at the Landfill shall not be a breach of updated regulations.

CHAPTER 12 – TRAINING PROGRAM

Landfill personnel will be trained according to the duties required by certain job categories. Training records will be submitted with annual landfill reports. In general personnel will receive one or more of the following:

- 'Hazardous Waste Operations and Emergency Response, pursuant to requirements of the Occupational Safety & Health Administration (OSHA)
- OSHA Safety Training
- First Aid Training
- Solid Waste Association of North America (SWANA) Manager of Landfill Operations (MOLO), which includes waste screening, leachate and gas management, and general information on landfill regulations.

APPENDIX A

Inspection Form

INTERMOUNTAIN REGIONAL LANDFILL

INSPECTION REPORT

Type of Inspection Daily / Weekly / Monthly / Quarterly / Semiannually (circle one)

Performed by _____ **Date** _____

Overall Condition

	Satisfactory Yes / No		Comments or Corrective Action Needed
Structures & Roads			
Fences & Gates[1]	____	____	_____
Signage[1]	____	____	_____
Access Roads[1]	____	____	_____
Run-on Control[1]	____	____	_____
Dust Control[1]	____	____	_____
Landfill Operations			
Litter Control[1]	____	____	_____
Protective Cover[1]	____	____	_____
Daily Cover[1]	____	____	_____
Intermediate Cover[2]	____	____	_____
Final Cover[4]	____	____	_____
Equipment[1]	____	____	_____
Runoff Control[1]	____	____	_____
Active Working Face[1]	____	____	_____
Vector Control[1]	____	____	_____
Leachate System[1]	____	____	_____
Weed Control[4]	____	____	_____
Monitoring Wells[4]	____	____	_____
Leachate Pond[2]	____	____	_____

* Specify the work needed and the timeframe for completion

Key 1 = daily, 2 = weekly, 3 = monthly, 4 = quarterly, 5 = semiannually

Additional Comments

_____

_____

_____

_____

_____

_____

_____

Intermountain Regional Landfill

Load Inspection Form

Material		Present?		Comment
Hazardous Waste/Materials		Y / N		
PCB Materials		Y / N		
Liquid Wastes		Y / N		
Batteries		Y / N		
Flourescent Bulbs		Y / N		
Tires		Y / N		
Aerosal Cans		Y / N		
Oily Rags, Used Sorbent Materials		Y / N		
Appliances, Computer Components		Y / N		
Pesticides		Y / N		
Asbestos Containing Materials		Y / N		
Shingles/Asphalt		Y / N		
Other		Y / N		

Hauler:_____ TK#_____

Origin:_____

Inspector:_____ Date:_____

Signature:_____

Comments: _____

_____

_____

_____

Daily Operational Record

Date	Commercial MSW	Residential Loads	Total Tonnage	Alternate Daily Cover? Yes	Alternate Daily Cover? No	Deviations from Operational Plan?	Initial
			0.00				
			0.00				
			0.00				
			0.00				
			0.00				
			0.00				
Total	**0**	**0**	**0.00**				

Notes:_____

_____

Signature:_____

Attachment 2 - Closure and Post-Closure Cost Estimates

Closure Cost Estimate

	Unit	Unit Price	Quantity (Units)	Total Price	Comments/Assumptions
Engineering and Professional Services					
Topographic Survey Initial	HR	$144.00	10	$1,440.00	HAL estimate
Topographic Survey Final	HR	$144.00	8	$1,152.00	HAL estimate
Site Evaluation	HR	$116.00	8	$928.00	HAL estimate
Boundary Survey for Closure	HR	$144.00	14	$2,016.00	HAL estimate
Construction Plans/Specs	LS	$35,004.46	1	$35,004.46	HAL estimate
Contract Administration Bidding and Award	LS	$3,500.45	1	$3,500.45	HAL estimate
Project Management; Construction Observation and Testing	LS	$58,340.77	1	$58,340.77	HAL estimate
Quality Control Testing (Monitor Well Consultant Costs)	LS	$7,000.89	1	$7,000.89	HAL estimate
Administrative Costs for the Certification of Final Cover and Closure Notice	LS	$23,336.31	1	$23,336.31	HAL estimate
Other Environmental Permit Costs	LS	$17,502.23	1	$17,502.23	HAL estimate
Engineering and Professional Services Subtotal				$150,221.10	
Subtotal				$150,221.10	
10% Contingency				$15,022.11	
Closure Engineering and Professional Services Subtotal				$165,243.21	

Construction of Cover System					
Soil Grading	SY	$0.21	213,818	$44,901.73	HAL estimate
HDPE Liner (60 mil FML)	SF	$0.48	1,924,360	$923,692.80	Based on recent pricing from Utah landfill project
Final Cover (1.5' Thick)*	CY	$1.71	106,909	$182,814.20	Based on recent pricing from IRL project (HADCO)
Topsoil (6 inches Thick)*	CY	$1.71	42,764	$73,125.68	Based on recent pricing from IRL project (HADCO)
Dust Control and Watering	LS	$11,443.77	1	$11,443.77	HAL estimate
Drainage Ditches	LF	$3.00	5,000	$15,000.00	HAL estimate
Temporary Drainage Control	LS	$11,555.96	1	$11,555.96	HAL estimate
Cover System Subtotal				$1,262,534.14	
* Assumes topsoil and Final cover may be constructed with soils found at the landfill site.					
Subtotal				$1,262,534.14	
10% Contingency				$126,253.41	
Closure Total (Contruction plus Engineering and Professional Services)				**$1,554,100.00**	

Post-Closure Cost Estimate

	Unit	Unit Price	Quantity (Units)	Total Price	Comments/Assumptions
Engineering and Professional Costs					
Post-Closure Plan Revisions	LS	$11,668.15	1	$11,668.15	HAL estimate
Site Inspection and Record keeping (annual)	EA	$3,500.45	30	$105,013.38	HAL estimate
Engineering and Professional Costs Subtotal				$116,681.53	
Groundwater Monitoring					
Sample Collection	EA	$750.00	60	$45,000.00	Assumed 6 wells upon closing
Sample Analysis	EA	$2,200.00	60	$132,000.00	Based on cost quote from a laboratory
Sample Reporting	EA	$1,800.00	60	$108,000.00	Assumed based on 6 wells
Close out wells	LF	$20.00	300	$6,000.00	HAL estimate
Groundwater Monitoring Subtotal				$291,000.00	
Leachate Collection System Maintenance					
General maintenance	LS	$5,452.41	6	$32,714.45	HAL estimate
Clean Lines	LS	$5,452.41	6	$32,714.45	HAL estimate
Leachate Collection System Maintenance Subtotal				$65,428.90	
Maintain the Integrity of Final Cover					
Seed and Seeding/Erosion Control	SY	$8.47	14,520	$122,980.92	Assume 3 acres will need to be replaced over time
Cover System Maintenance Subtotal				$122,980.92	
Subtotal				$596,091.34	
10% Contingency				$59,609.13	
Post-Closure Total				**$655,800.00**	

Total Closure and Post-Closure Costs Baseline **$2,209,900.00**

Notes/Assumptions:

1. Estimate assumes closure of current open areas.
2. Estimate does not include active gas collection system.
3. Assumes cover materials are available on-site.
4. Assumes topsoil is available on-site.

Statement of Basis
ROC–Intermountain Regional MSW Landfill Permit

1. INTRODUCTION

   This Statement of Basis provides the rationale of the Director of the Division of Waste Management and Radiation Control for issuing the ROC – Intermountain Regional MSW Landfill Permit. The Director's staff conducted this evaluation to ensure compliance with the applicable Solid Waste Rules. Matt Sullivan wrote this Statement of Basis.

2. FACILITY BACKGROUND

   a. Facility Location and History
      The ROC Intermountain Regional MSW Landfill (IRL) is located at 800 South 18150 West (Allen Ranch Road) in Fairfield, Utah. It is a Class V landfill and owned by ROC Fund Landfill Holdings, LLC. It was constructed in the spring of 2012 according to Subtitle D standards and has mostly served communities and industries in Utah and Salt Lake Counties.

   b. Regulatory History
      IRLwas issued a permit to operate as a Class I landfill in January 2011. In March 2011, IRL was issued a permit to operate as a Class V landfill. In March 2017, IRL received an approved permit modification addressing new landfill floor cell elevations, leachate collection system and changes to the future final grade for the closure cap.

3. EVALUATION OF THE PERMIT APPLICATION

   a. The permit renewal application (DSHW-2020-015867) was received on October 30, 2020. The application was evaluated and determined complete on January 8, 2021 which included documentation and information meeting the solid waste regulations.

4. JUSTIFICATION FOR ISSUING THE PERMIT

   a. The Director's staff has evaluated the permit application as required by Section 19-6-108 of the Solid and Hazardous Waste Act and R315-301 through 320 of the Solid and Hazardous Waste Rules. The information provided in the application satisfies all requirements.

5. PUBLIC PARTICIPATION

   a. As required by Utah Administrative Code R315-311-3, the Director provided an initial 30-day public comment period between May 24, 2021 through June 22, 2021. No Comments were received during this time period.

6. DIRECTOR RESPONSE TO PUBLIC COMMENTS: No comments were received.

ROC–Intermountain Regional MSW Landfill
Facility Site Map