



State of Utah

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Governor

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Lieutenant Governor

Department of
Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF WASTE MANAGEMENT
AND RADIATION CONTROL

Douglas J. Hansen
Director

April 8, 2022

Kevin Kunz, District Manager
Washington County Landfill
325 North Landfill Road
Hurricane, UT 84780

RE: Approval of the Washington County Landfill Facility Permit, Washington County
SW215

Dear Mr. Kunz:

Enclosed is the approved permit to operate the Washington County Landfill Facility (Facility). The public comment period for the permit began on January 31, 2022 and ended on March 1, 2022. No comments were received.

Periodic inspections of the Facility will be conducted by representatives of the Division of Waste Management and Radiation Control and the Southwest Utah Public Health Department.

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: Permit (DSHW-2021-021471)
Attachment 1, Operations Plan (DSHW-2021-021473)
Attachment 2, Closure and Post-Closure Plans (DSHW-2021-021475)
Statement of Basis (DSHW-2022-002620)

c: Jeremy Roberts, Environmental Health Director, Southwest Utah Public Health Department
Paul Wright, P.E., District Engineer, UDEQ

DSHW-2022-002628

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DIVISION OF WASTE MANAGEMENT
AND RADIATION CONTROL
SOLID WASTE LANDFILL PERMIT

WASHINGTON COUNTY LANDFILL FACILITY

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:

Washington County Special Service District #1 as owner
and
Washington County Landfill, Inc. as operator
(Permittees),

to own, construct, and operate the Washington County Landfill Facility located in Washington County, Utah as shown in the Permit Renewal Application that was determined complete on November 30, 2021 (DSHW-2021-020082).

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

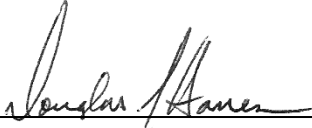
All references to R315-301 through 320 of the Utah Administrative Code are to regulations that are in effect on the date that this permit becomes effective.

This Permit shall become effective April 8, 2022.

Closure Cost Revision Date: April 8, 2027.

This Permit shall expire at midnight April 7, 2032.

Signed this 8th day of April, 2022.



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

FACILITY OWNER/OPERATOR INFORMATION

LANDFILL NAME:	Washington County Landfill Facility
OWNER NAME:	Washington County Solid Waste Special District #1
OWNER ADDRESS:	325 North Landfill Road, Washington, UT 84780
OWNER PHONE NO.:	(435) 637-2813
OPERATOR NAME:	Washington County Landfill, Inc.
OPERATOR ADDRESS:	330 North Landfill Road, Washington, Utah 84780
OPERATOR PHONE NO.:	(435) 673-2813
TYPE OF PERMIT:	Class I Landfill
FACILITY LOCATION	325 North Landfill Road, Washington, Utah
PERMIT NUMBER:	9410R4
PERMIT HISTORY	This facility first received a permit to accept solid waste in 1994. This is the fourth renewal of the permit. The October 2021 permit application (DSHW-2021-019801) has updated information and an updated Master Plan which prompted a new permit renewal from its 2018 permit. This permit renewal is effective on 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 the Washington County Landfill Facility, received by the Director on October 25, 2021, tracking number DSHW-2021-019801, was deemed complete on the 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 all attachments to this Permit.

The facility as described in this Permit consists of a Class I landfill with a scale house, shop building, current and future disposal cells designed for municipal solid waste (MSW), construction/demolition (CD), and yard waste, a public convenience drop off, waste battery collection area, waste tire storage area, used oil storage area, recyclable paper collection area, soil and grease trap evaporation area, composting collection and treatment area, and stormwater run-on and run-off retention ponds.

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 Permittees 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, in either real or personal property, or any exclusive privileges. 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 Permittees are subject to the following conditions.

PERMIT REQUIREMENTS

I. GENERAL COMPLIANCE RESPONSIBILITIES

I.A. General Operation

I.A.1. The Permittees shall operate the landfill in accordance with all applicable requirements of R315-301 through 320 of the Utah Administrative Code, for a Class I 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;

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

I.B.1.g PCB's as specified by R315-315-7(2) 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. PCB's as defined by R315-301-2(53) of the Utah Administrative Code, except as allowed in Section I.B (Acceptable Waste) of this Permit.

- I.C.4. Regulated asbestos-containing material.
- I.C.5. 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 of R315-301 through 320 of the Utah Administrative Code.

I.D. Inspections and Inspection Access

- I.D.1. The Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees fails to comply with any condition of the Permit. The Director will notify the Permittees 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 Permittees 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.

Prior to construction of any landfill cell, sub-cell, engineered control system, waste treatment facility, leachate handling system, or final cover, the Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees shall operate the landfill in accordance with the operations plan. If necessary, the Permittees 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 Permittees shall note any modification to the Operations Plan in the daily operating record.

II.B. Security

- II.B.1. The Permittees shall operate the Landfill so that unauthorized entry to the facility is restricted. The Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees 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. The Director approves an alternative daily cover material of compost and a Posi-Shell® type covering application.
 - II.E.2.a The Permittees shall apply standard daily cover (min. 6 inches of soil) at least once per week.
 - II.E.2.b The Permittees shall apply standard daily cover any time the daily cover will be exposed for greater than 24 hours.
 - II.E.2.c The Permittees shall apply standard daily cover when weather conditions (e.g., wind, rain, etc.) prevent proper use of alternate daily cover.
 - II.E.2.d The Permittees shall record alternative daily cover use dates in the facility daily operating log.
 - II.E.2.e The Director may rescind or amend the alternative daily cover approval if the requirements to prevent blowing debris, to minimize access to the waste by vectors, to minimize the threat of fires at the open face, to minimize odors, or to shed

precipitation are not met, or if necessary to prevent nuisance conditions or adverse impacts to human health or the environment.

II.F. Ground Water Monitoring

II.F.1. The Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees 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 Permittees 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.

II.G.2.e The Permittees shall operate and maintain the active landfill gas collection system consisting of vertical gas extraction wells installed within the landfill cell and flare system 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 Permittees shall visually inspect incoming waste loads to verify that no wastes other than those allowed by this permit are disposed in the landfill. The Permittees 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 Permittees shall select the loads to be inspected on a random basis.
- II.H.2. The Permittees 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 Permittees shall inspect all loads that the Permittees suspect may contain a waste not allowed for disposal at the landfill.
- II.H.4. The Permittees shall conduct complete random inspections as follows:
 - II.H.4.a The Permittees shall conduct the random waste inspection at the working face or an area designated by the Permittees.
 - II.H.4.b The Permittees shall direct that loads subjected to complete inspection 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 Personnel conducting the inspection shall record the results of the inspection on a waste inspection form as found in Attachment 1 of the Permit Application. The Permittees shall place the form in the daily operating record at the end of the operating day.
 - II.H.4.f The Permittees 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 Permittees shall transport it to the place of disposal in such a manner as to prevent leakage or the release of fugitive dust. The Permittees shall completely cover the ash with a minimum of six inches of material, or the Permittees shall use other methods or material, if necessary, to control fugitive dust. The Permittees may use ash for daily cover when its use does not create a human health or environmental hazard.
- II.I.2. The Permittees may dispose of animal carcasses in the landfill at the working face and shall cover them with other solid waste or earth by the end of the operating day in

which the carcasses are received. Alternatively, the Permittees may dispose of animal carcasses in a special trench or pit prepared for the acceptance of dead animals. If a special trench is used, the Permittees shall cover animals placed in the trench with six inches of earth by the end of each operating day.

II.I.3. The Permittees shall handle and dispose of asbestos waste and PCBs in accordance with R315-315-2 and 7 of the Utah Administrative Code, respectively.

II.J. Self-Inspections

II.J.1. The Permittees 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 Permittees shall complete these general inspections no less than quarterly and shall cover the following areas: waste placement, cover; leachate systems; fences and access controls; roads; run-on/run-off controls; ground water monitoring wells; final and intermediate cover; and litter control. The Permittees shall place a record of the inspections in the daily operating record on the day of the inspection. The Permittees 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 Permittees shall maintain and keep on file at the shop building, 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 Permittees, 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 Permittees;
- 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 Permittees 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 Permittees 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 the Permit Application, the Permittees 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 Permittees shall cease operations of the landfill until the winds diminish.

III. CLOSURE REQUIREMENTS

III.A. Closure

III.A.1. The Permittees 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 Permittees 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 Permittees shall meet the requirements of R315-302-2(6) of the Utah Administrative Code by recording a notice with the Washington 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 Permittees shall provide the Director the notice as recorded.

III.B. Post-Closure Care

III.B.1. The Permittees shall perform post-closure care at the closed landfill in accordance with the Post-Closure Care Plan contained 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 Permittees 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 Permittees shall adequately fund and maintain the financial assurance mechanism(s) to provide for the cost of closure at any stage or phase or anytime during the life of the landfill or the permit life, whichever is shorter.

III.C.2. With each annual revision of the closure and post-closure care cost estimate, the Permittees shall fund any amount for which the trust fund is deficient of the revised closure and post-closure care cost estimate by September 1 of the same year.

III.D. Financial Assurance Annual Update

III.D.1. The Permittees 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 Permittees 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 Permittees or by the Director following the procedures specified in R315-311-2 of the Utah Administrative Code. The Permittees 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. This Permit is for a Class I Landfill. 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.

IV.C.3. Any addition to the acceptable wastes described in Section I.B shall require submittal of all necessary information to the Director and the approval of the Director. 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 Section I.C of this Permit.

IV.D. Expiration

IV.D.1. If the Permittees desire to continue operating this landfill after the expiration date of this Permit, the Permittees 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 Permittees timely submit 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 – Operations Plan

Attachment 2 – Closure and Post-Closure Plans

Attachment 1
Operations Plan

Plan of Operation (R315-310-3(1)e and R315-302-2(2))

Description Of On-Site Waste Handling Procedures And An Example Of The Form That Will Be Used To Record The Weights Or Volumes Of Waste Received (R315-302-2(2)(b) And R315-310-3(1)(f))

All solid wastes deposited in the landfill will first cross a truck scale located adjacent to the scale house at the front gate. Haulers of the solid waste are divided into two categories by Washington County Landfill, Inc. as being either licensed or unlicensed. Commercial solid waste haulers are considered licensed haulers as they must obtain a license from Washington County Solid Waste Special Service District #1 to operate commercially in the landfill. The application that will be used by Washington County Solid Waste Special Service District #1 is contained in Attachment D of this permit application. Along with the application, each licensed hauler must submit proof of insurance with certification to Washington County, a copy of their current city or county business license, and their truck(s) number, serial number, body capacity, weight, and date of manufacture. Licensing is required of each commercial hauler annually.

All other solid waste haulers are classified as unlicensed. Included as unlicensed haulers are general contractors hauling construction and demolition materials and private citizens who haul their own trash and yard wastes.

Regardless of whether a solid waste hauler is classified as licensed or unlicensed, they are required to stop at the scale house and be weighed. Attachment E of this permit application contains a copy of a weigh ticket each hauler receives which is the basis for the assessment of the tipping fees.

A copy of the form used by Washington County Landfill, Inc. to track those loads hauled into the landfill by licensed and unlicensed haulers is presently contained in Attachment F of this permit application. When tires are brought to the landfill, the appropriate information is logged on a form for tracking and billing purposes. This form is also contained in Attachment E of this permit application.

After the initial stop at the scale house, the haulers of solid waste then proceed to the landfill site, and are directed to the active face by way of signing. As the haulers approach the working face of the landfill, they are further directed by the landfill spotter to a specific unloading location. As the waste material is off loaded, it is the spotter's responsibility to visually inspect the waste to determine the specific composition of the load being deposited. Provided at the landfill are 6 drop boxes to be used by residents of the district. These drop boxes are taken to the active face and off loaded. A camera is installed to monitor the activity at the drop boxes.

All waste material placed in the landfill cell is compacted to minimize air space usage and maximize unit weight. Waste is spread in lifts and compacted with a Cat D7 dozer and Cat 836 compactor to achieve maximum compaction.

At the end of each production day the solid waste placed in the landfill is covered with six inches of soil cover material or an Alternative Daily Cover (ADC). Following are the ADC's that may be utilized.

1. Compost

Compost may be used as an ADC when required.

The current daily cover needs are met by Alternative Daily Covers (ADCs) or the soil excavated from on-site. When either of these sources becomes inadequate, the importation of soil cover material from a nearby gravel crushing operation will be utilized. This operation procedure will continue through the next permit period.

The following special handling procedures apply for certain waste streams:

1. Odoriferous Wastes - All odoriferous wastes placed in the landfill cell are covered with six inches of cover material and/or ADC within the current work period or day's end.
2. Ash- All ash which presents a blowing concern will be covered with six inches of material and/or ADC within four hours after disposal of the waste in the unit before day's end. Water may be sprayed on the ash if required to control dust emissions during covering activities.

3. Bulky Wastes - The landfill is not utilized as an appliance or automobile junkyard. If these items are delivered to the landfill, they are removed and taken to a recycler.
4. Water Treatment or Wastewater Treatment Sludges, Non-Hazardous or Exempt Petroleum Contaminated Soils - Sludges including exempt petroleum contaminated soils, grease trap materials, oily water, and sand trap wastes that fail the Paint Filter Liquids Test method will be solidified/evaporated prior to their disposal in the landfill unit. Solidification methods include the addition of absorbent materials, after which the solidified wastes must pass the Paint Filter Liquids Test method before disposal. These solidified wastes are then placed on the working face and covered with other solid wastes or cover material. Sludges consisting of exempt petroleum contaminated soils may be used as daily cover. Sludges which are brought into the landfill shall be certified as non-hazardous by the generator. Analytical data may be required to certify waste as non-hazardous.

Generators/haulers of non-hazardous or exempt petroleum contaminated soils, water treatment or wastewater treatment sludges will be encouraged to solidify their sludges to ensure passage of the Paint Filter Liquids test prior to their placement in the landfill. However, the generator/hauler of these sludges may bring sludges which do not pass the Paint Filter Liquids test to the landfill for solidification and disposal. Upon arrival at the scale house, the gate keeper will verify certification as non-hazardous and direct the hauler to the Sludge Solidification Site. At this point a landfill operator will visually inspect the load prior to unloading to verify content. If it does not appear that the sludge will then pass the Paint Filter Liquids test, it will be distributed on the ground at the Sludge Solidification Site. The sludge will be placed on the solidification site by means of a tremie or flexible metal spout to allow for even distribution. As the sludge is being unloaded, the hauler will proceed under the direction of the operator at a speed which will minimize ponding of the liquids. Upon completion of unloading, all valves and external openings of the hauler's vehicle will be stopped prior to the hauler's departure from the Sludge Solidification Site. The sludge at the solidification site will be blended with native absorbent material until the sludge passes the Paint Filter Liquids test. The solidified sludges will then be placed at the landfill working face for disposal.

As liquids in delivered sludges are evaporated or absorbed into the surrounding soils, the dikes will be leveled. The impacted soils which made up the dikes and floor will be blended with other native absorbent material until the soil passes the Paint Filter Liquids test. The soils which pass this test may be stockpiled and used as a source of daily cover material.

5. Tires - It is the policy of Washington County Landfill, Inc. to have the landfill stockpile all tires brought into the landfill. Tires are removed from the site and delivered to a commercial recycler of tires.
6. Dead Animals - Animal carcasses received at the facility will be deposited onto the working face at or near the bottom of the cell with other solid waste, or into a separate disposal trench where they will be covered daily with a minimum of six inches of earth to prevent odors and the propagation and harborage of rodents and insects.

Schedule For Conducting Inspections And Monitoring, And Examples Of The Forms That Will Be Used To Record The Results Of The Inspections And Monitoring (R315-302-2(2)(c), R315-302-2(5)(a), And R315-310-3(1)(g))

Inspections of the facility will be conducted quarterly by Washington County Landfill, Inc. or its representative. The purpose of these inspections is to prevent any problems with the facility and to identify any deterioration of the facility and operator errors or malfunctions which may cause a release of wastes to the environment or threaten human health. The inspection logs will be kept at the facility in the scale house. Attachment G of this permit application is an example of the inspection log. All inspections will conform to subsection R315-302-2(5)(a) of the Solid Waste Permitting and Management Rules. The Washington County Landfill, Inc. inspection log program will consist of a summary of the following information:

1. Total Containment Evaporation Pond - Inspection of inlet and overflow structures for blockage, failure, and erosion. Inspection of rock-lined dikes and rock-lined drainage channel around the pond for potential erosion and washout. Inspection of lining systems for possible damage from men, equipment, root systems of surrounding vegetation, and burrowing animals will be conducted. Inspection of fence line and gates to ensure security of the total containment evaporation pond facility will be conducted. Inspection of containment dikes that lie below the pond will occur.
2. 18" Diameter Leachate Outfall Line - Inspection of manholes and outfall line for signs of blockage, leakage, or infiltration.
3. 12" Diameter Leachate Collection Line - Inspection of cleanouts and collection line for signs of blockage and failure. Should it be suspected that either has occurred to the collection line, a mandrel will be pulled through the suspected section to determine the extent and location of the damage.

4. Run-off Drainage Channel - Inspection of the lined channel and culverts for erosion and blockage.
5. Run-on Drainage Channel - Inspection of the rock-lined channel and culverts for erosion and blockage.
6. Perimeter Fencing and Access Gates - Inspection of fencing for breach of security and litter accumulation. Inspection of gates and other points of access for security and restriction of unauthorized access will be conducted.
7. Landfill Cell - Inspection of the active landfill face for placement and compaction of imported waste stream. Inspection of the access roads for settlement and stability and inspection of covered portions of the landfill cell for erosion and excessive settlement.

Contingency Plans In The Event Of A Fire Or Explosion (R315-302-2(2)(d))

Washington County Landfill, Inc. will implement various procedures to minimize and control fire, explosion, and release of explosive gases. Training for facility operations personnel will be provided. The procedures will include:

1. Washington County Landfill, Inc. will provide training to all facility employees regarding fire prevention and firefighting at the facility.
2. All supervisory personnel will maintain radio communication with personnel in the scale house and the Washington County Landfill, Inc. office. If required, the Washington County Landfill, Inc. office will contact the Washington City Fire Department for emergency assistance.
3. Dozers will be available to spread burning materials in the landfill so that water can be applied, to smother the burning material with non-ignitable material, or to build berms to contain the fire.
4. Stockpiled soil cover materials will be available in the vicinity to spread on burning materials.

5. All facility vehicles will contain a portable fire extinguisher which can be utilized to extinguish small fires.
6. A fire hydrant is located within 300 feet of the scale house. The hydrant is connected to a 36" water transmission line running through the landfill property. Water from this hydrant will be used to suppress fires.
7. In case off-site firefighting assistance is needed, the Washington City Fire Department will respond. The Washington City Fire Department should be able to respond to a fire within 15 minutes.

Corrective Action Programs To Be Initiated If Ground Water Is Contaminated (R315-302-2(2)(e))

In the event ground water contamination is detected, an appropriate remediation plan will be developed. The plan may include pumps placed in monitoring Well 1 and monitoring Well 2 with the intent of removing the perched water from the ground, therefore stopping transmission of the release. Water pumped from the monitoring wells will be land applied within the boundaries of the landfill facility where it will be evaporated. In the event that the perched aquifer is too large to practically draw down, pumping will continue until all constituents being analyzed are shown to be at or below established background values. This plan may be modified upon completion of investigations related to ground water contamination.

Contingency Plans For Other Releases, E.G. Explosive Gases Or Failure Of Run-Off Collection System (R315-302-2(2)(f))

In the event of a run-off containment system failure, the procedures for taking corrective action will include:

1. Washington County Landfill, Inc. will provide necessary training to facility employees regarding landfill emergency procedures.
2. All supervisory personnel will maintain radio communication with personnel in the scale house and the Washington County Landfill, Inc. office. The Washington County Landfill, Inc. office would then be able to contact the Washington County Emergency Management Personnel as required.

3. Dozers and compactors and other earth-moving equipment will be available to move earth material as necessary to seal off any breach to the run-off containment system until other permanent corrective measures can be taken.

In the event of a gas explosion, the procedures for taking corrective action will include:

1. Washington County Landfill, Inc. will provide necessary training to facility employees regarding landfill emergency procedures.
2. All supervisory personnel will maintain radio communication with personnel in the scale house and the Washington County Landfill, Inc. office. The Washington County Landfill, Inc. office would then be able to contact the Washington County Emergency Management Personnel as required.
3. Dozers and compactors and other earth-moving equipment will be available to move earth material as necessary to contain an emergency.

In the event of an overflow in the Total Containment Evaporation Pond, the procedures for taking corrective action will include:

1. Washington County Landfill, Inc. will provide necessary training to facility employees regarding landfill emergency procedures.
2. All supervisory personnel will maintain radio communication with personnel in the scale house and the Washington County Landfill, Inc. office. The Washington County Landfill, Inc. office would then be able to contact the Washington County Emergency Management Personnel as required.
3. Dozers and compactors and other earth-moving equipment will be available to move earth material as necessary to seal off any breach to the run-off containment system until other permanent corrective measures can be taken.
4. Contained waste water will be pumped into a water truck and returned to the Total Containment Evaporation Pond, solidified with on-site material and hauled to the landfill and used as daily cover, or taken to the local sewer district for disposal. Upon removal of the captured waste water, the affected native soil material will be removed and used for daily cover on the landfill cell.

5. Any damage to the Total Containment Evaporation Pond caused by the overflow will be repaired and the area will be restored to its original condition.

Plan To Control Fugitive Dust Generated From Roads, Construction, General Operations, And Covering The Waste (R315-302-2(2)(g))

It is Washington County Landfill, Inc. policy that all unpaved traveled roadways within the landfill facility are sprayed with water and that waste material be wetted or covered as necessary to control dust. Also, any solid waste material, such as ash, which presents a blowing concern, is covered with six inches of material or an ADC by the end of the day of disposal or water is sprayed on the waste material to control dust emissions. Air emissions will fall within state Air Quality Standards. Operator will log water truck loads.

Plan For Litter Control And Collection (R315-302-2(2)(h))

Wind-blown litter control will be performed by use of fencing, daily cover, and ADC. Litter collection will be performed by the Spotter at the active face and other landfill personnel as required. Fencing will be inspected for wind-blown litter as required to ensure containment and disposal of the litter materials.

Description Of Maintenance Of Installed Equipment (R315-302-2(2)(i))

Ground water monitoring equipment will be maintained in accordance with the landfill's groundwater monitoring plan and equipment manufacturers' instructions.

The current design of the leachate collection system and the contaminated run-off waters collection system operate in conjunction with the old system. The leachate collection system in the current and future cells consist of a network of leachate collection pipes and were sized to carry the anticipated leachate volumes over the life of the landfill. Each new cell has a sump and a riser for periodic extraction of leachate. The extracted leachate is recirculated back to the landfill. The old system which mainly served the old landfill, consists of a French drain that collects very little leachate from the old landfill and discharges into the Total Containment Evaporation Pond for evaporation. The Total Containment Evaporation Pond is lined with a membrane liner to prevent seepage of the leachates into the surrounding ground. Maintenance

of the leachate collection system in the lined cells is via a cleanout riser pipe installed along each sump riser and at the other end of the leachate pipe header as a second access point. The leachate pump in the sump is maintained and serviced regularly for proper and efficient operation. Maintenance of the channel system and the Total Containment Evaporation Pond will consist mainly of weed control.

Methane gas monitoring is performed quarterly using a hand-held probe. The hand-held probe is calibrated prior to each use by the gas sample collector. This will be done in conformance with the manufacturer's recommendations. The calibration of the probe will then be documented on the landfill gas quarterly monitoring results form. (See Attachment H of this permit application). Periodic inspection and repairs/replacements will be made to the LFG control system as necessary, including wellheads and collection piping system due to damage caused by accident, settlement, environmental factors and aging. Wellheads and casings will be adjusted vertically to conform to the surface elevation of the landfill. During each daily monitoring event at the blower-flare facility, all chart recorders should be checked for proper performance. Equipment performance should be observed during each facility visit. Condensate drain systems should be checked to make sure that they are functioning as designed. Condensate sumps and pumps should be serviced frequently.

Procedures For Excluding The Receipt Of Prohibited Hazardous Or PCB Containing Wastes (R315-302-2(2)(j))

Inspections of wastes for hazardous materials or waste containing PCBs will be performed at random or as deemed necessary by Washington County Landfill, Inc. A copy of the Random Load Inspection Record form is provided in Attachment I of this permit application. Although private individuals who haul only their personal solid waste are exempt, any load, private or commercial, suspected of containing hazardous materials or wastes containing PCBs will be subject to inspection.

The randomly inspected loads, as well as loads suspected of containing hazardous materials or wastes containing PCBs, will be off loaded at a predetermined inspection site. This inspection site will always be located away from the current working face of the landfill. Upon completion of the inspection Washington County Landfill, Inc. will remove the solid wastes passing inspection and place them at the working face of the landfill for burial. If inspection reveals that the load contains suspected hazardous materials or wastes containing PCBs the following measures will be taken by landfill personnel:

1. Immediately notify the Generator
2. Notify the Director of the DWMRC within 24 hours
3. Restrict the area from public access and from facility personnel
4. Assure proper cleanup, transport and disposal of the waste as per DWMRC recommendations

Inspection training of the landfill personnel will be performed by a qualified person from the landfill operator.

Extensive documentation will be maintained on special waste received. Individual files will be maintained for each generator. Each file will typically contain the following information:

1. Profile sheet
2. Appropriate analytical data
3. Correspondence with the generator

Procedures For Controlling Disease Vectors (R315-302-2(2)(k))

Various procedures are incorporated into the operation of the landfill to prevent, as much as possible, the transmittal of disease through disease vector control. Washington County Landfill, Inc. landfill operating procedures are intended to control disease vectors such as rodents, insects, and air borne particulates.

It is Washington County landfill, Inc. policy to keep the working face exposure to a minimum. In so doing, compaction efforts are maximized. Proper compacting procedures will help ensure not only the most effective use of available landfill space, but also reduces the likelihood of a rodent infestation.

To prevent an infestation of insects at the landfill, it is the policy of Washington County Landfill, Inc. to cover all odoriferous wastes with 6 inches of soil cover weekly.

A Plan For Alternative Waste Handling (R315-302-2(2)(l))

In the event that normal land filling operations are impeded or all together terminated through equipment breakdown or other unforeseen event, then an alternative location within the landfill

boundaries will be designated as a temporary handling and stockpiling facility. This alternative location will be as nearly adjacent to the existing working face as possible but maintaining sufficient distance for public safety. It is intended to use the ground which is currently approved for disposal of solid waste as a temporary stockpiling area first. However, should it become necessary to move off the approved site for the safety and general welfare of the public, the temporary stockpiling facility would then be located on ground which is proposed for the next unit to be constructed. As there are 500 acres within the sanitary landfill boundaries, it is unlikely that the occasion would arise that would require the complete closure of the landfill facility. In the event that the entire landfill facility was closed to public access due to a major catastrophe, then an alternative landfill site would need to be located for the temporary solid waste handling and stockpile facility as an emergency measure.

A temporary solid waste handling and stockpile facility would of necessity have to be versatile and mobile yet be conducive to securing the temporarily stockpiled solid waste from wind, salvagers, and animal scavengers. To construct such a facility, temporary fencing would be constructed along the perimeter of the proposed temporary stockpiling area. These fenced in areas could easily be enlarged or reduced in size as necessary to accommodate the expanding or reducing stockpile size. Sizing each individual stockpile area would be important in combating the effects of wind. In addition to securing the stockpiling area with fencing, it would also be necessary to channel and berm completely around the solid waste stockpiling area to protect the facility and surrounding area from run-on/run-off water and leachate.

After the working face of the existing landfill unit was re-established and was deemed safe to resume standard landfill operating practices, the solid waste which had previously been stockpiled at the temporary solid waste handling and stockpiling facility would then be transported to the landfill unit and deposited at the working face for compaction and burial. Upon completion of the removal of all the solid waste from the temporary stockpiling facility, the fencing would then be removed. Any impacted native soil would be removed and used as daily cover in the Washington County Landfill Facility. All run-on/run-off waters and leachate collected in the stockpiling area perimeter channel would then be pumped out and used as dust control at the landfill site. All channels would then be backfilled, all berms would be leveled, and the entire temporary stockpiling area would be scarified and contoured to its original condition.

A General Training And Safety Plan For Site Operations (R315-302-2(2)(o))

The manager of Washington County Landfill, Inc. will ensure that the required safety and training programs are conducted for the employees of the Washington County Landfill Facility. These topics will be taught from the Allied Waste Services Safety and Training Manual. A copy of the safety and training manual will be on file in the office of Washington County landfill, Inc. The order of training may change to suit the needs of the facility. All safety meetings and training will be documented by indicating the topic covered and main points discussed. Employees will be required to sign and date the appropriate forms.

Following is a list of the safety and training topics addressed, by month, over the course of the year.

<u>MONTH</u>	<u>TRAINING TOPICS</u>
January	Adverse Weather Hazardous Communication
February	Backing PPE – Conduct Hazardous Assessments, Industrial Truck Training Recertification for Forklift Operators
March	Push, Pull, Lift Lock Out/Tag Out Conduct Annual LOTO Documented Observations
April	Intersections/Pedestrians Accident Prevention Signs/Tags First Aid/CPR Training for Designated Employees
May	Heat Considerations Heat Stress Prepare Summer Safety Plans Load Inspections & Hazardous Waste identification

June	Backing Blood Borne Pathogens
July	Rear Collisions Emergency Response Training Fire Drill
August	Push, Pull, Lift Fire Extinguisher Training Hearing Conservation
September	Roll-Over Spill Prevention
October	Intersection Confined Spaces
November	Pedestrians Respiratory Protection Fall Protection Asbestos Safety Respirator Fit Tests
December	Drug and Alcohol Awareness

Any Recycling Programs Planned At The Facility (R315-303-4(6))

The Washington County Landfill Facility has programs to recycle metal and tires. A drop off area is provided for citizens to drop off recyclables.

A composting program has also been implemented at the landfill. The compost is produced by landfill personnel and sold to the public. If a surplus of compost is produced, the extra material may be used as an ADC. The landfill is also providing to the local communities a paint exchange program. Surplus paint is brought to the landfill by the public and exchanged for other paint. The public is not required to take paint with them when they drop off unused paint.

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SIGNATURE

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INSPECTION LOG

Washington County Landfill Facility

Name of Area Inspected	OK	Needs Repair	Comments
Total Containment Evaporation Pond			
18" Leachate Outfall Line			
12" Leachate Collection Line			
Run-off Drainage Channel			
Run-on Drainage Channel			
Perimeter Fencing and Access Gates			
Landfill Cell			
TIME:	DATE:	INSPECTOR:	SIGNATURE:

WASHINGTON COUNTY
SOLID WASTE SPECIAL SERVICE DISTRICT NO. 1
LANDFILL GAS QUARTERLY MONITORING RESULTS
YEAR ____ QUARTER ____

Date: _____

Time: _____

Name of Gas Sample Collector _____

Temperature _____

Weather _____

Monitoring device should be calibrated prior to initiating sampling.

Accomplished? Yes No

Methane Monitoring Location		Measured %LEL	Internal Action Limit: Half of Regulatory Limit (%LEL)	Regulatory Action Limit (%LEL)
1. NW Corner of the Scale House	Outside		12	25
	Inside		12	25
2. North Boundary			50	100
3. South Boundary			50	100
4. NW Corner of Treatment Pond			12	25
5. SW Corner of Composting Area			12	25

- **Gas Sample Collector:** If measured % LEL equals or exceeds internal action limit, contact the facility manager.
- **Facility Manager:** If measured % LEL equals or exceeds regulatory action limit, notify the State Director in compliance with 40 CFR 253.23(c).

Comments:

 Gas Sample Collector

WASHINGTON COUNTY SANITARY LANDFILL
Random Load Inspection Record

INSPECTION INFORMATION

Inspector's Name: _____
Date of Inspection: _____
Time of Inspection: _____
Facility Name: _____

TRANSPORTATION COMPANY INFORMATION

Name: _____
Address: _____

Phone Number: _____

VEHICLE INFORMATION

Driver's Name: _____
Vehicle Type: _____
Vehicle License Number: _____
Vehicle's Last Stop: _____
Vehicle Contents: _____

OBSERVATIONS AND ACTIONS TAKEN

Photo Documentation: Yes No

Driver's Signature*: _____ Date: _____

Inspector's Signature: _____ Date: _____

* Driver's signature hereon denotes: His presence during the inspection and does not admit, confirm or identify liability.

ALL DISTRICT EMPLOYEES PRESENT MUST SIGN BOTTOM OF FORM

Attachment 2
Closure and Post-Closure Plans

Site Closure And Post-Closure Plan (R315-310-3(1)(h))

Closure Plan (R315-310-3(1)(h))

Closure Schedule (R315-310-4(2)(d)(I))

The closure schedule of the Washington County Landfill Facility will be as cited in section Anticipated facility life and the basis for calculating the facility's life (R315-310-4(2)(c)(ii)) of this permit application.

Design Of Final Cover (R315-310-4(2)(c)(iii))

The cell design including liner design, cover design, fill methods, elevation of final cover including plans and drawings are contained in Master Plan Report, Appendix A, in Attachment O of this permit application. Detailed landfill final closure construction drawings will be submitted prior to any future closure construction to the Director for approval.

Capacity Of Site In Volume And Tonnage (R315-310-4(2)(d)(ii))

The capacity of the site in volume and tonnage has been calculated using latest topographic maps of the facility and the Master Plan fill plans (Attachment O). The total capacity of the site (including consumed airspace) is approximately 79,908,200 cy. Assuming an average operational density of 1,824 lbs/cy, this equates to approximately 72,876,200 tons of waste including daily soil cover. Based on the most recent aerial topographical survey date of March 9, 2021, the total remaining volume and tonnage capacity of the site (including the remaining available airspace in Phase 4 and future Phases 5-12) is approximately 74,683,700 cy and 68,111,500 tons, respectively.

Final Inspection By Regulatory Agencies (R315-310-4(2)(d)(iii))

All items of closure work performed by the contractor will be subject to inspection by the District, its representatives or representatives of regulatory agencies having jurisdiction over the operation of the landfill. To ensure compliance with all rules and regulations that apply to the landfill, a final closure plan will be submitted prior to any closure construction to the Director for approval.

Prior to the existing landfill unit closure construction, the District will notify the regulatory agency responsible for the operations of the landfill facility in order that inspection trips may be planned.

All test results for all phases of closure construction will be kept on file as part of the landfill record.

Post-Closure Care Plan (R315-310-3(1)(h))

Site Monitoring Of Landfill Gases, Ground Water, And Surface Water, If Required (R315-310-4(2)(e)(i))

Ground water monitoring will continue during the post-closure care period as it is apparent that there is a perched water aquifer requiring the installation of ground water monitoring equipment. Maintenance of water monitoring equipment during this period consists of protection and maintaining of the monitoring well heads.

As there are no surface water sources on the landfill property, it will not be required of the District to conduct surface water monitoring as part of the post-closure care activities.

Upon closure of the landfill facility, leachate will be collected and treated as needed. During the years of operation prior to closure, a de-watering/run-off system has been and will be constructed to collect and remove all contaminated water from unclosed units and deposit the water in a total containment evaporation pond. After all units are covered with a protective cap system, the de-watering systems will remain in-place and continue to drain any moisture within the units. Post-closure maintenance of this system will consist of maintaining the integrity of the evaporation pond membrane lining system through weed and erosion control. It is expected that the facility will be entirely capped. There will be little, if any, leachate collected in the evaporation pond during the actual post-closure care period.

Gas monitoring will continue after closure of the landfill facility during the post-closure care period. Maintenance of gas monitoring equipment during this period consists of regular calibrations, and occasional repair or replacement of the actual gas equipment as per manufactures recommendations.

Withdrawals from the selected financial assurance instrument for the costs incurred by the District for performing the regularly scheduled quarterly inspections and methane gas

monitoring will be requested at the end of each quarter that the inspections are made. Withdrawals for any required additional inspection trips and maintenance work performed will also be made at the as needed in which it was performed.

Changes To Record Of Title, Land Use, And Zoning Restrictions (R315-310-4(2)(e)(ii))

Change of ownership of the property has occurred. On January 21, 1994, the United States of America gave and granted the property that contains the original 500-acre footprint of the Washington County Landfill Facility to Washington County. On October 5, 2018 an additional 55 acres of adjacent property was acquired by Washington County from the BLM. Washington County leases the property to the Washington County Solid Waste Special Service District #1. Washington County Landfill Inc. operates the landfill facility. A copy of the deed and the lease agreement are contained in Attachments A and B of this permit application.

Maintenance Activities To Maintain Cover And Run-On/Run-Off Control Systems (R315-310-4(2)(e)(iii))

There are no surface water sources on the landfill property, other than normal stormwater runoff. As a result, Washington County Landfill will not conduct surface water monitoring as part of the post-closure care activities.

The water balance indicates that, upon closure of the landfill facility, there will be no leachate collection or associated treatment. A leachate collection and extraction system has been provided however in the new cells, where leachate is extracted from sumps and recirculated back to the landfill. A run-off control system has been constructed to collect and remove all contaminated water from unclosed units and deposit the water in a Total Containment Evaporation Pond. After all units are covered with a protective cap system, the leachate collection system and run-off control systems will remain in-place and continue to drain any moisture within the units. Post-closure maintenance of this system will consist of maintaining the integrity of the evaporation pond membrane lining system through weed and erosion control. It is expected that the facility will be entirely capped, there will be little, if any, leachate collected in the evaporation pond during the actual post-closure care period.

Maintenance of the leachate evaporation pond as discussed previously will consist of weed and erosion control to ensure that any collected leachate is contained. Regular inspection will be made to determine the integrity of the pond and volume of collected leachates if any.

The run-off water channels along the perimeter of the closed landfill unit will require routine inspection and cleaning to ensure that obstructions do not occur. In conjunction with the routine inspection of the run-off water channels, inspection of the protective cap system will be performed to ensure that the vegetation continues to protect the cover soil from erosion.

Regular inspections will be made to ensure the integrity of the protective cap system and the run-on/run-off systems. It is understood that erosion can have an adverse effect upon the landfill facility, and, if left unchecked or not maintained, could become a public health hazard. It is Washington County Landfill, Inc.'s intention to implement a maintenance program to ensure the integrity of the landfill facility and remaining structures during the post-closure period, thus protecting the public and the environment.

It is anticipated that weed control in the run-off water channels and evaporation pond will require maintenance annually. This post-closure maintenance should be performed mid to late winter prior to the germination of the seeds in the spring.

List The Name, Address, And Telephone Number Of The Person Or Office To Contact About The Facility During The Post-Closure Care Period (R315-310-4(2)(e)(vi))

The names, address, and telephone number of the person or office to contact about the facility during the post-closure care period is as follows:

Name: Washington County Special Services District #1
Kevin Kunz, District Manager

Address: 325 North Landfill Road
Washington, Utah 84780

Phone #: (435) 673-2813

**Statement of Basis
for
Washington County Landfill Facility 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 Washington County Landfill Facility 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 Washington County Landfill Facility is located at 330 North Landfill Road in the south central portion of Washington County, and south and east of the Washington City limits in an isolated geographic area known as Purgatory Flat. As early as 1969 and through the 1970s, according to records, preliminary investigations and land surveys for a future county landfill were pursued. About 1979, the Washington County Solid Waste Special Service District #1 was established. In another record, Washington County began operation in 1980 as a sanitary landfill (DSHW-1999-006962).

b. Regulatory History

The facility received its first permit from the State of Utah on September 22, 1994. Since then, the Washington County Landfill Facility has routinely renewed its landfill permit to operate. To date, this is Washington County Landfill Facility's fourth permit renewal.

3. EVALUATION OF THE PERMIT APPLICATION

- a. The permit renewal application (DSHW-2021-019801) was received on October 25, 2021. The application was evaluated and determined complete on November 30, 2021.

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 Waste Permitting and Management 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 a 30-day public comment period between January 31, 2022 through March 1, 2022. No Comments were received.

6. DIRECTOR RESPONSE TO PUBLIC COMMENTS: No comments were received during the public comment period. There were no responses from the Director.

Washington County Landfill Facility Location Map (North Bearing – top of map)

