



June 1, 2021

RICK HURT  
SOUTH CENTRAL IOWA SOLID WASTE AGENCY  
1736 HIGHWAY T17  
TRACY IA 50256

RE: South Central Iowa Solid Waste Agency Landfill (Marion Co.)  
Permit No. 63-SDP-02-77P  
Permit Revision #5

Dear Mr. Hurt:

Enclosed is a revised permit for the South Central Iowa Solid Waste Agency Landfill.

The permit was revised to incorporate into the permit authorization to excavate into previously deposited waste to bury animal wastes and asbestos (special provision #2f), as requested in the May 26, 2021 letter from HDR.

The permit and the approved plans must be kept at the sanitary disposal project in accordance with subparagraph 113.11(1)"a". Please review the permit with your operators, as they must become familiar with it.

If you have any questions please contact me at [mick.leat@dnr.iowa.gov](mailto:mick.leat@dnr.iowa.gov) or (515) 689-6548.

Sincerely,

**Michael Leat**  
Digitally signed by Michael  
Leat  
Date: 2021.06.01 14:42:37  
-05'00'

Michael B. "Mick" Leat  
Land Quality Bureau

attachment

copy: Katie Kinley, P.E.  
HDR  
1917 South 67<sup>th</sup> Street  
Omaha, NE 68106

DNR Field Office #5

**IOWA DEPARTMENT OF NATURAL RESOURCES  
SANITARY DISPOSAL PROJECT PERMIT**

- I. Permit Number:** 63-SDP-02-77  
South Central Iowa Solid Waste Agency Landfill  
(Marion Co.)
- II. Permitted Agency:** South Central Iowa Solid Waste Agency
- III. Project Location:** Part of the SE¼ of the SE¼ of Section 20; part of the W½ of the SW¼ of Section 21; the NW¼ of the NW¼, the S½ of the NW¼ (subject to mineral rights and any easements), and part of the N½ of the SW¼ (subject to mineral rights and any easements) of Section 28; and part of the NE¼ and part of the W½ of the SE 1/4 of Section 29; all in T75N, R18W, Marion County, Iowa
- IV. Responsible Official**  
Name: Rick Hurt, Director  
Address: South Central Iowa Solid Waste Agency  
1736 Highway T17  
Tracy, IA 50256  
Phone: (641) 828-8545  
FAX: (641) 842-3722
- V. Licensed Design Engineer**  
Name: Megan Seymour, P.E.  
Address: HDR  
1917 S. 67<sup>th</sup> Street  
Omaha, NE 68106  
Phone: (402) 926-7170  
FAX: (402) 399-4918  
Iowa License Number: 24975
- VI. Date Permit Issued:** **May 10, 2019**  
**Date 5<sup>th</sup> Permit Revision:** **June 1, 2021**
- VII. Permit Expiration Date:** **May 10, 2024**

**VIII. Issued by:** Michael Leat Digitally signed by Michael Leat  
Date: 2021.06.01 14:30:47 -05'00'  
Iowa Department of Natural Resources

## **IX. General Provisions**

The above named permitted agency is hereby authorized to operate a sanitary disposal project at the described location in conformance with Iowa Code section 455B, the rules pursuant thereto existing at the time of issuance, and any subsequent new rules which may be duly adopted, and any provisions contained in Section X of this permit.

The issuance of this permit in no way relieves the applicant of the responsibility for complying with all other local, state, and federal statutes, ordinances, and rules or other requirements applicable to the establishment and operation of this sanitary disposal project.

No legal or financial responsibility arising from the construction or operation of the approved project shall attach to the State of Iowa or the Department of Natural Resources (DNR) due to the issuance of this permit.

If title to this project is transferred, the new owner must apply to the DNR for a transfer of this permit within thirty days of the date of title transfer pursuant to subrule 113.4(3). This permit is void sixty days after the date of title transfer unless the DNR has transferred the permit.

The permit holder shall file a Quarterly Solid Waste Fee Schedule and Retained Fee Report utilizing the DNR's Form 542-3276 and remit tonnage fee payment, as applicable, for all wastes disposed at the sanitary disposal project in accordance with Iowa Code section 455B.310. The Reports will be due January 1, April 1, July 1 and October 1 for the quarters ending September 30, December 31, March 31 and June 30, respectively. The permit holder shall mail the completed report to the Solid Waste Section, Wallace State Office Building, 502 East Ninth Street, Des Moines, Iowa 50319. This reporting procedure supersedes any previous conflicting permit provisions.

The permit holder shall weigh all solid waste collection vehicles and solid waste transport vehicles on a scale certified by the Iowa Department of Agriculture and Land Stewardship. If conditions are such that make it impractical to provide an on-site scale, then off-site scale facilities may be used if justified and approved by the DNR. The permit holder shall comply with the waste weighing, record keeping and tonnage fee reporting requirements defined in rule 101.14(455B,455D). The scale weighing facilities shall comply with the certification and licensing requirements of the Iowa Department of Agriculture and Land Stewardship at all times. The permit holder shall maintain a current copy of the weighing scale facility licensing certificate issued by the Iowa Department of Agriculture and Land Stewardship at all times.

The permit holder shall comply with the gas control provisions of IAC 567 Chapters 20 through 31, including paragraph 23.1(2)“rrr” for the New Source Performance Standards and paragraph 23.1(5)“a” for the Emission Guidelines.

The permit holder shall ensure that the sanitary disposal project does not (1) cause a discharge of pollutants into waters of the United States, including wetlands, that violates any requirements of the Clean Water Act, including, but not limited to, the National Pollutant Discharge Elimination System (NPDES) requirements, pursuant to Section 402 of the Clean

Water Act, and (2) cause the discharge of a nonpoint source of pollution into waters of the United States, including wetlands, that violates any requirement of an areawide or statewide water quality management plan that has been approved under Section 208 or 319 of the Clean Water Act.

The permit holder shall submit an updated Municipal Solid Waste Sanitary Landfill Financial Assurance Report Form no later than April 1<sup>st</sup>, annually, pursuant to rule 113.14(455B). Use of this form provides permit holders a uniform means of submitting all required documentation to ensure that closure and postclosure cost estimates and applicable financial assurance instruments are updated as required.

Failure to comply with Iowa Code section 455B, or any rule of order promulgated pursuant thereto, or any provisions of this permit may result in 1) a civil penalty of up to \$5000 for each day of violation, pursuant to Iowa Code section 455B.307, or 2) the suspension or revocation of this permit, pursuant to Iowa Code section 455B.305.

#### **X. Special Provisions**

1. The permit holder is authorized to accept solid waste for disposal in accordance with the approved South Central Iowa Solid Waste Agency Comprehensive Plan, Part I. The Comprehensive Plan, Part I as approved by the Department on December 3, 2015; any approved amendments to the plan; and the latest plan update, are hereby incorporated as permit plan documents.

The permitted service area includes: All cities and the unincorporated area in Lucas County; all cities and the unincorporated area in Marion County; all cities and the unincorporated area in Monroe County; all cities and the unincorporated area in Poweshiek County; and the city of Victor in Iowa County.

In accordance with subrule 101.13(2), the permit holder shall submit an updated Comprehensive Solid Waste Management Plan compliant with the DNR's schedule.

2. The permit holder shall operate the site in accordance with the Development and Operations Plan (doc #25283) dated June 27, 2008, and the Addendum (doc #26742) dated July 18, 2008; and the revision (doc #79327) dated January 24, 2014; all submitted by Foth Infrastructure & Environment; and the following:
  - a. Waste disposal is limited to Phases 4A, 4B, 4C, 4D, 4E, and 4F. The site vertical height shall not exceed a maximum waste elevation of 922 feet as shown on Drawing 10 of the 2008 Permit Application dated June 27, 2008, as submitted by Foth Infrastructure and Environment, LLC (Note: this elevation cannot be achieved until construction of future cells 4E and 4F have been completed). Completion of construction for these two cells and any additional expansion cells shall require prior DNR approval.

- b. The permit holder shall collect leachate from the leachate control system and properly dispose of the leachate either by treatment in an on-site facility, discharge with an NPDES permit; or by discharge to the City of Knoxville or City of Des Moines Wastewater Reclamation Facility publicly owned treatment works (POTW). If the discharge is to a POTW with a pretreatment program approved by the DNR, the discharge must comply with the terms and conditions of a local permit issued for the discharge by the POTW. If the discharge is to a POTW without an approved pretreatment program a completed treatment agreement form shall be submitted to the DNR's Wastewater Section. Copies of the local permit or treatment agreement shall be provided to the DNR's Solid Waste Section and the local Field office. The treatment agreement must be on DNR Form 31 (542-3221) and must comply with the requirements of subrule 64.3(5).

In addition, the permit holder shall monthly measure leachate head levels and elevations at all piezometers and record the volume of leachate collected and transported to the treatment works. Records of leachate contaminants testing required by the treatment works and any NPDES permit for on-site treated leachate discharges shall be maintained.

The permit holder shall document each occurrence of the high-level alarm installed in the leachate storage tank for inclusion in the Leachate Control System Performance Evaluation (LCSPE) Report. The required documentation consists of the following:

- I. The date and time of each occurrence,
- II. Identification of the cause,
- III. Approximation of the duration of the release and amount of leachate, if any, that overflowed from the tank,
- IV. Description of the specific remedial actions taken by the certified operator to correct the problem, and
- V. The date and time when compliance was reestablished.

The permit holder shall annually submit a Leachate Control System Performance Evaluation (LCSPE) Report pursuant to subparagraph 113.7(5)"b"(14) as a supplement to the facility Annual Water Quality Report, as defined in subrule 113.10(10).

- c. The following shall be recorded by the permit holder and reported in the LCSPER for each leachate thickness measurement that equals or exceeds 12 inches:
  - 1) Date of original and any verification measurement.
  - 2) If 12 inch or greater leachate column is verified, specific actions taken by the certified operator to lower leachate thickness, or an explanation why specific actions were not necessary.
  - 3) Date and results of follow-up measurement.
  - 4) Repeat steps 2 and 3 as necessary until a compliant measurement is collected.
- d. The permit holder shall follow the approved Emergency Response and Remedial Action Plan (ERRAP) procedures during all emergencies pursuant to subrule 113.8(5). An updated ERRAP shall be submitted at the time of each permit renewal application. An updated ERRAP shall be included with any request for permit modification to

incorporate a facility expansion or significant changes in facility operation that require modification of the currently approved ERRAP.

- e. The Soil Borrow Area Revegetation Plan (doc #80643), dated July 7, 2014, as submitted by SCS Aquaterra was approved on July 8, 2014 and incorporated into the permit. Revegetation of this area of the site was required in response to acid-mine drainage identified in groundwater and surface water at the site. Follow-up inspections and maintenance shall be performed in accordance with the schedule contained in the plan, unless otherwise approved by the DNR.
  - f. In accordance with the request from the permit holder (doc #100576) dated May 26, 2021, the permit holder is authorized to dispose of asbestos and animal wastes, including dead animals and animal byproducts, at the working face of the landfill through trenching in previously deposited wastes and direct burial. Trenches excavated in the previously deposited wastes for this purpose will be backfilled promptly and covered with daily cover. No separate DNR notification is required per 567 IAC 100.5.
3. The permit holder is authorized to develop the site in accordance with the Permit Drawings for the Near North Development (doc #25283), dated June 27, 2008, as amended by the Response to Permit Renewal Comments (doc #33088), dated October 31, 2008, as submitted by Foth Infrastructure & Environment; and the updated drawings contained in Appendix A of the Permit Renewal Application (doc #94064), dated December 31, 2018 as submitted by HDR; and the following:
- a. The permit holder is authorized to construct the leachate storage pond and loadout described in the request to construct dated March 30, 2021 (doc #100090), as submitted by HDR.
  - b. The permit holder is not currently authorized to construct any expansions of the MSWLF unit beyond the existing cells listed in special provision #2a.
  - c. The permit holder shall notify the DNR and have the site inspected when the construction of a new Municipal Solid Waste Landfill (MSWLF) unit or significant components thereof has been completed, in accordance with subrule 113.4(6). Prior to the inspection, the Quality Control and Assurance officer shall submit a final report to the DNR that verifies compliance with the requirements of rule 113.7 and the approved plans and specifications. No waste disposal shall commence in any newly constructed unit or portion thereof until it has been inspected and approved by the DNR.
  - d. The Iowa Professional Engineer Certification of Alternative Landfill Liner System (doc #8280) dated March 20, 1998, and contained in the 1998 Performance Study Liner Area N & Area S dated January 1998, as submitted by FOX and approved on April 14, 1998. The approved alternative liner system for this facility is applicable to Areas N-1, N-2, and N-3. This liner consists of a four (4) foot thick compacted soil liner with a coefficient of permeability of  $1 \times 10^{-7}$  cm/sec.

- e. Leachate monitoring wells LW-471 and LW-475 have been abandoned. Information related to abandonment of these wells (doc #8277) dated December 30, 1998, as submitted by FOX Engineering Associates, Inc. and approved on March 17, 1999; is incorporated into the permit.
- f. The As-Constructed Record Drawings (RD-6, RD-29A, and RD-29B) for Area N-1 (docs #53616 and #53617), as submitted by FOX Engineering Associates, Inc. under cover letter dated November 19, 2001, and approved on November 27, 2001; is incorporated into the permit.
- g. The Construction Certification Report for Area N-1 (doc #53614) dated October 18, 2001, as submitted by FOX Engineering Associates, Inc. and approved on December 14, 2001; is incorporated into the permit.
- h. The Construction Certification Report for Area N-2 (doc #53606) dated October 10, 2002, as submitted by FOX Engineering Associates, Inc. and approved on December 24, 2002; is incorporated into the permit.
- i. The As-Constructed Drawing (docs #53607 and #53582, Record Drawing) for Area N-2 dated December 4, 2002, as submitted by FOX Engineering Associates, Inc. and approved on November 7, 2003; is incorporated into the permit.
- j. The Construction Certification Report (doc #53543) dated October 13, 2004, as submitted by FOX Engineering Associates, Inc. related to construction of expansion Area N-3 and approved on October 20, 2004, is incorporated into the permit.
- k. The As-Constructed Drawing (docs #53536 and #53537, Record Drawing) for Area N-3 dated November 3, 2004, as submitted by FOX Engineering Associates, Inc. and approved on November 10, 2004, is incorporated into the permit.
- l. The record drawing for the new sediment basin (doc #53522) dated November 23, 2005 as submitted by FOX Engineering Associates, Inc. and approved on December 8, 2005, is incorporated into the permit.
- m. The Construction Observation Report, Cell 4A Construction (docs #46288 and #46298), dated August 13, 2009, as submitted by Foth Infrastructure and Environment and approved on August 17, 2009 is incorporated into the permit.
- n. The Landfill Construction Observation Report, Cell 4B-D Construction (doc #73608), dated July 20, 2012, as submitted by Foth Infrastructure and Environment and approved on July 31, 2012, is incorporated into the permit.
- o. The Construction Quality Assurance Report for the Cell 4F Liner and Leachate System (doc #83945), dated July 22, 2015, as submitted by SCS Aquaterra and approved on July 29, 2015, is incorporated into the permit.

- p. The Leachate Piezometer LW-471R Installation Notification (doc #84641), dated November 5, 2015, as submitted by SCS Aquaterra, is incorporated into the permit.
  - q. The Construction Quality Assurance Report for the Cell 4E Liner and Leachate System, dated September 27, 2019, as submitted by HDR and approved on October 7, 2019, is incorporated into the permit.
4. Hydrologic monitoring at the site shall be conducted in accordance with the Hydrologic Monitoring System Plan (HMSP) contained in Appendix D of the Permit Renewal Application (doc #94064), dated December 31, 2018, and amended by the March 19, 2019 email submittal (doc #94660) as submitted by HDR; and the following:

- a. The HMSP shall include background monitoring points MW-307, MW-312, and MW-390; and downgradient monitoring points MW-300, MW-303, MW-304, MW\_310, MW-313, MW-335, MW-344, MW-380, MW-381, MW-382R, MW-384, MW-385, and groundwater underdrain monitoring point GU-4A.

As a condition of DNR's approval of the alternative source described in Special Provision #4n, surface water sampling shall also be conducted at SW-1 for the acid mine drainage indicator constituents listed in the second paragraph of Special Provision #4c.

- b. DNR construction documentation form 542-1277 and boring logs for all monitoring wells and piezometers shall be submitted within 30 days of installation. DNR construction documentation form 542-1323 shall be submitted within 30 days of establishing surface water monitoring points.
  - I. Boring logs and monitoring well construction documentation forms for MW-380, MW-381, MW-382, and MW-383, as contained in Appendix G-1 of the Development, Operations, and Implementation Plan and Compliance Schedule (doc #25283), dated June 27, 2008, as submitted by Foth Infrastructure and Environment, are incorporated into the permit.
  - II. The construction documentation for MW-384 and MW-385 (doc #29259), dated October 29, 2009, as submitted by Foth Infrastructure and Environment, is incorporated into the permit.
  - III. The construction documentation for MW-390 (doc #60673), dated September 29, 2010, as submitted by Foth Infrastructure and Environment, is incorporated into the permit.
  - IV. The abandonment documentation for MW-382 and the construction documentation for replacement well MW-382R (doc #64797), dated April 26, 2011, as submitted by Foth Infrastructure and Environment, is incorporated into the permit.



- V. The construction documentation for MW-601, MW-602, and MW-603 (doc #96817), dated January 8, 2020, as submitted by SGS Testing, is incorporated into the permit.
- c. The permit holder shall conduct background and routine semiannual groundwater sampling and analysis; as well as perform statistical tests for the approved monitoring points for the Appendix I and supplemental parameters consisting of alkalinity as  $\text{CaCO}_3$ , aluminum, iron, pH, sulfate and total suspended solids (TSS) in accordance with rule 113.10(455B). Groundwater samples shall **not** be field-filtered prior to laboratory analysis and total suspended solids shall be analyzed using Method 1376585, with a reporting limit goal of  $\leq 2$  mg/l). Turbidity measurement may be approved by the DNR in lieu of TSS, provided a correlation between the two is established.

The permit holder shall also conduct routine semiannual surface water sampling at SW-1 for alkalinity (as  $\text{CaCO}_3$ ), aluminum, iron, pH, and sulfate. The results shall be presented and evaluated in the facility's annual water quality report.

Future statistically significant increases of the supplemental parameters, if they should occur, shall not trigger assessment monitoring or corrective action requirements in 567 IAC 113.10(6) or (7).

- d. The permit holder shall include in each AWQR an evaluation of TSS/turbidity data and other pertinent sampling and analytical results, to determine if representative samples of groundwater have been collected. If samples are not representative, the permit holder may be required to utilize low flow or no-purge sampling methods, consider new well construction with an optimized filter pack design, and/or additional well development. If sample quality does not improve with improved well construction, well development, and/or sampling methods, the DNR will consider higher TSS/turbidity levels as representative of site groundwater conditions.
- e. If the site's detection monitoring statistical approach includes the use of resampling, the resampling scheme must be specified in the HMSP, and the resampling must be conducted within 90 days of determining an indicated SSI in accordance with 567 IAC 113.10(5)"c"(3).
- f. The frequency for full Appendix II analysis at monitoring points that are in assessment monitoring and have had at least two (2) rounds of analysis using the entire Appendix II list may be decreased to once every (5) five years. If monitoring points exit assessment monitoring and later return to assessment monitoring, an additional two (2) rounds of analysis using the entire Appendix II list is required.
- g. The permit holder shall semiannually measure groundwater elevations within 1/100 of a foot in each well and immediately prior to purging, each time groundwater is sampled.
- h. The permit holder shall collect semiannual groundwater elevation measurements from the Cell 4A groundwater underdrain piezometer in order to measure the separation of

the base of the MSWLF unit from the groundwater table as required in paragraph 113.6(2)"i". This data shall be included in the facilities' AWQR.

- i. An Annual Water Quality Report (AWQR) summarizing the effects the facility is having on groundwater quality shall be submitted to the DNR's Solid Waste Section by January 31 each year. This report shall be prepared in accordance with subrule 113.10(10) by a qualified groundwater scientist pursuant to paragraph 113.10(1)"d" and by using the DNR Annual Water Quality Report Format.
- j. For the spring semiannual sampling event, in accordance with subrule 113.10(1)e(2) and 113.10(1)e(7), notification and placement of notice in the operating record for SSIs over background and SSL over the groundwater protection standard will be submitted to the DNR within 60 days of receipt of the laboratory analytical report.
- k. For the fall semiannual sampling event, in accordance with subrule 113.10(1)e(2) and 113.10(1)e(7), notification and placement of notice in the operating record for SSIs over background and SSL over the groundwater protection standard will be submitted to the DNR with the Annual Water Quality Report.
- l. In accordance with the January 6, 2011 letter from the DNR, the permit holder will notify the DNR of detected Appendix II constituents for wells in assessment monitoring semiannually with the spring statistical update and AWQR.
- m. The permit holder shall submit the laboratory analytical results for the routine sampling events semiannually with the spring statistical update and AWQR.
- n. On June 5, 2014, an alternate, acid-mine drainage (AMD) source of beryllium, cadmium, cobalt, nickel, and zinc detected in MW-380 at concentrations in excess of the applicable Groundwater Protection Standards was approved (doc #80410). Corrective action for these occurrences is not required.

As an ongoing condition of this demonstration, the permit holder shall include an evaluation in each AWQR of alkalinity, aluminum, iron, pH, sulfate, and TSS results in groundwater and surface water to determine if Acid Mine Drainage (AMD) impacts are stable, expanding, or retracting across the site. The evaluation shall include a discussion of AMD impacts at all wells with SSIs or statistical significant exceedances of groundwater protection standards attributable to AMD, and all other compliance-point wells that exhibit evidence of AMD but may not currently be SSIs.

- 5. The permit holder is authorized to recirculate leachate by spray application or recirculation trenches in accordance with the Leachate Recirculation Plan (doc #57442), dated May 10, 2010, as submitted by Foth Infrastructure and Environment and approved on May 27, 2010; and modified by an addendum (doc #73636) dated July 31, 2012 and approved on December 18, 2012, and the following:

- a. These plan modifications constitute notification in accordance with 567 IAC 100.5 of waste excavation as it relates to leachate recirculation activities.
  - b. Leachate application is restricted to only those MSWLF units with a composite liner constructed in accordance with paragraph 113.7(5)“a”.
  - c. The leachate recirculation system shall not contaminate waters of the state, contribute to erosion, damage cover material, harm vegetation, or spray persons at the MSWLF facility, pursuant to paragraph 113.8(2)“h”.
  - d. Leachate shall not be applied on user vehicle access areas.
  - e. Leachate shall not be applied to vegetated areas or frozen waste cover. A means of frost protection must be provided for all leachate control elements.
  - f. Leachate shall be spray-applied evenly on the working area.
  - g. Leachate recirculation shall be conducted only during hours of operation and when an operator is on duty.
  - h. If applicable, leachate shall be spray-applied in a manner such that ponding or runoff will not occur.
  - i. Leachate recirculation shall be controlled such that not more than one foot of leachate head will be allowed to accumulate above the MSWLF unit liner.
  - j. Records shall be maintained as to the time and quantities of leachate application and be submitted with the facility Annual Leachate Control System Performance Evaluation Report (LCSPER).
  - k. Leachate recirculation shall be immediately terminated if it causes prolonged ponding, runoff, excessive odor, vector control problems, vapor drift, ice formation, or operational problems. The DNR’s local Field office shall be immediately notified if any of the above events occur.
6. The permit holder shall conduct subsurface gas monitoring in accordance with the Landfill Gas Monitoring Plan contained in Appendix E of the Permit Renewal Application (doc #94064), dated December 31, 2018 as submitted by HDR, and the following:
- a. The permit holder shall quarterly monitor and annually report site methane concentrations in accordance with rule 113.9(455B). Specific actions, as defined in the rules, shall be taken in the event of methane gas level limit exceedances.
  - b. The permit holder shall annually submit a report by January 31 summarizing the methane gas monitoring results and any action taken resulting from gas levels

exceeding the specified limits during the previous 12 months as a supplement to the facility Annual Water Quality Report, as defined in subrule 113.10(10).

7. Based on a completed and certified site risk assessment meeting the requirements outlined in Iowa Code section 455B.305(6), the permit holder was conditionally exempted under the Department letter (doc #8283) dated September 27, 1995, from providing and implementing a leachate control plan for disposal areas A1 and A2 that received wastes prior to July 1, 1992.

Continued exemption is subject to control of leachate at the site and compliance with the groundwater sampling and analysis requirements pursuant to subrule 113.10(4). In the event that these conditions are violated, the permit holder shall be required to comply with the environmental corrective action requirements pursuant to rule 113.10(455B).

8. In accordance with the disposal of untreated petroleum contaminated soils (PCS) variance request (doc #93953) to 567.109.11(2) dated December 10, 2018, and approved (doc #93973) on December 11, 2018, as submitted by the permit holder, the permit holder is authorized to directly dispose of untreated PCS at the working face until this permit's expiration date; and the following:

- a. The PCS must be immediately buried at the working face pursuant to 567.113.8(1)"b"(3).
- b. The untreated PCS must not contain free liquids pursuant to 567.113.8(1)"b"(1).
- c. PCS resulting from the cleanup of petroleum underground storage tanks are exempt from RCRA hazardous waste management if the soil 1) exhibits the TC for D018-D043, and 2) are subject to the corrective action requirements in 40 CFR Part 280 of the UST regulations. This exemption does not apply to petroleum contaminated media resulting from spills or releases from above ground storage tanks, other surface spills, or if the PCS becomes contaminated with a listed hazardous waste.
- d. PCS meeting the above-referenced criteria is deemed a "solid waste" and therefore applicable waste flow and tonnage fee requirements will need to be adhered. PCS may continue to be received for remediation pursuant to subrule 109.11(2), or accepted from outside the planning area for disposal as long as the provisions of IAC 567 Chapter 101.4 are followed (i.e. maintain written approvals).

9. The permit holder is authorized to use alternative daily covers by the trade names Topcoat and Posi-Shell as a substitute for the six-inch daily soil cover requirement. Use of this material is subject to the following:

- a. This product shall not be used as a substitute for intermediate or final soil cover.

- b. All landfill operations personnel shall be trained by the alternative cover material manufacturer, or by an operator that has been trained by the manufacturer. The operator shall ensure that the product slurry is prepared according to the manufacturer's nominal slurry mix specifications.
  - c. Leachate is approved for use as make-up water in the preparation of the product.
  - d. The waste shall be compacted, before this product is applied, to provide an even surface to minimize ponding, prevent pockets, and to maximize uniform surface drainage.
  - e. This product shall be applied to the active waste face at the end of each day of operations and more frequently if necessary to control fire or fire hazards, blowing litter, scavenging, odors, insects, rodents, birds and other vectors. This product shall be cross-applied when necessary to provide effective cover.
  - f. If this product does not set within one hour of application, the workface shall be covered with six inches of compacted soil or a fresh application of this product. The term set means form a cohesive barrier layer that adheres to the waste and resists washing off by precipitation. This product shall not be exposed for more than five (5) days. After five days, any area exposed with this product shall be either covered with a new lift of waste, a fresh application of this product, or six inches of compacted soil.
  - g. The operator shall inspect each application of this product for thorough coverage and cover integrity. If operational problems arise from the use of this product or its method of application, the use of this product shall be suspended until proper corrections are made by the operator, with six inches of compacted daily cover being utilized during this interim period.
  - h. If, at any time, the DNR or permit holder deems this product to be ineffective or otherwise unsatisfactory, the permit holder shall immediately revert to soil or another previously approved alternative daily cover. The permit holder shall immediately notify the DNR's Main and local Field office through both written and verbal notification of this action. This notification is not necessary if use of this product ceases only on a temporary basis, such as during adverse operational or weather conditions.
  - i. Nothing in this provision shall be construed to authorize any waiver from the requirements of any other applicable state solid waste laws or regulations, or any deviations from permit provisions.
  - j. This provision shall not be interpreted to release the permit holder from responsibility under the Groundwater Protection Act for remedying conditions resulting from any release of contaminants to the environment.
10. The permit holder is authorized to use a geotextile by the trade name tarpARMOR, as an alternative cover material for the active MSWLF unit, subject to the following:

- a. The use and installation of this product shall be in conformance with the manufacturer's recommendations.
  - b. This product shall only be used as a daily alternative cover material and shall not be utilized as a replacement for soil cover if application performance in terms of litter, vector, odor, and precipitation entry control is not provided.
  - c. This product shall be applied so as not to promote water ponding, or drainage run-on from adjacent upper and side MSWLF unit areas beneath the installed geotextile.
  - d. This product shall be weighted at the close of each working day to prevent displacement by wind through the use of soil or tires.
  - e. This product shall not be exposed for longer than **seven (7)** consecutive days. For any waste covered with this product beyond the stipulated time frame, the product shall be removed and the underlying waste shall be immediately covered with soil in accordance with the applicable IAC rules.
  - f. This product shall not be used if it becomes damaged or worn, or if the intended performance is breached. In such instances, this product shall be disposed of as a part of the waste fill.
  - g. The operator shall inspect each application of this product for thorough coverage and cover integrity. If operational problems arise from the use of this product or its method of application, the use of this product shall be suspended until proper corrections are made by the operator, with six inches of compacted daily cover being utilized during this interim period.
  - h. If, at any time, the DNR or permit holder deems this product to be ineffective or otherwise unsatisfactory, the permit holder shall immediately revert to soil or another previously approved alternative daily cover. The permit holder shall immediately notify the DNR's Main and local Field office through both written and verbal notification of this action. This notification is not necessary if use of this product ceases only on a temporary basis, such as during adverse operational or weather conditions.
11. The permit holder is authorized to collect, process, grind, or chip trees, limbs, brush, and clean wood wastes free of coatings and preservatives, for the purposes of reuse as bedding material, mulch, soil conditioner, compost bulking material; or for other beneficial reuses, in accordance with the following:
- a. Trees, limbs, brush, and clean wood wastes shall not be stored for a period exceeding twelve (12) months before processing.
  - b. Ground or chipped materials shall not be allowed to accumulate such that the stockpiles are not completely reused within twelve (12) months of initial stockpiling.

- c. The processed materials may be used as mulch or soil conditioner for off-site purposes and on landfill areas with intermediate and final cover and on soil borrow areas.
  - d. Mulch or soil conditioner applied to existing vegetated landfill areas shall be applied at a rate such that established vegetation is not adversely impacted by its use.
12. The permit holder is authorized to collect grass clippings, leaves and garden wastes for the purposes of land application reuse as mulch, soil conditioner or for other beneficial reuses.
- a. Non-composted yard waste shall not be stored for more than two (2) weeks before land application.
  - b. All non-biodegradable bags and containers shall be removed prior to land application.
  - c. The wastes may be used as mulch or soil conditioner for off-site purposes and on landfill areas with intermediate and final cover and on soil borrow areas.
  - d. Yard waste shall be land applied at a rate not to exceed 2 tons per year per acre.
  - e. Mulch or soil conditioner applied to existing vegetated landfill areas shall be applied at a rate such that established vegetation is not adversely impacted by its use.
13. The permit holder is authorized to accept and temporarily store a maximum of 1500 waste tire equivalents for the purpose of reclamation processing or disposal. Tire storage and processing shall be conducted at approved plan locations. The tires shall be removed at least once every 120 days and transported to the appropriate reclaimer/processor, or disposed of at the site. All operations shall be in accordance with subrule 109.10(3), IAC 567 Chapter 117 and the current local fire code.
14. The permit holder is authorized to collect and temporarily store used oil for recycling purposes. The storage tank(s) shall be designed and maintained to prevent the spillage or discharge of used oil. Absorbent material shall be available at the tank site for use by the operator to control used oil spillage or discharge. The used oil shall be processed in accordance with IAC 567 Chapter 119. The maximum length of time for storage is twelve (12) months.
15. The permit holder is authorized to temporarily store white goods and scrap metal in an area designated by the operator. No discarded appliance may be stored for more than 270 days without being demanufactured. No scrap metal or discarded appliance may be stored for more than a total of twelve (12) months, including demanufacturing processing, prior to being recycled/salvaged. The operator and salvaging contractor shall comply with applicable provisions of IAC 567 Chapter 118 and the General Provisions of this permit. No scavenging shall be allowed.
16. The permit holder is authorized to accept and temporarily store lead acid batteries for recycling purposes. Lead acid batteries must be stored in a designated area which will

curtail movement of acids and provide proper ventilation of gases from the batteries. The maximum length of time for storage is twelve (12) months.

17. The permit holder is authorized to collect and temporarily store rigid recyclable wastes (e.g., metal cans, glass bottles and plastic bottles) and fiber recyclable wastes (e.g., magazines, catalogs, books, envelopes and paper) in segregated recycling boxes located near the landfill entrance. The following conditions and procedures shall apply:
  - a. The recyclables shall not be stored for a period exceeding six (6) months.
  - b. The recycle boxes shall be fitted with lids to prevent precipitation entry and to control litter.
  - c. Separate boxes should be provided to segregate metals and plastics to facilitate recycling recovery.
  - d. Recycling boxes shall be labeled to facilitate public use.
  - e. Records shall be maintained to document amounts of waste recycled for quarterly Solid Waste Fee reporting and the dates that each box content is removed from the site for recycling to confirm storage time limitations.
  - f. Recycling activities shall be monitored to insure that no other disposable wastes are stored in recycle boxes.
  - g. Farm chemical containers shall not be stored in recycling boxes. Separate authorization for this purpose shall be secured by permit amendment.
18. The permit holder is authorized to operate a satellite temporary storage center for collection of eligible household hazardous material (HHM) and conditionally exempt small quantity generator (CESQG) wastes from the approved service area and in accordance with the plans contained in Appendix J of the Permit Renewal Application (doc #94064), dated December 31, 2018 as submitted by HDR. All eligible wastes collected at this facility shall be temporarily stored in 55-gallon drums or totes to be kept inside the approved building. Periodically, the wastes shall be transported to the host site at the Metro Waste Authority's HHM RCC facility under permit #77-SDP-46-94P-HHM for lab packing and transport to a permitted hazardous waste disposal facility. Hazardous materials shall not be stored for longer than 180 days.
19. The permit holder shall close the landfill site in accordance with the Closure/Post Closure Plan contained in Attachment 3 in the in the Permit Renewal Request (doc #79327), dated January 24, 2014, as submitted by Foth Infrastructure and Environment; and the following:
  - a. The unlined A1 and A2 disposal areas are closed. Final cover consisting of two feet of clay compacted to a permeability of  $1 \times 10^{-7}$  cm/sec, overlain by a two-foot thick, loosely



compacted soil layer with vegetation has been constructed over these areas in accordance with the following documentation:

- I. The Construction Certification Report – A1 Closure and included Record Drawing related to a partial closure project on the sideslopes of Area A1, both dated August 26, 2004, as submitted by FOX Engineering Associates, Inc. and approved on September 17, 2004; are incorporated into the permit.
  - II. The Cover Construction Certification for final cover installed over portions of disposal areas A1 and A-2 during 2006, 2007, and 2008, as contained in Attachment K of the Development, Operations, and Implementation Plan and Compliance Schedule, dated July 18, 2008, and Attachment D of the Response to Permit Renewal Questions, dated October 31, 2008, as approved on January 12, 2009 are incorporated into the permit.
  - III. The final cover construction certification documentation for 2.8 acres of the unlined portion of the landfill, dated March 1, 2010, as submitted by Foth Infrastructure and Environment and approved on May 27, 2010, is incorporated into the permit.
  - IV. The final cover construction documentation for approximately 9.7 acres of the A1/A2 disposal area, dated February 23, 2011 and amended in a report dated May 16, 2011, submitted by Foth Infrastructure and Environment and approved on June 2, 2011, is approved and incorporated into the permit.
  - V. The A1/A2 closure area documentation, dated September 23, 2011, as submitted by Foth Infrastructure and Environment and approved on April 30, 2012, is incorporated into the permit.
- b. Effective control of leachate in unlined units shall be evaluated on a case-by-case basis to determine how to achieve the lowest possible leachate head; and by complying with the environmental monitoring and corrective action requirements for groundwater and surface water.