Hazardous Waste Permit No. 50358
EPA ID. No. TXD988088464
ISWR No. 50358

Texas Commission on Environmental Quality Austin, Texas

Permit for Industrial Solid Waste Management Site issued under provisions of Texas Health and Safety Code ANN. Chapter 361 and Chapter 26 of the Texas Water Code

Name of Permittee:	Waste Control Specialists LLC P.O. Box 1129 Andrews, Texas 79714 Department of Energy, Co-Operator for Compartments 6, 7, 8, and 9 of the Container Storage Building 1000 Independence Ave, SW Washington, DC 20585
Site Owner:	Waste Control Specialists LLC P.O. Box 1129 Andrews, Texas 79714
Registered Agent for Service:	Corporation Service Company 211 East 7 Street, Suite 620 Austin, Texas 78701
Classification of Site:	Hazardous and Nonhazardous, Class 1, Class 2 and Class 3 industrial solid waste, off-site storage, processing, and disposal, commercial facility.

The permittee is authorized to manage wastes in accordance with the limitations, requirements, and other conditions set forth herein. This permit is granted subject to the rules of the Commission and other Orders of the Commission, and laws of the State of Texas. This permit does not exempt the permittee from compliance with the Texas Clean Air Act. This permit will be valid until canceled, amended, modified or revoked by the Commission, except that the authorization to store, process and dispose of wastes shall expire midnight, ten (10) years after the date of this renewal permit approval. This permit was originally issued on August 5, 1994, and subsequently renewed on October 5, 2005.

All provisions in this permit stem from State and/or Federal authority. Those provisions marked with an asterisk (*) stem from Federal authority and will implement the applicable requirements of Hazardous and Solid Waste Amendments of 1984 (HSWA) for which the Texas Commission on Environmental Quality has not been authorized. Those provisions marked with a double asterisk (**) stem from federal authority only.

Issued Date: July 19, 2021

For the Commission

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Permit/Compliance Plan Acronyms

ACL – Alternate Concentration Limit
AAL - Attenuation Action Level(s)
ALR – Action Leakage Rate
AMP – Attenuation Monitoring Point
AOC – Area(s) of Concern
APA – Affected Property Assessment
APAR – Affected Property Assessment Report
APOE – Alternate Point of Exposure
Appendix VIII – 40 CFR 261, Appendix VIII (Identification and Listing of Hazardous Waste - Hazardous Constituents)
ASTM – American Society for Testing and Materials
BGS – Below Ground Surface
BLRA – Baseline Risk Assessment
CAO – Corrective Action Observation
CAS – Corrective Action System
CCC – Coastal Coordination Council
CEMS – Continuous Emissions Monitoring System
CFR – Code of Federal Regulations
CMI – Corrective Measures Implementation
CMP – Texas Coastal Management Program
CMS – Corrective Measures Study
COC – Constituent(s) of Concern
EPA – United States Environmental Protection Agency
EPA SW-846 – Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, Third Edition, November 1986
GWPS – Groundwater Protection Standard
HSWA – Hazardous and Solid Waste Amendments of 1984
ICM – Interim Corrective Measures
LDR – Land Disposal Restrictions
MDL – Method Detection Limit
MQL – Method Quantitation Limit
MSL – Mean Sea Level
NAPL – Non-Aqueous Phase Liquid
NOR – Notice of Registration
PCB – Polychlorinated Biphenyl
PCL – Protective Concentration Level
PMZ – Plume Management Zone
POC – Point of Compliance
POE – Point of Exposure
ppm – Parts Per Million
ppmv – Parts Per Million by Volume
PQL – Practical Quantitation Limit
Psi – Pounds Per Square Inch
QA/QC – Quality Assurance/Quality Control
RACR – Response Action Completion Report
RAER – Response Action Effectiveness Report
RAP – Response Action Plan (for Action Leakage Rate in landfills)
RAP – Remedial Action Plan
RCRA – Resource Conservation and Recovery Act
RFA – RCRA Facility Assessment
RFI – RCRA Facility Investigation

RRR – TCEQ Risk Reduction Rules
RRS - Risk Reduction Standard
RSA – Remedy Standard A
RSB – Remedy Standard B
SR/WM – Source Reduction and Waste Minimization
SSI – Statistically Significant Increase
SWDA – Solid Waste Disposal Act
SWMU – Solid Waste Management Unit(s)
TAC – Texas Administrative Code
TCEQ – Texas Commission on Environmental Quality
TCEQ QAPP – "Quality Assurance Project Plan for Environmental Monitoring and Measurement Activities Relating to the Resource Conservation and Recovery Act and Underground Injection Control"
THC – Total Hydrocarbons
TRRP – Texas Risk Reduction Program

I. Facility Description

A. Size and Location of Site

A permit is issued to Waste Control Specialists LLC and the Department of Energy (DOE) (DOE's authorization is limited to Co-Operator of the Container Storage Building Compartments 6, 7, 8, and 9 for the storage of elemental mercury as described in Provision IV.B.8.) (hereafter called the permittee), to operate a hazardous waste processing, storage, and disposal facility located at 9998 West State Highway 176 and 400 feet East of the Texas-New Mexico state line and approximately 30 miles West of Andrews, in Andrews County, Texas, and within the drainage area of Upper Pecos River in Segment 2311 of the Rio Grande River Basin (North Latitude 32 26' 27.4", West Longitude 103 03' 22.7"). The legal description of the facility submitted in Permit No. 50358 application submittals dated March 20, 2015, and revised May 26, 2015, June 5, 2015, November 13, 2017, April 30, 2018, June 18, 2018, is hereby made a part of this permit as "Attachment A". The hazardous waste management facility as delineated by the permittee's application map is hereby made a part of this permit as "Attachment B".

B. Incorporated Application Materials

This permit is based on, and the permittee shall follow the Part A and Part B Industrial & Hazardous Waste Application submittals dated March 20, 2015, the revisions to the permit and permit application that are listed in "Attachment C," and the Application Elements listed in "Attachment D," which are hereby approved subject to the terms of this permit and any other orders of the Texas Commission on Environmental Quality (TCEQ). These materials are incorporated into this permit by reference as if fully set out herein. Any and all revisions to these elements shall become conditions of this permit upon the date of approval by the Commission.

II. General Facility Standards

A. Standard Permit Conditions

The permittee has a duty to comply with the Standard Permit Conditions under 30 Texas Administrative Code (TAC) Section 305.125. Moreover, the permittee has a duty to comply with the following permit conditions:

1. Modification of Permitted Facilities

The facility units and operational methods authorized are limited to those described herein and by the application submittals identified in Section I.B. All facility units and operational methods are subject to the terms and conditions of this permit and TCEQ rules. Prior to constructing or operating any facility units in a manner which differs from either the related plans and specifications contained in the permit application or the limitations, terms or conditions of this permit, the permittee must comply with the TCEQ permit amendment/modification rules as provided in 30 TAC Sections 305.62 and 305.69.

2. Duty to Comply

   The permittee must comply with all the conditions of this permit, except that the permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized in an emergency order issued by the Commission. Any permit noncompliance, other than noncompliance authorized by an emergency order, constitutes a violation of the Resource Conservation and Recovery Act (RCRA) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [30 TAC Section 305.142]

3. Severability

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

4. Definitions

   For purposes of this permit, terms used herein shall have the same meaning as those in 30 TAC Chapters 305, 335, and 350 unless this permit specifically provides otherwise; where terms are not defined in the regulations or the permit, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

   Application data - data used to complete the final application and any supplemental information.

5. Permit Expiration

   In order to continue a permitted activity after the expiration date of the permit the permittee shall submit a new permit application at least 180 days before the expiration date of the effective permit, unless permission for a later date has been granted by the Executive Director. Authorization to continue such activity will terminate upon the effective denial of said application.

6. Certification Requirements

   For a new facility, the permittee may not commence storage, processing, or disposal of solid waste; and for a facility being modified, the permittee may not process, store or dispose of solid waste in the modified portion of the facility, except as provided in 30 TAC Section 305.69 (relating to Solid Waste Permit Modification at the Request of the Permittee) until the following has been accomplished [30 TAC Section 305.144]:

a. The permittee has submitted to the Executive Director and the local Regional Office of the TCEQ, by certified mail or hand delivery, a letter signed by the permittee, and signed and sealed by a Texas Professional Engineer stating that the facility has been constructed or modified in compliance with the permit. If the certification is being provided to document proper closure of a permitted unit, or to certify installation or repair of a tank system, then the certification must be signed and sealed by an independent Texas licensed Professional Engineer. Required certification shall be in the following form:

"This is to certify that the following activity (specify activity, e.g., construction, installation, closure, etc., of an item) relating to the following item (specify the item, e.g., the particular facility, facility unit, unit component, subcomponent part, or ancillary component), authorized or required by TCEQ Permit No. 50358 has been completed, and that construction of said facility component has been performed in accordance with and in compliance with good engineering practices and the design and construction specifications of Permit No. 50358."

b. A certification report has been submitted, with the certification described in Provision II.A.6.a., which is logically organized and describes in detail the tests, inspections, and measurements performed, their results, and all other bases for the conclusion that the facility unit, unit component, and/or closure have been constructed, installed and/or performed in conformance with the design and construction specifications of this permit and in compliance with this permit. The report shall describe each activity as it relates to each facility unit or component being certified including reference to all applicable permit provisions. The report shall contain the following items, at a minimum:

(1) Scaled, as-built plan-view and cross-sectional drawings which accurately depict the facility unit and all unit components and subcomponents and which demonstrate compliance with the design and construction specifications approved and detailed in the terms of this permit;

(2) All necessary references to dimensions, elevations, slopes, construction materials, thickness and equipment; and

(3) For all drawings and specifications, the date, signature, and seal of a Professional Engineer who is licensed in the State of Texas.

c. The Executive Director has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit; or if within fifteen (15) days of submission of the letter required by paragraph (a) of this section, the permittee has not received notice from the Executive Director of the intent to inspect, prior inspection is waived and the permittee may commence processing, storage, or disposal of solid waste.

7. Land Disposal Restrictions

   The permittee shall comply with the land disposal restrictions as found in 40 Code of Federal Regulations (CFR) 268 and any subsequent applicable requirements promulgated through the Federal Register. Requirements include modifying/amending the permittee's waste analysis plan to include analyses to determine compliance with applicable treatment standards or prohibition levels, pursuant to 40 CFR 268.7(c) and 264.13(a).

8. Dust Suppression

   Pursuant to 40 CFR 266.23(b)/30 TAC Section 335.214(b), the permittee shall not use waste, used oil, or any other material which is contaminated with dioxin, polychlorinated biphenyls (PCBs), or any other hazardous waste (other than a waste identified solely on the basis of ignitability) for dust suppression or road treatment.

9. Permit Reopener

   This permit shall be subject to review by the Executive Director five (5) years from the date of permit issuance or reissuance and shall be modified as necessary to assure that the facility continues to comply with currently applicable requirements of the Solid Waste Disposal Act (SWDA) and the rules and regulations of the Commission. The permittee shall submit any information as may be reasonably required by the Executive Director to ascertain whether the facility continues to comply with currently applicable requirements of the SWDA and the rules and regulations of the Commission.

10. Texas Coastal Management Program - Reserved

11. Monitoring of Commercial Hazardous Waste Management Facility Operations

    Within the first year after Commission initial action on this permit and any subsequent amendment, modification, transfer, extension, or renewal of this permit, the permittee shall provide notice to affected persons of the intent to have an independent annual environmental audit of the facility performed. The notice shall be issued in accordance with the requirements of 30 TAC Section 305.147(1). If an affected party requests the audit, then the permittee must follow the requirements of 30 TAC Sections 305.147(2)-(6), and (8), for selecting an independent inspector, paying for the notice and audit, submission of a written report, and determining the scope of the inspection.

12. Failure to Submit Relevant Facts in Permit Application

    Where the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or any report to the Executive Director, the permittee shall promptly submit the correct information or facts to the Executive Director. [30 TAC Section 305.125(19)]

13. Hazardous Waste Combustion Facility Provision - Reserved

[II - General Facility Standards]

14. Waste Management Fee Assessment, Fee Payment, and Records and Reporting

a. If applicable, the permittee is subject to the assessment of fees for hazardous wastes which are stored, processed, disposed, or otherwise managed and for Class 1 industrial wastes which are disposed at a commercial facility. [30 TAC Section 335.325]

b. As applicable and except as provided in Provision II.A.14.c., the permittee shall pay waste management fees monthly. Monthly fee payments shall be due by the 25th day following the end of the month for which payment is due. [30 TAC Section 335.328(b)]

c. If required, the permittee owes waste management fees in an amount less than $500 for a calendar month or less than $1,500 for a calendar quarter, the permittee may file a quarterly report and pay a quarterly fee. [30 TAC Section 335.328(c)]

d. If required, the permittee shall document the basis for the assessment of any applicable waste management fees, including any adjustment to or exemption from assessment. [30 TAC Section 335.329(b)(4)]

e. If required, the permittee shall submit a monthly report of on-site waste management activities subject to the assessment of waste management fees on forms furnished or approved by the Executive Director. This report shall be due by the 25th day following the end of the month (or quarter) for which a report is made. Monthly (or quarterly) reports shall be submitted, regardless of whether any storage, processing, or disposal was made during a particular month (or quarter), by preparing and submitting a summary indicating that no waste was managed during that month (or quarter). [30 TAC Section 335.329(b)(5)]

f. As applicable, the permittee shall maintain the required records and reports in accordance with 30 TAC Sections 335.329(c) and (d).

15. Transfer of Ownership and/or Operational Control

The transfer of ownership and/or operational control of this permit is subject to the transfer requirements of 30 TAC Section 305.64 and permit modification requirements of 30 TAC Section 305.69. The new owner and/or operator seeking a transfer of ownership and/or operational control of this permit shall submit a Class 1^{1} permit modification (with prior written approval by the Executive Director) at least 90 days prior to the scheduled transfer in accordance with 30 TAC Section 305.69(b)(2). Prior to the Executive Director issuing the permit modification transferring the permit, the new owner or operator shall provide a fully executed financial assurance mechanism satisfactory to the TCEQ Executive Director, for all existing units which have received waste and any corrective action required under this permit, in compliance with 30 TAC Chapter 37, Subchapter P. [30 TAC Section 305.64(g)]

[II - General Facility Standards]

B. Recordkeeping and Reporting Requirements

1. Monitoring and Records

a. All data submitted to the TCEQ shall be in a manner consistent with the latest version of the "Quality Assurance Project Plan for Environmental Monitoring and Measurement Activities Relating to the Resource Conservation and Recovery Act and Underground Injection Control" (TCEQ QAPP).

b. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity. The method used to obtain a representative sample of the material to be analyzed shall be the appropriate method from Appendix I of 40 CFR Part 261 or an equivalent method approved in writing prior to use by the Executive Director of the TCEQ. Laboratory methods shall be the latest version specified in current edition of Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846 (EPA SW-846); Standard Methods for the Examination of Water and Wastewater; RCRA Groundwater Monitoring: Draft Technical Guidance, 1992, OSWER Directive 9950.1, or an equivalent method;, as specified in the Waste Analysis Plan, Section/Attachment IV of the Part B Application, and approved in writing prior to use by the Executive Director. [30 TAC Section 305.125(11)(A)]

c. The permittee shall retain in an organized fashion and furnish to the Executive Director, upon request, records of all monitoring information, copies of all reports and records required by this permit, and the certification required by 40 CFR 264.73(b)(9), for a period of at least three (3) years from the date of the sample, measurement, report, record, certification, or application. [30 TAC Section 305.125(11)(B)]

d. Records of monitoring shall include the following [30 TAC Section 305.125(11)(C)]:

(1) The date, time, and place of sample or measurement;

(2) The identity of individual who collected the sample or measurement;

(3) The dates analyses were performed;

(4) The identity of individual and laboratory who performed the analyses;

(5) The analytical techniques or methods used; and

(6) The results of such analyses or measurements.

e. All engineering and geoscientific information submitted to the TCEQ shall be prepared by, or under the supervision of, a licensed professional engineer or licensed professional geoscientist, and shall be signed, sealed, and dated by qualified professionals as required by the Texas Engineering Practice Act and the Texas Geoscience Practice Act and the licensing and registration boards under these acts.

2. Operating Record

In addition to the recordkeeping and reporting requirements specified elsewhere in this permit, the permittee shall maintain a written operating record at the facility, in accordance with 40 CFR 264.73. These records will be made available to representatives of the TCEQ upon request.

3. Retention of Application Data

Throughout the terms of the permit, the permittee shall keep records of data used to complete the final application and any supplemental information. All copies of renewals, amendments, revisions and modifications must also be kept at the facility such that the most current documents are available for inspection at all times. All materials, including any related information, submitted to complete the application shall be retained, not just those materials which have been incorporated into the permit. [30 TAC Section 305.47]

4. Reporting of Noncompliance

The permittee shall report to the Executive Director of the TCEQ information regarding any noncompliance which may endanger human health or the environment. [30 TAC Section 305.125(9)]

a. Report of such information shall be provided orally within twenty-four (24) hours from the time the permittee becomes aware of the noncompliance.

b. A written submission of such information shall also be provided within five (5) days of the time the permittee becomes aware of the noncompliance. The written submission shall contain the following:

(1) A description of the noncompliance and its cause;

(2) The potential danger to human health or safety, or the environment;

(3) The period of noncompliance, including exact dates and times;

(4) If the noncompliance has not been corrected, the anticipated time it is expected to continue; and

(5) Steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance, and to mitigate its adverse effects.

5. Twenty-Four Hour Reporting

The following shall be included as information which must be reported orally within twenty-four (24) hours pursuant to 30 TAC Section 305.125(9) [30 TAC Section 305.145]:

a. Information concerning release of any solid waste that may cause an endangerment to public drinking water supplies; and

b. Any information of a release or discharge of solid waste, or of a fire or explosion which could threaten the environment or human health or safety, outside the facility. The description of the occurrence and its cause shall include:

(1) Name, address, and telephone number of the owner or operator;

(2) Name, address, and telephone number of the facility;

(3) Date, time, and type of incident;

(4) Name and quantity of material(s) involved;

(5) The extent of injuries, if any;

(6) An assessment of actual or potential hazards to the environment and human health or safety outside the facility, where this is applicable; and

(7) Estimated quantity and disposition of recovered material that resulted from the incident.

6. Notice Waiver

The Executive Director may waive the five (5) day written notice requirement specified in Provision II.B.4.b. in favor of a written report submitted to the Commission within fifteen (15) days of the time the permittee becomes aware of the noncompliance or condition. [30 TAC Section 305.145(b)]

7. Biennial Report

The permittee shall prepare and submit to the Executive Director all information and records required by 40 CFR 264.75. By March 1st of each even-numbered year for the preceding odd-numbered year's activities the permittee shall submit either a Biennial Report or letter certifying submission of the above. One copy of the report/letter shall be submitted to the TCEQ Industrial & Hazardous Waste Permits Section and an additional copy shall be submitted to the appropriate TCEQ Regional Office.

[II - General Facility Standards]

8. Pollution Prevention

   Facilities subject to 30 TAC Chapter 335, Subchapter Q - Pollution Prevention: Source Reduction and Waste Minimization must prepare a five (5) year Source Reduction and Waste Minimization Plan and submit a Source Reduction and Waste Minimization (SR/WM) Annual Report to the TCEQ Environmental Assistance Division. This report must be submitted annually on the dates specified in the rule.

9. Annual Detection Monitoring Report

   The permittee shall submit an Annual Detection Monitoring Report as required by Section VI.G. of this permit by March 1st of each year.

10. Manifest Discrepancy Report

    If a significant discrepancy in a manifest is discovered, the permittee must attempt to reconcile the discrepancy. If not resolved within fifteen (15) days, the permittee must submit a report, describing the incident, to the Executive Director, as per the requirements of 30 TAC Section 335.12. A copy of the manifest must be included in the report.

11. Unmanifested Waste Report

    A report must be submitted to the Executive Director within fifteen (15) days of receipt of unmanifested waste, as per the requirements of 30 TAC Section 335.15(3).

12. Monthly Summary

    The permittee shall prepare a monthly report, of all manifests received during the month, summarizing the quantity, character, transporter identity, and the method of storage, processing and disposal of each hazardous waste or Class 1 waste shipment received, itemized by manifest document number. This monthly summary report shall be submitted to the TCEQ Registration and Reporting Section on or before the 25th day of each month for waste received during the previous month. [30 TAC Section 335.15(2)]

C. Incorporated Regulatory Requirements

1. State Regulations

   To the extent applicable to the activities authorized by this permit, the following TCEQ regulations are hereby made provisions and conditions of the permit.

   a. 30 TAC Chapter 37, Subchapter P: Financial Assurance for Hazardous and Nonhazardous Industrial Solid Waste Facilities;

   b. 30 TAC Chapter 305, Subchapter A: General Provisions;

   c. 30 TAC Chapter 305, Subchapter C: Application for Permit or Post-Closure Order;

[II - General Facility Standards]

d. 30 TAC Sections 305.61 - 305.69 (regarding amendments, renewals, transfers, corrections, revocation and suspension of permits);

e. 30 TAC Sections 305.121 - 305.125 (regarding permit characteristics and conditions);

f. 30 TAC Sections 305.127 - 305.129 (regarding permit conditions, signatories and variance procedures);

g. 30 TAC Chapter 305, Subchapter G: Additional Conditions for Hazardous and Industrial Solid Waste Storage, Processing or Disposal Permits;

h. 30 TAC Chapter 335, Subchapter A: Industrial Solid Waste and Municipal Hazardous Waste in General;

i. 30 TAC Chapter 335, Subchapter B: Hazardous Waste Management General Provisions;

j. 30 TAC Chapter 335, Subchapter C: Standards Applicable to Generators of Hazardous Waste;

k. 30 TAC Section 335.152, Standards;

l. 30 TAC Sections 335.153 - 335.155 (regarding reporting of emergency situations and additional reports required);

m. 30 TAC Sections 335.156 - 335.167 (regarding applicability of groundwater monitoring programs and corrective action requirements);

n. 30 TAC Sections 335.168 - 335.169 (regarding the design and operating requirements and closure and post-closure care of surface impoundments);

o. 30 TAC Sections 335.173 - 335.174 (regarding the design and operating requirements and closure and post-closure care of landfills);

p. 30 TAC Sections 335.175 - 335.176 (regarding special requirements for containers and bulk and containerized waste);

q. 30 TAC Sections 335.177 - 335.179 (regarding general performance standard, cost estimate for closure, and financial assurance);

r. 30 TAC Sections 335.325, 335.328 and 335.329 (regarding waste management fee assessment, fee payment, and records and reports);

s. 30 TAC Chapter 335, Subchapter Q: Pollution Prevention: Source Reduction and Waste Minimization; and

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t. 30 TAC Chapter 350, Texas Risk Reduction Program.

Issuance of this permit with incorporated rules in no way exempts the permittee from compliance with any other applicable state statute and/or Commission Rule.

2. Federal Regulations

To the extent applicable to the activities authorized by this permit, the following provisions of 40 CFR Parts 264 and Part 268, adopted by reference by 30 TAC Section 335.152 and 335 Subchapter O are hereby made provisions and conditions of this permit, to the extent consistent with the Texas Solid Waste Disposal Act, Texas Health and Safety Code Ann., Chapter 361 (Vernon), and the rules of the TCEQ:

a. Subpart B -- General Facility Standards;

b. Subpart C -- Preparedness and Prevention;

c. Subpart D -- Contingency Plan and Emergency Procedures;

d. Subpart E -- Manifest System, Recordkeeping, and Reporting;

e. Subpart G -- Closure and Post-Closure;

f. Subpart H -- Financial Requirements;

g. Subpart I -- Use and Management of Containers;

h. Subpart J -- Tank Systems;

i. Subpart K -- Surface Impoundments;

j. Subpart N -- Landfills;

k. Subpart X -- Miscellaneous Units;

l. Subpart AA -- Air Emission Standards for Process Vents;

m. Subpart BB -- Air Emission Standards for Equipment Leaks;

n. Subpart CC -- Air Emission Standards for Tanks, Surface Impoundments, and Containers;

o. 40 CFR Part 268 -- Land Disposal Restrictions (LDR).

III. Facility Management

A. Operation of Facility

The permittee shall construct, maintain, and operate the facility to minimize the possibility of a fire, explosion, or any unplanned, sudden or non-sudden release of hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment, as required by 40 CFR 264.31. All equipment and structures used to manage hazardous waste at the facility shall be maintained in proper operating condition.

B. Personnel Training

The permittee shall ensure that all facility personnel involved with hazardous waste management successfully complete a training program as required by 40 CFR 264.16. The permittee shall maintain training documents and records, as required by 40 CFR 264.16(d) and (e).

C. Security

1. The permittee shall provide a twenty-four (24) hour surveillance system which continuously monitors and controls entry onto the active portion of the facility.

2. The permittee shall post warning signs at all points of access to the active waste management portion(s) of the facility and along the natural and/or artificial barriers in sufficient numbers to be seen from any approach to that (those) portion(s) of the facility. The signs shall be printed so that they may be clearly read from a distance of at least twenty-five (25) feet, and shall state “Danger - Unauthorized Personnel Keep Out” in English and Spanish.

D. General Inspection Requirements

The permittee shall follow the inspection schedule contained in the permit application submittals identified in Section I.B. of this permit and as set out in Table III.D. - Inspection Schedule. The permittee shall remedy any deterioration or malfunction discovered by an inspection, as required by 40 CFR 264.15(c). Records of inspection shall be kept, as required by 40 CFR 264.15(d). Any remedial actions taken in response to facility inspections and the date of the remediation shall be included in the inspection records.

E. Contingency Plan

1. The permittee shall follow the Consolidated Emergency Response Plan (Contingency Plan), developed in accordance with 40 CFR Part 264 Subpart D, and contained in the permit application submittals identified in Section I.B. of this permit. Copies of this plan shall be available to all employees involved in waste management at the facility.

2. The permittee shall immediately initiate clean-up procedures for removal of any spilled hazardous or industrial nonhazardous wastes and waste residues and shall take all steps necessary to prevent surface water or groundwater contamination as a result of any spills.

[III. Facility Management]

3. Collected hazardous or industrial nonhazardous wastes, spills, leaks, clean-up residues, and contaminated rainfall runoff, including contaminated stormwater from the drainage control system(s) associated with the permitted units, shall be removed promptly after the spillage and/or rainfall event in as timely a manner as is necessary to prevent overflow of the system by the following method(s):

   a. Removal to an on-site authorized facility unit;

   b. Removal to an authorized industrial solid waste management facility or authorized off-site facility; or

   c. Discharge in accordance with a wastewater discharge permit.

4. The permittee shall ensure that any equipment or vehicles which have come in contact with waste in the loading/unloading, storage, processing, and/or disposal areas have been decontaminated prior to their movement into designated uncontaminated areas of the site property. At a minimum, all contaminated equipment shall be externally decontaminated and contaminated vehicles shall have their undercarriages and tires or tracks decontaminated to remove all waste residues and to prevent contamination of uncontaminated areas. All wash water generated shall be collected and disposed of in accordance with Provision III.E.3.

5. Preparedness and Prevention

   a. At a minimum, the permittee shall equip the facility with emergency equipment as required by 40 CFR 264.32 (see Table III.E.3 in Section III of the Part B permit application referenced in Provision I.B of this permit for the list of approved emergency equipment).

   b. All sumps, pumps, fire- and spill-control equipment, decontamination equipment, and all other equipment and structures authorized or required through the Contingency Plan shall be tested and maintained, as necessary, to assure their proper operation in time of emergency, as required by 40 CFR 264.33.

   c. The permittee shall maintain access to the communications or alarm system, as required by 40 CFR 264.34.

   d. A trained emergency coordinator shall be available at all times in case of an emergency and will have the responsibility for coordinating all emergency response measures as required by 40 CFR 264.55 and 264.56. Emergency number(s) shall be posted in all waste management portions of the facility and all employees in those areas shall be trained in the location of those postings.

[III. Facility Management]

F. Special Permit Conditions

1. Use of Leachate as Dust Suppressant:

The permittee may collect leachate from active operating cells (receiving wastes for which interim and final cover has not been placed) and store leachate in storage units (such as containers, frac tanks, mobile tanks, etc.) within the operating cells of the landfill unit for application to the waste surface as a dust suppressant. The collected leachate shall not be stored or used as a dust suppressant outside the operating cells of the landfill unit within which the leachate was originally generated. Further, the permittee shall comply with the following requirements:

a. The permittee shall not apply leachate to the waste surface within a landfill unit in excess of the amount required for dust suppression. The use of leachate as dust suppressant shall be appropriate with the degree of dryness of the exposed landfill face at the time of application. The permittee is prohibited from excessive and/or improper use of leachate as dust suppressant.

b. The permittee shall store collected leachate to be used for dust suppression in containers/tanks within the landfill unit in which the leachate was generated for up to ninety (90) days in accordance with the procedures described in the application and 30 TAC 335.69.

c. The permittee shall remove from the storage units and the leachate collection and leak detection system any excess leachate which will not be used for dust suppression in the operating cells of the landfill unit in which the leachate was generated and shall manage such leachate in accordance with the other provisions of this permit.

d. The permittee shall use the concentrations of the chemical constituents listed in 30 TAC Chapter 335 Subchapter R, Appendix I, Table 1 (cut of concentrations for wastes classified as Class 2 wastes) as action levels for determining allowable chemical constituent concentrations in the leachate to be used as a dust suppressant. In order to ensure that these chemical constituent concentrations do not exceed the levels specified in 30 TAC Chapter 335 Subchapter R, Appendix I, Table 1, the permittee shall sample and analyze the leachate from the landfill at least on an annual basis. The permittee shall submit these sampling and analysis results to the TCEQ within sixty (60) days of sampling the leachate.

e. If routine inspection of leachate samples indicate change in physical appearance (such as odor, color, etc.) or chemical analysis show significant increase in chemical constituent concentrations, then the permittee shall conduct additional analysis of leachate at least semiannually to document that the concentrations are below the action levels specified in 30 TAC Chapter 335 Subchapter R, Appendix I, Table 1. If results of the semi-annual analyses demonstrate that chemical constituent concentrations in the leachate remain below the levels specified in 30 TAC Chapter R, Appendix I, Table 1 for three consecutive semi-annual events, the permittee may resume a minimum annual frequency for leachate sampling and analyses.

f. If analytical results collected in accordance with Provisions III.F.1.d. or III.F.1.e. indicate that any chemical constituent in the leachate used for dust suppression exceeds its respective concentrations specified in 30 TAC Chapter 335, Subchapter R, Appendix I, Table 1, or if the total concentrations of all the chemical constituents listed in 30 TAC Chapter 335, Subchapter R, Appendix I, Table 1, exceed 1%, the leachate shall not be used for dust suppression and shall be removed and managed as appropriate with the other provisions of this permit.

2. The permittee shall comply with the applicable requirements of radioactive license for managing mixed waste at the facility.

3. The financial assurance requirements for the closure or post-closure care of any units authorized under this permit may be satisfied by maintaining financial assurance under other authorizations issued by the TCEQ for the same units. The permittee must provide a demonstration that closure and post-closure care activities and costs required by this permit are covered by the financial assurance provided under the other authorization(s). This demonstration must be provided to the Executive Director by the Permittee prior to any changes to the financial assurance for the waste management activities currently authorized under this permit and other permits/licenses issued by the TCEQ. As necessary, the permittee shall submit a written request for a permit modification or amendment to authorize a change in the approved financial assurance, in accordance with 30 TAC Section 305.69.

IV. Wastes and Waste Analysis

A. Waste Analysis Plan

The permittee shall follow the Waste Analysis Plan, developed in accordance with 40 CFR 264.13 and the permit application identified in Section I.B. of this permit.

B. Authorized Wastes

1. The permittee is authorized to manage hazardous and nonhazardous industrial solid wastes listed in Table IV.B. - Wastes Managed in Permitted Units, subject to the limitations provided herein.

   Wastes authorized for storage and processing and disposal include those generated from facility sources and from off-site sources.

2. Hazardous and Nonhazardous Waste Received From Off-Site Sources

   When the permittee may receive hazardous or nonhazardous waste from an off-site source (except where the permittee is also the generator), the permittee shall inform the generator in writing that the permittee has the appropriate permits and will accept the waste the generator is shipping. The permittee shall keep a copy of this written notice as part of the operating record. [40 CFR 264.12(b)]

3. The wastes authorized in Table IV.B. shall not contain any of the following:

   a. PCB waste, as defined by the Environmental Protection Agency (EPA) in regulations issued pursuant to the Toxic Substances Control Act under 40 CFR Part 761, unless the permittee is compliant with the federal requirements for PCB storage as specified in 40 CFR Part 761;

   b. Radioactive materials/wastes unless the permittee is authorized to store and process these wastes in compliance with specific licensing and permitting requirements under Chapter 401 of the Texas Health and Safety Code. In accordance with 30 TAC Section 336.203, no person shall dispose of radioactive material unless that person has a license or an exemption from the TCEQ under Texas Health and Safety Code, Section 401.106(a);

   c. Explosive material, as defined by the Department of Transportation under 49 CFR Part 173;

   d. Dioxin-containing wastes, identified by EPA as F020, F021, F022, F023, F026, and F027 wastes in 40 CFR 261.31. The permittee is authorized to store a maximum of one (1) 55-gallon drum of dioxin listed wastes at the facility. Prior to accepting additional dioxin containing wastes, the permittee shall seek and obtain Executive Director's approval;

   e. Ignitable compressed gases except aerosol cans;

   f. Garbage as defined in 30 TAC Section 330.3(56);

   g. Municipal Solid Waste as defined in 30 TAC Section 330.3(88);

   h. Putrescible Waste as defined in 30 TAC Section 330.3(119); or

   i. Special Waste from Health-Care Related Facilities subject to 25 TAC Part 1 or 30 TAC Chapter 330.

4. The permittee may accept the following nonhazardous wastes generated from nonindustrial entities:

   a. Asbestos containing materials in accordance with applicable regulations.

   b. Off-specification or spent chemical products.

   c. Remediation and demolition waste (e.g., chemically-impacted soil, personal protective equipment, and building materials.).

   d. PCB wastes if the permittee is complaint with the requirements for PCB storage as specified in 40 CFR Part 761.

e. Prior to accepting wastes identified in Provisions IV.B.4.a.through d., the permittee shall comply with the waste analysis requirements of the waste analysis plan incorporated by reference into this permit and comply with all other conditions of this permit.

f. The permittee shall comply with the applicable requirements of 30 TAC Chapter 335, Subchapter J, and 30 TAC Chapter 330, Subchapter P, related to fees and reporting.

5. Prior to accepting any additional wastes not authorized in Table IV.B., the permittee shall follow the permit amendment or modification requirements listed in 30 TAC Sections 305.62 and 305.69.

6. The permittee may store wastes restricted under 40 CFR Part 268 solely for the purpose of accumulating quantities necessary to facilitate proper recovery, treatment, or disposal provided that it meets the requirements of 40 CFR 268.50(a)(2) including, but not limited to the following:

a. Clearly marking each container to identify its contents and the date each period of accumulation begins; and

b. Clearly marking each tank with a description of its contents, the quantity of each hazardous waste received, and the date each period of accumulation begins, or such information for each tank is recorded and maintained in the operating record at that facility.

c. The permittee is not subject to the requirements of this provision for the elemental mercury waste stored in accordance with Provision IV.B.8.

7. Fourteen days prior to acceptance of waste streams containing radioactive material subject to an exemption of the Texas Commission on Environmental Quality (TCEQ), the permittee shall provide notice in writing to the TCEQ that provides information on the waste and states that the radioactive material is subject to an exemption of the TCEQ. Such notification shall include waste volume, generator identification, physical form, characterization information, and sampling data. In lieu of characterization and sampling data the permittee may provide exemption verification from the U. S. Nuclear Regulatory Commission which is based in TCEQ rule. The permittee shall maintain notification documentation at the facility and the documentation must be made available for review by the staff of the TCEQ upon request.

8. Storage of Elemental mercury to which DOE accepts the conveyance of title pursuant to a legal settlement or proceeding in Compartments 6, 7, 8, and 9 of the permitted Container Storage Building.

a. Subject to any other applicable provisions contained herein, the permittee is authorized to store elemental mercury to which DOE accepts the conveyance of title pursuant to a legal settlement or proceeding in compartments 6, 7, 8, and 9 of the permitted Container Storage Building.

b. As applicable, permittee shall address any recommendations and/or requirements in the Gap Analysis included in the application and incorporated by reference in Section I.B. prior to receipt of elemental mercury shipment. If permittee is not required to comply or unable to comply with the applicable recommendation and/or requirements addressed in the Gap Analysis prior to receipt of elemental mercury shipment, the permittee shall provide justifications and obtain Executive Director's prior approval for not meeting those requirements.

c. The permittee shall comply with the applicable requirements of Section V.B. of this permit for container storage capacity and operating requirements.

d. The permittee shall submit appropriate modifications or amendments to the permit and/or licenses if potential long term storage of elemental mercury requires changes to facility's permitted unit(s), operations, plans and/or procedures which are authorized by this permit. Any revisions or changes shall become conditions of this permit upon the date of approval by the Commission.

e. Notwithstanding any provisions in this permit, the elemental mercury stored in the compartments 6, 7, 8, and 9 of the Container Storage Building are not subject to storage requirements of 40 CFR 268.50.

f. With the exceptions noted in this provision and other permit provisions, the permittee shall operate the compartments 6, 7, 8, and 9 of the Container Storage Building in compliance with this permit and applicable state and federal regulations.

g. As appropriate, the permittee shall comply with all the applicable recommendation and requirements noted in the Gap Analysis and the following published documents developed by DOE for Packaging, Transportation, Receipt, Management, and Potential Long-Term Storage of Elemental Mercury.

(1) The DOE's Interim Guidance on Packaging, Transportation, Receipt, Management, and Long-Term Storage of Elemental Mercury (DOE 2009);

(2) The DOE's Guidance for the Short-Term Storage of Elemental Mercury by Ore Processors, May 2019;

(3) The DOE's Final Long-Term Management and Storage of Elemental Mercury Environmental Impact Statement (DOE/EIS-0423) (DOE 2011);

(4) The DOE's Final Long-Term Management and Storage of Elemental Mercury Supplemental Environmental Impact Statement (DOE/EIS-0423-S1) (DOE 2013); and

(5) The DOE's Supplemental Analysis of the Final Long-Term Management and Storage of Elemental Mercury Environmental Impact Statement (DOE/EIS-423-SA-01 DOE 2019).

h. The permittee is not subject to financial assurance requirements of Section VII.B for the storage of elemental mercury to which DOE accepts the conveyance of title pursuant to a legal settlement or proceeding in the facility subject to this provision.

i. Storage applies for the duration of an active DOE contract for leased space at WCS for the storage of elemental mercury to which DOE accepts the conveyance of title pursuant to a legal settlement or proceeding. At the end of contract period, DOE shall remove any elemental mercury from leased space and shall not have any liability associated with the elemental mercury stored in the leased space.

C. Sampling and Analytical Methods

1. Table IV.C. - Sampling and Analytical Methods, shall be used in conjunction with the Waste Analysis Plan referenced in Section IV.A. of this permit, in performing all waste analyses.

2. The permittee shall ensure that all waste analyses utilized for waste identification or verification have been performed in accordance with methods specified in the current editions of EPA SW-846, American Society for Testing and Materials (ASTM) or other methods accepted by the TCEQ. The permittee shall have a Quality Assurance/Quality Control (QA/QC) program that is consistent with EPA SW-846 and the TCEQ QAPP.

3. The permittee shall test a sufficient number of representative waste samples to assure that free liquids are not placed in the landfill. All testing for free liquids shall be according to Test Method 9095 (Paint Filter Liquids Test - or the most current version) as described in EPA SW-846. The permittee shall comply with Provision V.G.4.n. for management of Land Disposal Restricted (LDR) wastes and wastes containing free liquids

V. Authorized Units and Operations

A. Authorized Units

1. The permittee is authorized to operate the permitted facility units listed in “Attachment E” for storage and processing and disposal subject to the limitations herein. All waste management activities not otherwise exempted from permitting under 30 TAC Section 335.2 shall be confined to the authorized facility units subject to permitting listed in “Attachment E.” References hereinafter in this permit to “TCEQ Permit Unit No____” shall be to the authorized permitted facility units listed in “Attachment E.” All authorized units must be clearly identified as numbered in “Attachment E.” These units must have signs indicating “TCEQ Permit Unit No.____.”

2. The permittee shall comply with 40 CFR 264.17, relating to general requirements for ignitable, reactive, or incompatible wastes.

3. The permittee shall prevent inundation of any permitted units and prevent any discharges of any waste or runoff of waste contaminated stormwater from permitted units. Additionally, each loading or unloading area, associated with a permitted hazardous or nonhazardous waste management unit, shall be provided with a drainage control system which will collect spills and precipitation in such a manner as to satisfy the following:

   a. Preclude the release from the system of any collected spills, leaks or precipitation;

   d. Minimize the amount of rainfall that is collected by the system; and

   e. Prevent run-on into the system from other portions of the facility.

[V - Authorized Units and Operations]

4. The permittee shall construct, operate, and maintain the facility to prevent washout of any hazardous waste by a 100-year flood, as required by 40 CFR 264.18(b)(1).

5. The permittee shall provide the following information to the Executive Director: Reserved

B. Container Storage Areas

1. Container storage areas are shown in Table V.B. - Container Storage Areas. The permittee is authorized to operate the facility container storage areas for storage and processing subject to the limitations contained herein.

2. Containers holding hazardous waste shall be managed in accordance with 40 CFR 264.171, Condition of containers; 40 CFR 264.172, Compatibility of waste with containers; and 40 CFR 264.173, Management of containers.

3. The permittee shall construct and maintain the containment systems for the container storage areas in accordance with the drawings and details included in the Part B Application identified in Section I.B. At a minimum, the containment system must meet the requirements of 40 CFR 264.175.

4. The permittee must comply with the requirements of 40 CFR Part 264, Subpart CC, as applicable.

C. Tanks and Tank Systems

1. The permitted tank units and their approved waste types are shown in Table V.C. - Tanks and Tank Systems. The permittee is authorized to operate the permitted tank units for storage and processing subject to the limitations contained herein.

2. The permittee shall not place hazardous waste or treatment reagents in the tank system if they could cause the tank, its ancillary equipment, or a containment system to rupture, leak, corrode, or otherwise fail. [40 CFR 264.194(a)]

3. The permittee shall prevent spills and overflows from the tank or containment system as per the requirements of 40 CFR 264.194(b).

4. Secondary containment systems must be provided with a leak-detection system that is operated so that it will detect the failure of either the primary or secondary containment structure or the presence of any release of hazardous waste or accumulated liquid in the secondary containment system within twenty-four (24) hours.

5. The permittee shall report to the Executive Director within twenty-four (24) hours of detection when a leak or spill occurs from the tank system or secondary containment system to the environment. [40 CFR 264.196(d)(1)] (A leak or spill of one pound or less of hazardous waste that is immediately contained and cleaned-up need not be reported.) [40 CFR 264.196(d)(2)] (Releases that are contained within a secondary containment system need not be reported.)

6. Within thirty (30) days of detecting a release to the environment from the tank system or secondary containment system, the permittee shall report the following information to the Executive Director: [40 CFR 264.196(d)(3)]

    a. Likely route of migration of the release;

    b. Characteristics of the surrounding soil (including soil composition, geology, hydrology, and climate);

    c. Results of any monitoring or sampling conducted in connection with the release. If the permittee finds it will be impossible to meet this time period, the permittee shall provide the Executive Director with a schedule of when the results will be available. This schedule must be provided before the required thirty (30) day submittal period expires;

    d. Proximity of downgradient drinking water, surface water, and populated areas; and

    e. Description of response actions taken or planned.

7. The permittee shall submit to the Executive Director all certifications of major repairs to correct leaks within seven (7) days of returning the tank system to use. [40 CFR 264.196(f)]

8. The permittee must comply with the requirements of 40 CFR Part 264, Subpart CC, as applicable.

D. Surface Impoundments

1. Surface impoundments and their approved waste types are shown in Table V.D.1. - Surface Impoundments. The permittee is authorized to operate the surface impoundment for storage and processing subject to the limitations contained herein. The surface impoundment shall have a liner system as shown in Table V.D.6. - Surface Impoundment Liner System and Attachment B.

    a. Wastes authorized in Table IV.B (Wastes Authorized) for the surface impoundment shall meet all the applicable land disposal restrictions under 40 CFR Part 268, prior to placement in the surface impoundment.

    b. The permittee shall comply with the applicable requirements of 40 CFR 264 Subpart K – Surface Impoundment and the Part B application for construction, installation, and operation of the surface impoundment.

    c. The permittee shall inspect the surface impoundment in accordance with the frequency listed in Table III.D. - Inspection Schedule, to ensure that the unit is maintained in good functional condition, as required by 40 CFR Part 264 Subpart K.

[V - Authorized Units and Operations]

d. The permittee shall comply with the applicable requirements specified in the Wastewater Permit WQ0004948000 and Radioactive Material License R04100 for construction, installation, and operation of the surface impoundment.

2. The permittee must comply with the requirements of 40 CFR Part 264, Subpart CC, as applicable.

E. Waste Piles - Reserved

F. Land Treatment Units - Reserved

G. Landfills

1. The permittee may dispose of a total volume of 2.31 million cubic yards of hazardous waste in 11 cells (A through K) which are collectively known as East+West Landfill. The landfill cell(s) shall meet the specifications listed in Table V.G.1. - Landfills, Table V.G.3. - Landfill Liner System, Table V.G.4. – Landfill

   Leachate Collection System. The permittee is authorized to operate the permitted landfill for waste disposal subject to the limitations contained herein.

2. Test Fill

   a. As necessary, prior to construction of any new landfill or landfill cell with changes in the design, specifications, materials, and/or construction specifications for the liner system, the permittee shall construct and evaluate a test fill(s) to verify that material specifications, and construction specifications, methodology and equipment proposed to construct a full-scale compacted clay liner achieve a field hydraulic conductivity of 1×10^{-7} cm/sec or less in the test fill(s). The test fill construction plans, specifications and documentation procedures shall conform with the guidance described in Section 2.3.4.1.2 (Test Fill Construction) of “Construction Quality Assurance for Hazardous Waste Land Disposal Facilities” (EPA Publication No. 530-SW-021, dated October, 1985) and/or “Quality Assurance and Quality Control for Waste Containment Facilities” (EPA/600/R-93/182) and/or as approved in the Construction Quality Assurance (CQA) Plan in the Part B Permit Application. Hydraulic conductivity of the test fill pad shall be determined using the sealed double-ring infiltrometer (ASTM D 5093), or an equivalent method approved by the Executive Director.

      The permittee shall complete construction and evaluation of the test fill in accordance with the terms of this permit and shall submit certification of proper construction and evaluation in accordance with Provision II.A.6. This certification shall be signed by both the permittee and a qualified, licensed Professional Engineer competent in geotechnical engineering with experience in construction of compacted clay liners and evaluation of field permeabilities of compacted clay liners.

[V - Authorized Units and Operations]

b. The test fill certification report shall include the following information:

(1) Results of all preconstruction, construction, and post construction quality assurance inspections and testing performed;

(2) A summary of material specifications and construction specifications, methodology and equipment necessary to construct a full-scale compacted clay liner or cover achieving a field hydraulic conductivity of 1×10^{-7} cm/sec or less;

(3) Complete documentation, including a summary of raw data, detailing how the field hydraulic conductivity of the compacted test fill clay liner was measured and calculated; and

(4) The qualifications of the engineer certifying proper test fill construction and testing.

3. General Landfill Design and Construction Requirements

a. The landfill liner system shall consist of at least two liners which meet the requirements of 40 CFR 264.301(c)(1)(i)(A) and (B). In addition, a leachate collection/leak detection system which meets the requirements of 40 CFR 264.301(c)(2) and (3) shall be installed above and between the liners. The landfill liner system and leachate collection/leak detection system shall meet the specifications listed in Table V.G.3. - Landfill Liner System and Table V.G.4. - Landfill Leachate Collection System.

b. Soil Liner

All constructed clay-rich soil structures (liners, dikes, and cover) shall be constructed according to the specifications and methodologies established for the soil liner test fill and shall meet or exceed the following minimum specifications:

(1) Materials for all constructed clay-rich structures shall be excavated, broken down, hydrated to the proper moisture content (if necessary) and then recompacted in loose lifts not less than 6.0 inches nor greater than 9.0 inches in thickness. If the soils are significantly below optimum moisture content (>3% below optimum moisture content) the maximum clod size of the soils will be reduced to less than 2 inches so that hydration can occur uniformly. Each lift shall be scarified to a depth no greater than 2.0 inches nor less than 0.5 inches prior to placement of the following lift;

(2) Compaction shall be to at least 95% Standard Proctor Density at or slightly above optimum moisture content. The permittee shall compact each clay-rich structure with a sheepsfoot-type roller of the same drum diameter and length, empty and/or ballasted weight, length and face area of the feet, and yoking arrangement as used to construct the test fill required in this section. The permittee with the prior approval of the Executive Director may use a

[V.G.3.b(2) cont. - Authorized Units and Operations]

different roller of similar size and type that provides equivalent or greater compactive effort as the sheepsfoot-type roller. For areas inaccessible to a sheepsfoot roller, a tamping foot-type compactor, smooth-drum roller or vibrating-plate compactor having foot pressures of at least 250 psi shall be substituted;

(3) The term "clay-rich soil", as described in this permit, shall be defined as soil exhibiting the following minimum characteristics:

(a) Plasticity index greater than or equal to 15;

(b) Liquid limit greater than or equal to 30; and

(c) Percent passing No. 200 sieve greater than or equal to 30.

(4) Laboratory Standard Proctor Density and optimum moisture content tests performed in accordance with ASTM D-698 for a minimum of one (1) representative sample from each 5,000 cubic yards of soil;

(5) Field density and moisture control tests on constructed soil liners performed in accordance with ASTM D-1556, ASTM D-2167, ASTM D2922, or an equivalent method at a frequency of at least one per every 10, 000 square feet of each lift placed;

(6) Atterberg Limits performed in accordance with ASTM D-4318 at a frequency of at least one per every 1,000 cubic yards of soil and for a minimum of two (2) tests per layer per cell;

(7) Percent passing No. 200 sieve performed in accordance with ASTM D1140 at a frequency of at least one per every 1,000 cubic yards of soiland for a minimum of two (2) tests per layer per cell;

(8) Soil liner thickness and slope determinations at a rate of at least one (1) determination by appropriate surveying techniques per every 2,500 square feet of soil liner installed; and

(9) Hydraulic conductivity measurements expressed in terms of cm/sec for representative undisturbed core samples of the constructed soil liner system components at a frequency of one per acre per lift.

c. Geomembrane Liner

(1) The following conditions shall be satisfied prior to the installation of any geomembrane liner:

(a) The upper four (4) inches of the supporting soil for the liner shall not contain any stones, roots, or foreign objects having a dimension greater than one (1) inch;

[V.G.3.c(1) cont.] - Authorized Units and Operations]

(b) The surface to be lined shall be prepared so as to provide a surface that is free of irregularities, loose earth, desiccation cracks, and abrupt changes in grade; and

(c) The compacted clay liner shall be maintained at or slightly above optimum moisture content and free of desiccation cracks prior to placement of any overlying geomembrane liner. Verification testing and modifications to moisture content shall be performed for the compacted clay liner during soil compaction activities and hence at least every seven (7) days until placement of the overlying component of the liner system. Final soil moisture content determinations must be performed for the clay liner within twenty-four (24) hours of placement of the overlying component of the liner system. At a minimum, soil moisture content shall be measured at six (6) inch depths at a minimum rate of one (1) test per 10,000 square feet of soil liner. The date, location, and results of all soil moisture measurements and the date and location of the synthetic liner placement shall be included in the required certification report. The results of a visual inspection made by the certifying engineer, noting the presence or absence of desiccation cracks and any remedial measures taken to remove these features, must also be included in the certification report for the landfill (cell).

(2) During installation, all persons walking on the liner shall wear shoes which will not damage the liner.

(3) The geomembrane shall not be installed during rainfall or in an area of pooled water.

(4) The geomembrane shall be installed so that there will not be tension or wrinkles at the anticipated average temperature for its final use.

(5) All personnel seaming the geomembrane shall have previous project experience in field seaming geomembrane liner using similar seaming methods.

(6) An anchor trench having minimum dimensions of two (2) feet in width and two (2) feet in depth shall be constructed along the perimeter of the landfill trench.

(7) The geomembrane panel shall be secured at the ground surface in the anchor trench specified in Provision V.G.3.c.(6) and shall be installed such that field seams, to the extent possible, are aligned parallel to the landfill sidewall slope.

(8) Adjacent panels of the geomembrane shall be overlapped at least three (3) inches.

(9) All seam areas of the geomembrane shall be clean and free of moisture, dust, dirt, and any other foreign material of any kind.

[V.G.3.c cont.] - Authorized Units and Operations]

(10) Each seaming unit for extrusion welding shall have temperature gauges that indicate the temperature of the extrudate in the machine and at the nozzle.

(11) Field seaming shall not be done if the ambient temperature is below 34 F.

(12) Field seaming shall not be done if the ambient temperature is below 50 F, but greater than 34 F, unless the geomembrane is preheated above that temperature by either the sun or a hot air device.

(13) Prior to field seaming the geomembrane each day, all personnel responsible for seaming shall prepare a test seam of at least two (2) feet in length. These test seams shall be tested for adequate strength (seam peel stress equal to 100 percent of the tensile strength of the geomembrane used) prior to field seaming the geomembrane. All test seaming shall be performed under the same conditions as production seaming. Any problems with equipment or test seam strength shall be corrected prior to field seaming the geomembrane.

(14) All seam and nonseam areas of the geomembrane shall be visually inspected for signs of defective seams, blisters, punctures, undispersed raw materials, and any sign of contamination by foreign matter. Any problems discovered shall be marked, repaired, and retested or reevaluated. The geomembrane surface shall be clean at the time of these inspections.

(15) All field seams shall be nondestructively tested over their entire length. Seam testing shall be performed as field seaming progresses. Any defects shall be marked, repaired, and retested.

(16) Field seams shall be tested using, at a minimum, an ultrasonic tester, a pressure tester, or a vacuum tester suited for this purpose. All testing equipment shall be calibrated or properly adjusted prior to use each day.

(17) All field seams shall be destructively tested at a minimum frequency of one sample for every 500 feet of weld for adequate strength as defined above. Areas of removed samples shall be patched and the patched seams non-destructively tested in accordance with Provision V.G.3.c.(15) above.

(18) If any seam tested in accordance with Provisions V.G.3.c.(15), (16), and (17) is shown to be defective, the permittee shall evaluate the entire length of seam represented by the defective test results to determine the extent of the defect(s). The permittee shall replace or repair defective seams prior to progressing with field seaming operations.

d. Leachate Collection/Leak Detection System

(1) Sieve analysis tests on non-synthetic material at a minimum rate of one (1) test per 400 cubic yards.

[V.G.3.d. cont.] - Authorized Units and Operations]

(2) Hydraulic conductivity measurements expressed in units of cm/sec at a frequency of at least 4 representative samples collected from each compacted drainage layer.

(3) Drainage layer thickness determinations at a rate of at least three (3) determination by appropriate surveying techniques per every cell or 2,500 square feet of drainage layer installed.

(4) Drainage pipe slope determinations at a rate at least one determination by appropriate surveying techniques per every 20 feet of drainage pipe and an overall visual inspection of all pipes for sagging and improper bedding.

e. Run-On and Run-Off Control Systems

The permittee shall design and construct a run-on control system and a runoff management system as specified in the approved Part B Permit Application Section V.G., which is incorporated into this permit through Section I.B. [30 TAC Sections 335.173(g) and (h)]

f. The permittee shall submit certification of proper landfill construction prior to the placement of waste in a landfill or landfill cell. The certification shall be submitted in accordance with Provision II.A.6. Within thirty (30) days of submittal of such certification, the permittee shall submit a certification report which contains the results of all tests conducted. The permittee shall conduct any tests, inspections, or measurements that are deemed necessary in the judgment of the registered professional engineer supervising the cell construction, for the engineer to certify that the landfill cell has been constructed in conformance with the design and construction specifications of this permit. The certification report shall, at a minimum, contain the following drawings and test results:

(1) Scaled plan-view and cross-sectional drawings that accurately depict the areal boundaries and dimensions of the cell; separation distance(s) of the cell from the property boundary; minimum, maximum, and representative elevations of the excavation of the cell; minimum, maximum, and representative elevations of the cell as component parts of the liner system; location, site, volume, materials of construction, and slope, as applicable, of all soil and synthetic liners and leachate collection and leak detection system components; and

(2) For the soil liner, geomembrane liner, and leachate collection/leak detection system; all observations, tests, and analyses required to ensure that installation has been completed in accordance with the terms of this permit and the incorporated design plans.

4. General Landfilling Operations

The permittee shall conduct landfilling operations according to the following requirements:

[V.G.4 cont. - Authorized Units and Operations]

a. The initial two (2) feet of waste or soil placed in a landfill cell shall be placed with a tracked vehicle (D-6 Caterpillar size or smaller) and shall be composed of bulk or processed non-containerized waste. Rubber-tired vehicles and roller-type compaction equipment shall not drive on any portion of the leachate collection system in a landfill cell until the initial two (2) foot layer of waste or soil has been placed;

b. Upon compliance with Provision V.G.4.a., all subsequent waste, except containerized waste, shall be applied in lifts not greater than twenty four (24) inches and compacted sufficiently to minimize settlement of landfilled waste;

b. In areas of the landfill where placement of final cover will not occur when the wastes reach final grade elevation, the permittee shall install an interim cover of at least one foot of caliche and/or red bed clay soil when the wastes reach final grade elevation.; [30 TAC Section 335.173(k)];

c. All collection and holding facilities (e.g., tanks or basins) associated with run-on and run-off control systems shall be maintained and must be emptied or otherwise managed expeditiously after storms to maintain design capacity of the system; [30 TAC Section 335.173(i)]

d. All precipitation that collects in an active landfill cell, including water that drains into the landfill cell from interior access roads, shall be managed as contaminated water and disposed of accordingly at an authorized on-site waste management unit or at an authorized off-site facility;

e. While a landfill cell is in operation, it must be inspected at least weekly and after storm events in accordance with 40 CFR 264.303(b);

f. The permittee shall remove leachate from collection sumps as often as necessary to ensure that the leachate depth in the leachate collection/leak detection system is always less than the thickness of the drainage material and never exceeds 12 inches;

g. The permittee shall inspect each leak detection system and record the amount of liquids removed from each leak detection system sump at least once each week during the active life and closure period of the landfill;

h. Unless liquids removed from the leachate collection/leak detection systems are used as dust suppressant within the operating landfill cells in accordance with permit Provision III.F.1., the liquids removed shall be classified in accordance with 30 TAC Chapter 335, Subchapter R (Waste Classification) and shall be managed accordingly at an authorized on-site waste management unit or at an authorized off-site facility ;

i. Control of Wind Dispersal of Particulate Matter

The permittee shall cover or otherwise manage the landfill to control wind dispersal of particulate matter in accordance with the procedures described in Provision V.G.8. of the permittee’s approved permit application; [30 TAC Section 335.173(j)]

[V.G.4 cont. - Authorized Units and Operations]

j. The permittee shall sequence the construction of an interim and/or final cover as the waste material reaches the final grade in accordance with the approved Part B Permit Application Attachment V.G., which is incorporated into this permit through permit Section I.B.;

k. Requirements for Ignitable, Reactive or Incompatible Wastes

The permittee shall manage ignitable, reactive incompatible wastes in accordance with the following conditions:

(1) Ignitable or reactive wastes shall not be placed in a landfill, unless the waste and landfill meet all applicable requirements of 40 CFR 268, and the resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste under 40 CFR 261.21 or 261.23; [40 CFR 264.312]

(2) Ignitable wastes in containers may be disposed in the landfill cells in accordance with 40 CFR 264.312(b); and

(3) Incompatible wastes, or incompatible wastes and materials must not be placed in the same landfill cell unless the permittee complies with 40 CFR 264.17(b);

l. Special Requirements for Hazardous Wastes F020, F021, F022, F023, F026, and F027

The permittee shall not place hazardous wastes F020, F021, F022, F023, F026, and F027 in the landfill.

m. Stabilization of Liquid Wastes and LDR Wastes

(1) With the exception of leachate used for dust suppression as described in Provisions V.G.4.j and III.F.1., the permittee shall not place hazardous waste liquids or hazardous waste containing free liquids, whether or not sorbents have been added (except for nonhazardous wastes or certain containerized wastes as allowed under Provision V.G.4.p. in landfill cells. "Free liquids" are liquids which readily separate from the solid portion of a waste when the waste mixture is at a temperature above 32°F and ambient pressure. With the exception of liquids used for dust suppression in accordance with Provision V.G.4.j. and Provision III.F.1., nonhazardous liquid wastes or nonhazardous wastes containing free liquids, shall be solidified using a non-biodegradable sorbent material or chemically stabilized using a stabilization treatment agent prior to landfill disposal.

(2) All bulk and containerized loads shall be inspected for free liquids by conducting visual inspections to assure compliance with Provision V.G.4.n.(1). If visual inspection indicates the presence of free liquids in wastes that are to be landfilled in bulk or non-containerized form, the waste shipment shall not be placed in the landfill until no free liquids remain, as determined by the Paint Filter Liquids Test (Test Method 9095) as described in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (EPA Publication No. SW-846).

(3) If the inspection required in Provision V.G.4.n.(2).indicates that a bulk or non-containerized hazardous waste contains free liquids, the waste shall be treated prior to landfilling using a treatment technology that does not solely involve the use of a material that functions primarily as a sorbent. In order to verify that chemical stabilization has taken place, a representative sample of the each treated portion of the waste shall be collected from each batch of solidified and/or stabilized waste. Each sample shall be tested by an appropriate procedure as described in applicable Provisions V.G.4.n.4. through V.G.4.n.(7) in order to verify that chemical stabilization has taken place.

(4) For chemical stabilization processes based solely on a pozzolonic reaction between the aqueous portion of a waste and an appropriate admix ratio of calcium hydroxide (e.g. lime) and silicates (e.g. fly ash), an unconfined compressive strength test shall be used to verify successful stabilization. Each sample taken in accordance with Provision V.G.4.n.(3) to be tested in accordance with this provision shall be prepared into a remolded specimen as described in Section 4.3 of ASTM Test Method D2166 (or most current revision). After curing for not more than 7 days, the unconfined compressive strength of the specimen shall be determined using ASTM Test Method D-2166 (or most current revision).

(5) If the liquid portion of a particular hazardous waste contains greater than 10 percent organic constituents, or if the stabilization process employed is not based solely on a pozzolanic reaction, then a strength verification test shall not be used to verify that sufficient chemical stabilization has occurred. Instead, the Toxicity Characteristic Leaching Procedure (TCLP) (40 CFR Part 261 Appendix II) and/or total constituent analyses as required under 40 CFR Part 268, as appropriate, shall be used to determine directly whether a sufficient fraction of the hazardous constituent has been made unavailable to the environment.

(6) If hazardous waste has been stabilized in accordance with Provision V.G.4.n.(5). then the waste shall not be landfilled unless TCLP and/or total constituent analyses demonstrate that appropriate treatment standards will be achieved in accordance with the land disposal restrictions of 40 CFR Part 268. If a waste or a portion thereof has been stabilized in accordance with Provision V.G.4.n.(4). then the waste shall not be landfilled unless it complies with one of the following provisions

(a) the sample collected pursuant to Provision V.G.4.n.(3). shows an increase in compressive strength of at least 50 pounds per square inch (PSI) within 7 days of treating the waste, or

(b) additional sampling and analyses have been performed in accordance with Provision V.G.4.n.(5). and the TCLP and/or total constituent analyses demonstrate that appropriate treatment standards will be achieved in accordance with the land disposal restrictions of 40 CFR Part 268.

[V - Authorized Units and Operations]

(7) Once it has been demonstrated in accordance with Provision V.G.4.n.(6). that a particular stabilization process used on a representative sample of a particular untreated waste will result in a treated product that passes the unconfined compressive strength test or the criteria for TCLP/total constituent concentrations as required under 40 CFR Part 268 (as applicable), then samples of each batch are only required to pass the Paint Filter Liquids Test prior to placement in the landfill. If there are any changes in the treatment process (e.g., admix ratios and stabilization material composition) and/or composition of the waste to be treated, stabilization testing shall be repeated.

(8) Waste Streams Subject to LDR

For the waste streams to be landfilled on-site and subject to LDR, the permittee shall comply with the following applicable requirements:

(a) Prior to first receipt/disposal of LDR wastes treated off-site or wastes which do not require treatment on-site, the permittee shall perform corroborative sampling and analysis on those wastes for all applicable LDR constituents in accordance with 40 CFR Part 268. In lieu of corroborative sampling and analysis, the generator may provide a certification, including analytical results, to the permittee verifying the waste meets all applicable LDR standards. Such analysis by the permittee or certification by the generator shall be repeated at least annually. Additionally, a minimum of 10% of the waste streams received in a calendar year shall be randomly sampled and analyzed for LDR constituents applicable to that waste stream in accordance with 40 CFR Part 268. This random analysis shall be done in addition to any other waste analysis requirements of this permit. Records shall be maintained demonstrating compliance with the above requirements and shall be kept on site and available for review by TCEQ representatives. Compliance with this provision does not in any manner, relieve the permittee of the responsibility to ensure that all wastes subject to LDR’s meet all LDR requirements prior to disposal.

(b) The permittee shall use appropriate treatment methods for waste streams requiring treatment to meet the 40 CFR Part 268 treatment standards. Successful treatment is said to be achieved if posttreatment analyses demonstrate that appropriate treatment standards will be achieved in accordance with the land disposal restrictions of 40 CFR Part 268. The permittee shall then sample and analyze the treated waste at least once a year or when the generator notification indicates potential changes in the waste characteristics. The frequency of testing shall be increased to one in every ten shipments for highly variable waste streams.

(9) For liquids or waste containing free liquids subject to LDR’s, the permittee shall comply with the applicable permit Provisions V.G.4.n.(2). through V.G.4.n.(8).;

[V - Authorized Units and Operations]

o. Special Requirements for Containers

All containers, unless they are very small, such as an ampule, must be either at least 90 percent full when placed in the landfill, or crushed, shredded or similarly reduced in volume to the maximum practical extent before burial in the landfill [40 CFR 264.315];

p. Special Requirements for the Disposal of Lab Packs

The permittee shall not place containers holding liquid waste, or waste containing free liquids in a landfill, unless the following conditions apply [30 TAC Section 335.175(d)]:

(1) The container is very small, such as an ampule,

(2) The container is designed to hold free liquids for use other than storage, such as a battery or capacitor, or

(3) The container is a lab pack as defined and managed in accordance with 40 CFR 264.316;

q. Waste to Liner Compatibility

The permittee shall ensure that wastes to be landfilled will not impair the function of the synthetic liner. At a minimum, waste to liner compatibility testing shall be conducted for those wastes whose compatibility with the selected membrane liner has not been conducted and the effects are unknown. For wastes and liners upon which tests have been conducted and the results and/or effects are known (manufacturer's literature, other experimental literature, etc.), additional testing is not required. The permittee shall maintain test results and/or documentation that confirms waste to liner compatibility at the facility.

5. Action Leakage Rate and Response Action Plan [40 CFR 264.302 and 264.304].

The permittee shall establish an Action Leakage Rate (ALR) pursuant to 40 CFR 264.302. The permittee shall determine if the ALR, given in gallons per acre per day, for each sump has been exceeded by converting the weekly or monthly flow rate from the monitoring data obtained to an average daily flow rate (gallons per acre per day) for each sump. The permittee shall calculate the average daily flow rate for each landfill sump on a weekly basis during the active life and closure period. The ALR for the sumps in each landfill cell is given on Table V.G.1. - Landfills.

Prior to receipt of waste, the permittee shall have in place an approved Response Action Plan (RAP) which meets the requirements of 40 CFR 264.304. The RAP shall set forth the actions to be taken if the ALR is exceeded.

[V - Authorized Units and Operations]

6. Cell Location Survey

The permittee shall maintain the following items in the operating record:

a. A map with the exact location and dimensions (including depth) of each cell with respect to permanently surveyed benchmarks; and

b. A record of the areal and vertical location of each waste placed into a landfill cell.

H. Incinerators - Reserved

I. Boilers/Industrial Furnaces - Reserved

J. Drip Pads - Reserved

K. Miscellaneous Units

1. The permittee shall construct and operate Waste Compactor for processing wastes as identified in Table V.K. - Miscellaneous Units subject to the limitations contained herein.

a. The permittee shall not process wastes in the Waste Compactor if they could cause the unit, its ancillary equipment, or a containment system to rupture, leak, corrode, or otherwise fail. [40 CFR 264.194(a) as incorporated by reference in 40 CFR 264.601]

b. The permittee shall not place ignitable or reactive waste in the Waste Compactor or in the secondary containment system, unless the procedures specified in 40 CFR 264.17 and 40 CFR 264 .198(a) are followed.

c. The permittee shall not place incompatible wastes and materials in the same unit or the same secondary containment system unless the procedures specified in 40 CFR 264.17 and 40 CFR 264.199 are met.

d. The permittee shall inspect the Waste Compactor in accordance with the frequency listed in Table III.D.- Inspection Schedule, to ensure that the unit is maintained in good functional condition, as required by 40 CFR 264.602.

e. The permittee shall comply with the applicable requirements of 40 CFR 264 Subpart X-Miscellaneous Units for construction, installation, and operation of Waste Compactor.

f. Where applicable, the permittee shall comply with the applicable requirements specified in Radioactive Materials License R04100 for construction, installation, and operations of the Waste Compactor. Where in conflict, the conditions listed in the Radioactive Materials License R04100 take precedence over the conditions listed in this permit for construction, installation, and operation of the Waste Compactor.

2. The permittee shall construct and operate Geomelt Unit on a temporary basis for processing wastes as identified in Table V.K. – Miscellaneous Units subject to the limitations contained herein.

[V - Authorized Units and Operations]

a. The permittee shall not process wastes in the Geomelt unit if they could cause the unit, its ancillary equipment system to rupture, leak, corrode or otherwise fail. [40 CFR 264.601]

b. The permittee shall not place ignitable or reactive waste in the Geomelt unit or in the secondary containment system, unless the procedures specified in 40 CFR 264.17 are followed.

c. The permittee shall not place incompatible wastes and materials in the same unit or the same secondary containment system unless the procedures specified in 40 CFR 264.17 are met.

d. The permittee shall inspect the Geomelt unit in accordance with the frequency listed in Table III.D. – Inspection Schedule, to ensure that the unit is maintained in good functional condition, as required by 40 CFR 264.602.

e. The permittee shall comply with applicable requirements of 40 CFR 264 Subpart X-Miscellaneous Units for construction, installation, and operation of Geomelt.

f. Where applicable, the permittee shall comply with the applicable requirements specified in Radioactive Materials License R04100 for construction, installation, and operations of the Geomelt unit. Where in conflict, the conditions listed in the Radioactive Materials License R04100take precedence over the conditions listed in this permit for construction, installation, and operation of the Geomelt unit.

g. The permittee is authorized to operate the Geomelt unit for a period not exceeding six years, starting from the date of the inspection or notice of new construction/operation pursuant to Provision II.A.6.c. To extend the authorization beyond six years or to permanently authorize Geomelt unit, the permittee must submit a permit modification at least 180 days prior to the expiration of the current authorization. The existing authorization for the Geomelt unit will remain in full force and effect and will not expire until the commission takes the final action on the modification application.

L. Containment Buildings - Reserved

VI. Groundwater Detection Monitoring

A. Groundwater Monitoring Program

The permittee shall design, construct and maintain a groundwater monitoring program to monitor area groundwater throughout the active life of the facility and any post-closure care period. Groundwater monitoring at the facility shall at a minimum consist of a Detection Monitoring System for the locally named “225-foot zone” of the Triassic Dockum Group of the Chinle Formation. In addition, supplemental wells for the landfill (permit Unit No. 2) will monitor the locally named “125-foot zone” of the Dockum Group, and supplemental wells for the surface impoundment (Permit Unit No. 12) will monitor the undifferentiated shallow Ogallala Antler Gatuna (OAG) unit. The Detection Monitoring System shall yield groundwater samples from the uppermost aquifer that represents the quality of background water and the quality of groundwater at the point of compliance.

[VI. Groundwater Detection Monitoring]

1. Identification of Detection Monitoring Program Unit(s)/Area(s)

   The Detection Monitoring Program is specific to the RCRA-regulated unit(s) or area(s) listed in Table VI.B.3.b. - Unit Groundwater Detection Monitoring System and as authorized by Provision(s) by Provisions V.D. (Surface Impoundments) and V.G. (Landfills) for which groundwater monitoring requirements apply pursuant to 30 TAC Section 335.164.

2. Capabilities of Detection Monitoring Systems

   The Detection Monitoring System shall yield groundwater samples from the uppermost aquifer/water-bearing zones that represent the quality of background water that has not been affected by operation of the regulated unit(s) and that represent the quality of groundwater passing the point of compliance. This system shall be capable of detecting a release from the regulated unit to the groundwater.

3. Point of Compliance

   The point of compliance for the Detection Monitoring System is defined by a vertical surface, located at the hydraulically downgradient limit of the waste management area (or permitted unit) that extends down into the uppermost aquifer/groundwater bearing zone underlying the regulated unit. The waste management area is the limit projected in the horizontal plane of the area on which waste will be placed during the active life of the regulated unit.

4. Detection Monitoring Program

   The permittee is required to install and operate a Detection Monitoring System(s) subject to the limitations contained herein. The Detection Monitoring System wells for each unit/area are listed in Table VI.B.3.b. - Unit Groundwater Detection Monitoring System. Wells identified as proposed in Table VI.B.3.b – Unit Groundwater Detection Monitoring System shall be installed in accordance with the compliance scheduling requirements of permit Section VI.I.

   a. Detection Monitoring System shall, at a minimum, consist of three categories of wells, Background, Point of Compliance Wells, and Supplemental Wells which will be used to establish groundwater quality for each RCRA-regulated unit.

      (1) Background Well(s) are those wells that are unaffected by the operations of the unit. The Background Well(s) are depicted in “Attachment F” (Permit Application Detection Monitoring System Wells Map) and are also listed in Table VI.B.3.b. - Unit Groundwater Detection Monitoring System.

      (2) Point of Compliance (POC) Wells are used to demonstrate compliance with the Detection Monitoring Parameters which are listed on Table VI.B.3.c. - Groundwater Detection Monitoring Parameters. POC Wells are designated in “Attachment F” (permit application Detection Monitoring System Wells Map) and are also listed in Table VI.B.3.b. - Unit Groundwater Detection Monitoring System.

[VI. Groundwater Detection Monitoring]

(3) The Detection Monitoring System shall also include Supplemental Wells, to establish groundwater quality and hydrogeologic conditions of the "125-foot zone" for the landfill (Permit Unit No. 2) and OAG Unit for the Surface Impoundment (Permit Unit 12). Supplemental monitoring wells listed on Table VI.B.3.b.-Unit Groundwater Detection Monitoring System (SW-32 through SW-42 and SW-60 through 65) shall be inspected for the presence of liquids each time the detection monitoring system is sampled. Should any supplemental monitoring well contain liquids in an amount which may be practicably sampled, the supplemental monitoring well(s) shall be monitored in accordance with all of the requirements of Section VI. of this permit applicable to Point of Compliance (POC) wells.

b. The permittee shall determine groundwater quality in the uppermost aquifer throughout the active life of the facility and any post-closure care period in accordance with the parameter list and sampling schedule specified in Provisions VI.C.2. and VI.D.2., respectively.

c. The design, construction, maintenance and operation of the authorized components of the Detection Monitoring Program must be in accordance with this permit and approved Part B Permit Application, Section VI, which is incorporated into this permit through Section I.B.

B. Construction, Certification, and Plugging

Wells shall be constructed and maintained so groundwater samples are representative of the aquifer's water quality. A record of drilling and construction details demonstrating compliance with the terms of this permit section shall be prepared in accordance with "Attachment G" (Well Design and Construction Specifications). Wells constructed prior to issuance of this permit may be utilized as groundwater monitoring wells if they meet the standards of "Attachment G."

1. Well Construction

a. For all groundwater monitor wells to be constructed in accordance with this permit, the permittee shall notify the Executive Director to report the proposed monitor well location and screened interval at least thirty (30) days in advance of the anticipated date of installation or in accordance with an approved schedule for installation. Alternatively, a schedule for installation issued as part of an approved work plan shall constitute such notification. New well construction shall commence upon written approval of the Executive Director within the timeframes specified in this permit.

b. The permittee shall install the wells of the Detection and Supplemental Monitoring System and submit certification of this installation within sixty (60) days of installation, as described in "Attachment G." The Detection and Supplemental monitoring Wells shall be installed in accordance with the specifications outlined in "Attachment G."

[VI. Groundwater Detection Monitoring]

2. Replacement Wells

Prior to installation of a replacement well, the permittee shall submit to the Executive Director for approval, the replacement well specifications and an explanation of why the well is being replaced. For any Detection Monitoring System well to be considered a replacement well and not a new well, the well shall have no design changes from the well being replaced; shall be drilled within fifteen (15) feet of the well being replaced; and shall be installed in accordance with this Provision and "Attachment G."

3. Well Management Activities Requiring Permit Modification

a. If the permittee or the Executive Director determines that the well integrity, materials of construction, or well placement no longer enable a well to yield samples representative of groundwater quality from the desired aquifer(s), then the permittee shall submit a permit modification or amendment request to the Executive Director in accordance with the provisions of 30 TAC Sections 305.62 and 305.69, respectively, describing actions the permittee will take to remedy the situation. The permittee shall also notify the Executive Director within fifteen (15) days of such determination regarding a well.

b. The permittee shall submit a permit modification or amendment request to the Executive Director in accordance with the provisions of 30 TAC Sections 305.62 and 305.69, respectively, when new POC or Background Wells are to be constructed after issuance of this permit (i.e., if the wells have not been included in the approved Part B Permit Application materials referenced in Section I.B.)

c. The permittee shall submit a permit modification or amendment request, for installation of a new well, to the Executive Director in accordance with the provisions of 30 TAC Sections 305.62 and 305.69, respectively, when any wells being replaced do not meet the requirements of Provision VI.B.2.

4. Plugging and Abandonment Procedures

a. If a Detection Monitoring Well listed in Table VI.B.3.b. - Unit Groundwater Detection Monitoring System is plugged and abandoned and a replacement well is not installed in accordance with this permit, then a modification request shall be submitted in accordance with 30 TAC Section 305.69 within ninety (90) days of the plugging and abandonment procedure to update Table VI.B.3.b. - Unit Groundwater Detection Monitoring System of the permit.

b. For all wells to be plugged and abandoned after issuance of this permit, the permittee shall follow the procedures specified in "Attachment G."

C. Detection Monitoring System Operation

1. Uppermost Aquifer/Water-Bearing Zone Monitored by the Detection Monitoring System

The Detection Monitoring System shall be designed to monitor the groundwater in the uppermost aquifer/water-bearing zone. The "uppermost aquifer", as referenced in this

[VI.C.1 cont. Groundwater Detection Monitoring]

permit, refers to the locally named "225-foot zone" of the Triassic Dockum Group of the Chinle Formation. The "225 foot zone" of the Dockum Group ranges in elevation from approximately 3250 feet above Mean Sea Level (MSL) to 3215 above MSL. The top of the uppermost aquifer/water-bearing zone is approximately 225 feet below ground surface (BGS).

Groundwater is typically encountered 225 feet BGS. A siltstone zone that occurs at a depth of 125 feet below ground surface and is locally named the "125-foot zone" of the Dockum Group shall also be monitored at the landfill (Permit Unit No. 2) in accordance with Provision VI.A.4.a.(3). An upper single hydrogeologic unit which consists of unconsolidated or semi consolidated sand and gravel and is referred to as the undifferentiated Ogallala, Antler, Gatuna (OAG) unit occurs directly above the Dockum Group locally and is located approximately 0 to 30 feet BGS shall also be monitored at the surface impoundment (Permit Unit No. 12) in accordance with Provision VI.A.4.a.(3).

2. Groundwater Detection Monitoring Parameters and Compliance

   a. The permittee shall monitor well numbers identified in Provision VI.A.4. and Table VI.B.3.b. - Unit Groundwater Detection Monitoring System. The Uppermost Aquifer's groundwater quality will be evaluated based on the parameters listed in Table VI.B.3.c. - Groundwater Detection Monitoring Parameters. Sampling and analysis for the Groundwater Detection Monitoring Parameters of Table VI.B.3.c. - Groundwater Detection Monitoring Parameters shall be conducted in accordance with Provision II.B.1.b. of this permit. [30 TAC Section 335.164(1)]

   b. Background groundwater quality for a monitoring parameter or constituent shall be based on a sequence of at least one sample. The permittee shall sample background monitoring wells regularly throughout the life of the facility, and periodically review and revise the background values as necessary in accordance with the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance, U.S. EPA, March 2009. The permittee shall determine the concentrations of the detection monitoring parameters and water quality parameters listed in Table VI.B.3.c. - Groundwater Detection Monitoring Parameters for each sample collected.

   c. Compliance with the Groundwater Detection Monitoring Parameters listed in Table VI.B.3.c. - Groundwater Detection Monitoring Parameters is defined by the results of the data evaluation of Provision VI.D.4. wherein the groundwater monitoring data for each well do not exhibit evidence of contamination over background values. If any POC Well is determined to be noncompliant with Table VI.B.3.c. - Groundwater Detection Monitoring Parameters at any time during the Detection Monitoring Program, the permittee shall respond and report according to Provision VI.E.1.

3. Post-Closure Care Period

The units listed in Provision VI.A.1. shall remain in the Detection Monitoring Program during the active life of the unit(s) and during any applicable Post-Closure Care Period. After closure activities are completed for a specified unit and certification of closure is received by the Executive Director, any applicable Post-Closure Care Period shall begin.

[VI.C.3 cont. Groundwater Detection Monitoring]

If the Post-Closure Care Period has expired and evidence of Statistically Significant Increase (SSI) of the Groundwater Detection Monitoring Parameters of Table VI.B.3.c. - Groundwater Detection Monitoring Parameters has not been confirmed in the groundwater, then the permittee shall notify the Executive Director in writing at least thirty (30) days prior to discontinuing the Detection Monitoring Program for the specified unit. Within ninety (90) days of the notification, the permittee shall submit a final report to the Commission for the specified unit. The final report shall include the information required by the annual report of Section VI.G.

4. Waste Management of Recovered Groundwater

a. Recovered groundwater from a Detection Monitoring Well with no known contamination may be managed as uncontaminated prior to analysis. Following analysis, if the permittee determines that a Table VI.B.3.c. - Groundwater Detection Monitoring Parameter has an SSI over background value, the recovered groundwater shall be managed as contaminated water.

b. Recovered groundwater with known contamination which exceeds the Table VI.B.3.c. - Groundwater Detection Monitoring Parameters shall be managed as contaminated water.

D. Sampling and Analysis

1. Sampling and Analysis

The permittee shall follow the methods set out in EPA's RCRA Groundwater Monitoring Draft Technical Guidance Document (November 1992) or an alternate method with prior written approval of the Executive Director to collect and preserve samples withdrawn from groundwater monitoring wells. The collected samples shall be managed (i.e., Chain of Custody and handling procedure), analyzed, and statistically evaluated (i.e., QA/QC) in accordance with the current edition of EPA SW-846 and ASTM Standard Test Methods or other equivalent methods with prior written approval of the Executive Director.

a. All groundwater analyses required by this permit shall be performed using a QA/QC program where all information, data, and resulting decisions are technically sound, statistically valid, and properly documented. All QA/QC program details shall be put in writing and assignments made to qualified personnel. At a minimum, the program shall conform to the QA/QC program details described in the current edition of EPA SW-846 and ASTM Standard Test Methods or other equivalent methods accepted in writing by the Executive Director.

b. Groundwater analyses required by this permit shall utilize laboratory methods which are capable of measuring concentrations equal to or less than established background values.

[VI. - Groundwater Detection Monitoring]

c. Wells shall be sampled according to the Sampling and Analysis Plan presented in Section VI of the approved Part B Permit Application, which is incorporated into this permit through Section I.B. The permittee or the Executive Director shall propose modifications, as necessary, to the Sampling and Analysis Plan in order to achieve the Detection Monitoring Program objectives. Any and all revisions to the plan shall become conditions of this permit at the beginning of the next full quarter after approval by the Executive Director.

2. Sampling and Analysis Frequencies and Parameters

a. Frequencies of sampling shall be monthly, quarterly, semiannually or yearly, depending on the sampling objective. These periods of time are defined below:

(1) "Month" shall be a calendar month;

(2) "Quarter" shall be based on divisions of the calendar year (i.e., January through March, April through June, July through September, October through December);

(3) "Semiannual" shall be based on divisions of the calendar year (i.e., January through June, July through December) and consist of two consecutive quarters;

(4) "Annual" or "Year" shall be four consecutive quarters, beginning with the first quarter. Years shall be designated consecutively, beginning with the "first year", "second year", etc.; and

(5) "Calendar year" shall be based on divisions of the calendar (i.e. January through December).

b. Sampling of wells shall commence during the first complete quarter after issuance of this permit, or during the first quarter of operation if the permit is issued for a new unit. Samples shall be collected during the first thirty (30) days of the specified sampling frequency.

c. In the first and subsequent years of the Detection Monitoring Program, the wells of Table VI.B.3.b. - Unit Groundwater Detection Monitoring System shall be sampled and analyzed according to the Provision VI.D.2.d.and Table VI.B.3.c. - Groundwater Detection Monitoring Parameters.

d. The permittee shall, during April and October of each year, sample the detection monitoring system wells. A sample shall be obtained from each of the even numbered upgradient wells and downgradient wells during the October sampling event, and a sample shall be obtained from each of the odd numbered upgradient wells and downgradient wells during the April sampling event.

[VI.D.2.d. cont. - Groundwater Detection Monitoring]

The permittee shall analyze each sample to determine the concentration of each detection monitoring parameter listed in Table VI.B.3.c.-Groundwater Detection Monitoring Parameters. The designated upgradient groundwater monitoring listed in Table VI.B.3.b. -Unit Groundwater Detection Monitoring System will only be analyzed for metal monitoring parameters listed in Table VI.B.3.c. - Groundwater Detection Monitoring Parameters.

e. Field determination requirements for wells listed in Table VI.B.3.b. - Unit Groundwater Detection Monitoring System consist of the following measurements or observations for each well that will be sampled which shall be established during each sampling event:

(1) Water level measurements relative to MSL measured to within 0.01 foot.

(2) Determination of pH, temperature, specific conductivity and turbidity in Nephelometric Turbidity Units for each well.

(3) Descriptions of water sample appearance (clarity, color, etc.) shall be recorded.

(4) The total depth of each well, which is not equipped with a dedicated pump, shall be measured during each sampling event. The total depth of each well equipped with a dedicated pump shall be measured when pumps are removed for maintenance. At a minimum, the wells with dedicated pumps will be checked for silting every three (3) years. The measured total depth shall be compared to the total depth recorded on the well construction log. Should an analysis of the measured and the recorded total depth reveal that the well is silting in, the permittee shall perform such actions necessary (redevelopment, replacement, etc.) to enable the well to function properly.

(5) All wells specified in this permit shall be inspected during each sampling event. Repairs or a proposal for replacement for any affected well shall be performed within ninety (90) days of the routine sampling event inspection which identified the problem well.

3. Statistical Procedures for Data Evaluation

a. For each POC Well sampled during each sampling event, the permittee shall determine whether there is evidence of a statistically significant increase (SSI) in the concentrations of each volatile and semivolatile organic monitoring Parameter listed Table VI.B.3.c.-Groundwater Detection Monitoring Parameters as outlined in Provision VI.D.3.b.

b. The procedures that shall be used to determine if an increase has occurred over background values shall be direct comparison to the concentration limits listed in Table VI.B.3.c.-Groundwater Detection Monitoring Parameters for volatile and semivolatile organics, for the following waste management units identified in Provision VI.A.1.: TCEQ Permit Unit Nos. 2 and 12.

[VI.D.3.b.cont. - Groundwater Detection Monitoring]

To employ the identified evaluation procedure, the permittee is required to collect a minimum of one sample from each unit's Background and POC Wells following the sampling schedule outlined in Provision VI.D.2.d. If a measured value exceeds the concentration limit, the permittee shall promptly resample monitoring well(s) in question, determine the concentration of the parameter(s) for which the exceedance was indicated and compare the results of the re-sampling event to the concentration limit(s). The permittee has determined an SSI has occurred if the re-sample analysis confirms the initial result.

c. If it is determined that the selected statistical procedure is not appropriate to conduct data evaluation for a specified unit, then the permittee shall select an alternate statistical procedure. The permittee may propose alternate statistical procedures and data evaluation described in Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance, U.S. EPA, March 2009. Prior to using a statistical procedure which is different than the one identified in Provision VI.D.3.b. the permittee shall obtain approval from the Executive Director through a permit amendment or modification as specified in 30 TAC Sections 305.62 and 305.69, respectively.

4. Data Evaluation

a. Data evaluations shall be completed within sixty (60) days of the sampling date unless QA/QC procedures show that data are unacceptable and reanalysis or re-sampling must be performed. In such cases, the Executive Director will be notified as soon as it becomes apparent that the sixty (60) day time limit to conduct data evaluation cannot be met.

b. Data evaluation shall determine whether there is evidence of an SSI for Groundwater Detection Monitoring Parameters listed in Table VI.B.3.c. - Groundwater Detection Monitoring Parameters each time groundwater quality is determined at the POC in accordance with 30 TAC Section 335.163(7).

c. In addition to the statistical evaluation procedures established in Provision VI.D.3., the permittee shall evaluate the analytical data obtained for the metal monitoring parameters listed in Table VI.B.3.c. – Groundwater Detection Monitoring Parameters. This data evaluation shall consist of a review of graphical representations of each of the metal parameter concentrations in each well over time. This evaluation of the metals data shall be performed annually and included in the annual report required under Provision VI.G.

E. Response Requirements for SSI

1. If the permittee has determined an SSI over background values for any of the Groundwater Monitoring Parameters identified in Table VI.B.3.c. - Groundwater Detection Monitoring Parameters in accordance with statistical procedures authorized by Provision VI.D.3. and specified by the permittee, the permittee shall perform the following actions:

a. Notify the Executive Director in writing, within seven (7) days. The notification must indicate which Groundwater Detection Monitoring Parameter(s) of Table VI.B.3.c. - Groundwater Detection Monitoring Parameters has exhibited an SSI.

[VI. - Groundwater Detection Monitoring]

b. Immediately sample the groundwater in all wells of Table VI.B.3.b. - Unit Groundwater Detection Monitoring System which exhibit an SSI for the specified unit and determine whether constituents of Appendix IX of 40 CFR 264 are present, and if so, in what concentrations.

c. For any Appendix IX hazardous constituent found in the analysis pursuant to Provision VI.E.1.b., the permittee may re-sample for hazardous constituents within one month and repeat the analysis for those compounds detected. If the results of the second analysis confirm the initial results, then these detected constituents will form the basis for a Compliance Monitoring Program. If the permittee does not re-sample for the constituents found pursuant to Provision VI.E.1.b., the hazardous constituents found during the initial Appendix IX analysis will form the basis for the Compliance Monitoring Program.

d. Upon establishing that a release has occurred from a unit(s), the permittee shall submit to the Executive Director a permit amendment or modification to modify the Detection Monitoring Program and a Compliance Plan application to initiate a Compliance Monitoring Program and/or a Corrective Action Program for the specified unit(s). The permit and Compliance Plan applications must be submitted based on the following schedule:

(1) If groundwater downgradient of the specified unit does not exceed the requirements in 30 TAC Section 335.158 for the proposed groundwater protection standard (GWPS), then within ninety (90) days, the permittee shall submit a permit amendment and a Compliance Plan application to establish a Compliance Monitoring Program for the specified unit;

(2) If groundwater downgradient of the specified unit exceeds the requirements in 30 TAC Section 335.158 for the proposed GWPS requested in the application for a specified unit, and an Alternate Concentration Limit (ACL) is not being proposed in the application in accordance with 30 TAC Section 335.160(b) to establish the GWPS, then within 180 days, the permittee shall submit a permit amendment or modification and a compliance plan application to establish a Corrective Action Program for the specified unit; and

(3) If groundwater downgradient of the specified unit exceeds the requirements in 30 TAC Section 335.158 for the proposed GWPS requested in the application for a specified unit, and an ACL is being proposed in the application in accordance with 30 TAC Section 335.160(b) to establish the GWPS, then within 180 days, the permittee shall submit a permit amendment or modification and a compliance plan application with an ACL demonstration to establish a Corrective Action Program for the specified unit.

2. If the permittee determines that there is an SSI above (or for pH, a statistically significant variation from) background values for the Groundwater Detection Monitoring Parameters specified in Table VI.B.3.c., the permittee may demonstrate a source other than the RCRA-regulated unit caused the increase or that the increase resulted from error in sampling, analysis, or evaluation. In such cases, the permittee shall perform the following actions:

[VI. - Groundwater Detection Monitoring]

a. Notify the Executive Director in writing within seven (7) days that the permittee intends to make a demonstration;

b. Within ninety (90) days, submit a report to the Executive Director which demonstrates that a source other than a RCRA-regulated unit caused the increase, or that the increase resulted from error in sampling, analysis, or evaluation;

c. Submit to the Executive Director an application for a permit amendment or modification and a compliance plan application to make any appropriate changes to the Detection Monitoring Program at the facility. The applications shall be submitted in accordance with Provision VI.E.1.d.; and

d. Continue to monitor groundwater in accordance with the Detection Monitoring Program at the facility.

F. Revised Detection Monitoring Program

If the permittee or the Executive Director determines that the Detection Monitoring Program no longer satisfies the requirements of 30 TAC Section 335.164, the permittee must, within ninety (90) days of either the permittee's determination or Executive Director's notification, submit a permit amendment or modification request to make any appropriate changes to the Detection Monitoring Program which will satisfy the regulations.

G. Annual Detection Monitoring Reporting Requirements

The permittee shall submit an Annual Detection Monitoring Report which shall include the following information determined since the previously submitted report:

1. A statement whether an SSI has occurred over background values in any well during the previous calendar year period and the status of any SSI events;

2. The permittee shall include the results of all monitoring, testing, and analytical work obtained or prepared pursuant to the requirements of this permit, including a summary of background groundwater quality values, groundwater monitoring analyses, statistical calculations, graphical evaluation and drawings;

3. The groundwater flow rate and direction in the uppermost aquifer. The groundwater flow rate and direction of groundwater flow shall be established using the data collected during the preceding calendar year's sampling events from the monitoring wells of the Detection Monitoring Program. The permittee shall also include in the report all documentation used to determine the groundwater flow rate and direction of groundwater flow;

4. A contour map of piezometric water levels in the uppermost aquifer based at a minimum upon concurrent measurements in each detection monitoring system well sampled during each monitoring event. All data or documentation used to establish the contour map should be included in the report;

5. Recommendation for any changes; and

[VI. - Groundwater Detection Monitoring]

6. Any other items requested by the Executive Director.

H. Record Keeping Requirements

1. The permittee shall enter all monitoring, testing, analytical, statistical test computation data in evaluating groundwater monitoring data, and inspection data obtained or prepared pursuant to the requirements of this permit, including graphs and drawings, in the operating record at the facility.

2. The operating record at the facility shall be made available for review by the staff of the Commission upon request.

I. Compliance Scheduling Requirements

The permittee shall complete the installation of all wells for the landfill (Permit Unit No. 2) required by Table VI.B.3.b.-Unit Groundwater Detection Monitoring System prior to waste disposal in the corresponding landfill cell(s) as outlined in the Part B Application, Section VI, which is incorporated into this permit through permit Provision I.B.

VII. Closure and Post-Closure Requirements

A. Facility Closure

1. The permittee shall follow the Closure Plan, developed in accordance with 40 CFR Part 264 Subpart G, and contained in the permit application submittals identified in Section I.B. except as modified by this permit.

In addition, facility closure shall commence:

a. Upon direction of the TCEQ for violation of the permit, TCEQ rules, or state statutes; or

b. Upon suspension, cancellation, or revocation of the terms and conditions of this permit concerning the authorization to receive, store, process, or dispose of waste materials; or

c. Upon abandonment of the site; or

d. Upon direction of the TCEQ for failure to secure and maintain an adequate bond or other financial assurance as required by Provision VII.B.1.

2. Request for Permit Modification or Amendment

The permittee shall submit a written request for a permit modification or amendment to authorize a change in the approved Closure Plan(s), in accordance with 40 CFR 264.112(c). The written request shall include a copy of the amended Closure Plan(s) for approval by the Executive Director.

[VII. - Closure and Post-Closure Requirements]

3. Time Frames for Modification/Amendment Request Submittal

The permittee shall submit a written request for a permit modification or amendment in accordance with the time frames in 40 CFR 264.112(c)(3).

4. Closure Notice and Certification Requirements

a. The permittee shall notify the Executive Director, in writing, at least sixty (60) days prior to the date on which he expects to begin partial or final closure of a surface impoundment, or landfill unit, or final closure of a facility with such a unit; or at least forty-five (45) days prior to the date on which he expects to begin partial or final closure of a facility with processing or storage tanks, container storage, or incinerator units; or at least forty-five (45) days prior to the date on which he expects to begin partial or final closure of a boiler or industrial furnace, whichever is earlier. A copy of the notice shall be submitted to the TCEQ Regional Office.

b. The permittee shall notify the TCEQ Regional Office at least ten (10) days prior to any closure sampling activity required by the permit in order to afford regional personnel the opportunity to observe these events and collect samples.

5. Unless the Executive Director approves an extension to the closure period, as per the requirements of 40 CFR 264.113(b), the permittee must complete partial and final closure activities within 180 days after receiving the final known volume of hazardous wastes at the hazardous waste management unit or facility.

6. As per the requirements of 40 CFR 264.115, within sixty (60) days of completion of closure of each permitted hazardous waste surface impoundment, or landfill unit, and within sixty (60) days of the completion of final closure, the permittee shall submit to the Executive Director, by registered mail, with a copy to the TCEQ Regional Office, a certification that the hazardous waste management unit or facility, as applicable, has been closed in accordance with the specifications in the approved Closure Plan and this permit. The certification, which shall be signed by the permittee and by a Professional Engineer licensed in Texas, must be in the form described in Provision II.A.6. A closure certification report shall be submitted with the required certifications which includes a summary of the activities conducted during closure and the results of all analyses performed. The certification report shall contain the information required by Provision II.A.6. and as may be applicable, 30 TAC Section 350.32 (Texas Risk Reduction Program (TRRP) Remedy Standard A) and 30 TAC Section 350.33 (TRRP, Remedy Standard B) and 30 TAC Section 350.95 (Response Action Completion Report (RACR). Documentation supporting the licensed Professional Engineer's certification shall be furnished to the Executive Director upon request until the Executive Director releases the permittee from the financial assurance requirements for closure under 40 CFR 264.143(i).

7. For each disposal unit closed after permit issuance, the permittee shall submit documentation to demonstrate compliance with 40 CFR 264.116 (relating to survey plat) and 264.119 (relating to post-closure notices). Documentation to demonstrate compliance with survey plat requirements must be submitted to the TCEQ at the time of submission of the certification of closure. Documentation to show compliance with post-closure notices must be submitted to the TCEQ no later than sixty (60) days after certification of closure.

[VII. - Closure and Post-Closure Requirements]

8. Final closure is considered complete when all hazardous waste management units at the facility have been closed in accordance with all applicable closure requirements so that hazardous waste management activities under 40 CFR Parts 264 and 265 are no longer conducted at the facility unless subject to the provisions in 40 CFR 262.17.

9. All units, sumps, pumps, piping and any other equipment or ancillary components which have come in contact with hazardous wastes shall either be decontaminated by removing all waste, waste residues, and sludges or be disposed of in a manner authorized at this facility or disposed of at an authorized off-site facility.

Table III-2 Hazardous Waste Management Unit Checklist

Waste Management Unit	TCEQ N.O.R. Unit #	Status[1]	Design Capacity[2]	Number of Years Utilized	Date in Service
Landfill	001	Never Built	Never Built	Never Built	Never Built
East+West Landfill	002	Active	2,310,000 cubic yards	25	February 1997
Landfill	003	Never Built	Never Built	Never Built	Never Built
Container Storage Building, Compartments 1 thru 5 Compartments 6 thru 10	004	Active	275,000 gal total 28,600 gal each 26,400 each	25	February 1997
Bin Storage Unit 1 Bin Storage Area 1 Bin Storage Area 2 Bin Storage Area 3	005	Active	3,510 cubic yards total 1,080 cubic yards 1,080 cubic yards 1,350 cubic yards	25	February 1997
Bin Storage Unit 2	006	Active	3,240 cubic yards total	17	May 2005
Bin Storage Unit 3	007	Never Built	Never Built	Never Built	Never Built
Stabilization Building Mixing Tanks Mixing Tank MT-1 Mixing Tank MT-2 Mixing Tank MT-3 Mixing Tank MT-4	008	 Inactive Active Active Proposed	340 cubic yards total 85 cubic yards 85 cubic yards 85 cubic yards 85 cubic yards	 25 25 21 0	 April 1997 April 1997 May 2001 N/A
Stabilization Building CSAs Container Storage Area (north) Container Storage Area (south)	008	 Active Active	24,640 gal total 12,320 gal 12,320 gal	25	 April 1997 April 1997
Napalm Processing /Railroad Container Unloading Area	009	Never Built	Never Built	Never Built	Never Built
Waste Water Treatment Plant	010	Active	910,600 gal	25	April 1997
Leachate Treatment Unit 1	011	Inactive	N/A		April 2001
Leachate Treatment Unit 2	012	Inactive	N/A		April 2001
Leachate Treatment Unit 3	013	Inactive	N/A		April 2001
Leachate Treatment Unit 4	014	Inactive	N/A		April 2001
Mixing Tank MT-1	015	Inactive	88 cubic yards	N/A	April 2001
Mixing Tank MT-2	016	Inactive	88 cubic yards	N/A	April 2001

Table III-2 Hazardous Waste Management Unit Checklist

Waste Management Unit	TCEQ N.O.R. Unit #	Status[1]	Design Capacity[2]	Number of Years Utilized	Date in Service
Mixing Tank MT-3	017	Inactive	88 cubic yards	N/A	June 2003
Mixing Tank MT-4	018	Inactive	88 cubic yards	N/A	June 2003
Railcar Bulk Waste Unloading Area	019	Closed	N/A	N/A	February 1997
Truck and Equipment Wash	020	Active	160.1 square feet	24	May 1998
90 Day Storage Unit — Containment Area in front of CSA Dock	021	Active	2,002.5 square feet	23	March 1999
Thermal Processing Unit (Not Incinerator)	022	Closed	N/A		October 2003(This is closed date)
90 Day Storage Unit — Lab Waste East of Admin Building	023	Active		22	October 2000
90 Day Accumulation Area for ITDU	025	Inactive			March 2002(This is closed date)
90 Day Storage Unit — East Side of Permacon Airlock	026	Active	19.4 square feet	20	January 2002
90 Day Storage Unit — East+West Landfill	027	Inactive	N/A		September 2004(This is closed date)
East Sub-Surface Poly Holding Tank	028	Active		15	March 2007
West Sub-Surface Poly Holding Tank	029	Active		15	March 2007
Less Than 90 day storage area inside maintenance shop	030	Inactive	N/A		February 2009 (This is closed date)
Less Than 90 day storage inside mixed waste treatment facility	031	Active	5.8 square feet	14	February 2008
Less Than 90 Day storage at TC building	033	Inactive	N/A		February 2011(This is closed date)
Waste Compactor	034	Active	90 cubic feet	10	May 2012
FWF FACILITY RCRA SURFACE IMPOUNDMENT	035	Active	10.3 million gallons	11	October 2011
Waste Treatment Facility- Geomelt Unit	036	Active	480 cubic feet	N/A	June 02, 2022

[1]Indicate only one of the following: Active, Inactive, Closed, or Proposed

[2]Cubic yards, gallons, pounds, gallons/minute, pounds/hour, BTUs/hour, etc.

TABLE III.D. INSPECTION SCHEDULE

Facility Unit(s) and Basic Elements	*Possible Error, Malfunction, or Deterioration*	*Frequency of Inspection*
GENERAL INSPECTION (ACTIVE FACILITY) – SECURITY DEVICES		
Perimeter Fence	• Check for breaches and damage	Monthly
Gates	• Check for damage • Check for proper operation • Check for presence and function of locking mechanism	Weekly
Perimeter Warning Signs	• Check for presence and legibility of warning signs	Monthly
Exterior Lighting	• Check for proper function	Weekly
GENERAL INSPECTION (POST-CLOSURE) – SECURITY DEVICES		
Perimeter Fence	• Check for breaches and damage	Semiannually
Gates	• Check for damage • Check for proper operation • Check for presence and function of locking mechanism	Semiannually
Perimeter Warning Signs	• Check for presence and legibility of warning signs	Semiannually
GENERAL INSPECTION (ACTIVE FACILITY) – ENVIRONMENTAL MONITORING SYSTEMS		
Groundwater Monitoring Wells	• Check integrity of pad and subgrade • Check protective casing - Presence of label - Presence/proper function of cap and lock - Evidence of damage or instability • Check well casing - Presence of cap - Evidence of damage or instability	Semiannually when each well is monitored
GENERAL INSPECTION (POST-CLOSURE) – ENVIRONMENTAL MONITORING SYSTEMS		
Groundwater Monitoring Wells	• Check integrity of pad and subgrade • Check protective casing - Presence of label - Presence/proper function of cap and lock - Evidence of damage or instability • Check well casing - Presence of cap - Evidence of damage or instability	Annually when each well is monitored

TABLE III.D. INSPECTION SCHEDULE

Facility Unit(s) and Basic Elements	*Possible Error, Malfunction, or Deterioration*	*Frequency of Inspection*
GENERAL INSPECTION (ACTIVE FACILITY) – SAFETY AND EMERGENCY EQUIPMENT		
Protective Clothing Designated for Emergency Use	• Check for adequate supply • Check accessibility • Check for deterioration/damage	Monthly or after each use
Breathing Apparatus	• Check for adequate supply • Check accessibility • Check for deterioration/damage • Check for function	Monthly or after each use
First Aid Kits	• Check for adequate supply • Check accessibility	Monthly or after each use
Emergency Showers and Eye Wash Stations	• Check that units activate and shut off properly • Check water pressure • Check accessibility	Monthly
Alarm Systems (Plant-wide and operational areas)	• Check accessibility • Activate alarm (power/battery failure/function)	Monthly
Internal (2-way radio) and External (phone) Communications Systems	• Check accessibility • Check operation	Monthly
Fire Extinguishers	• Check pressure gauge for full charge indication • Check inspection tag to ensure annual maintenance by qualified inspection service is up-to-date • Check seal to ensure that no one has used extinguisher • Check accessibility	Monthly or after each use
Spill Control Supplies (shovels, brooms, booms, etc.) and Kits	• Check for adequate supply • Check accessibility • Check for deterioration/damage	Monthly or after each use
Absorbent Supply	• Check for adequate supply	Monthly or after each use
Empty Drums	• Check for adequate supply	Monthly

TABLE III.D. INSPECTION SCHEDULE

Facility Unit(s) and Basic Elements	***Possible Error, Malfunction, or Deterioration***	***Frequency of Inspection***
Other Safety and Emergency Equipment	• Check for adequate supply • Check accessibility • Check for deterioration/damage • Check proper operation	Monthly
Emergency Information List	• Check current information • Check for posting at each phone	Monthly
Emergency Lighting and Exit Signs	• Check for proper function	Monthly
Facility Warning Signs (No Smoking, Authorized Personnel Only, etc.)	• Check for presence and legibility	Monthly
Fire Suppression Systems	• Check water hoses for damage and accessibility • Check water delivery systems for corrosion, damage and proper valve functioning • Check sprinkler system pressure gauges, pipes, sprinkler heads, obstructions to flow, adequate water supply, compressors, etc.	Monthly
Fire Detection Systems	• Check for power/battery failure	Monthly
RAILCAR LOADING/UNLOADING AND INSPECTION AREAS (ACTIVE FACILITY)		
Railcar Pedestal Unloading Building	• Check for evidence of spills, leaks, or other releases • Check for secure tarps or other closure devices on full railcars • Check for integrity of truck loading pads	Daily when in use
Railcar Pedestal Unloading Building Truck Haul Road	• Check for evidence of spills, leaks, or other releases	Daily when in use
Inspection Station/Truck Scales	• Check for evidence of spills, leaks, or other releases	Daily when in use

TABLE III.D. INSPECTION SCHEDULE

Facility Unit(s) and Basic Elements	*Possible Error, Malfunction, or Deterioration*	*Frequency of Inspection*
CONTAINER STORAGE UNIT INSPECTIONS (ACTIVE FACILITY)		
Container Storage Building	• Check for liquids or other materials on floors • Check for condition of containers • Check for secure container lids, tarps or other closure devices • Check for integrity of floors and curbing • Check adequacy of aisle space • Check for proper container placement (pallets, stacking, etc.)	Weekly
Container Storage Building Dock and Staging Areas	• Check for liquids and other materials on floors. • Check for liquids and other materials in sumps • Check for secure container lids, tarps, or other closure devices • Check for integrity of floors, curbing, sumps and grates	Daily when in use
Bin Storage Unit 1	• Check for liquids or other materials on floors and in trenches and sumps • Check for condition of containers • Check for secure container lids, tarps, or other closure devices • Check for integrity of floors and curbing • Check adequacy of aisle space • Check for proper container placement (pallets, stacking, etc.) • Check for storm water on bin tarps • Check PermaCon HEPA vents for clogging or restriction – Weekly • Check HEPA and HVAC equipment for damage and proper function – Weekly • Check heavy equipment for damage and proper function – Weekly • Check backup generator for damage and proper function – Weekly	Weekly

TABLE III.D. INSPECTION SCHEDULE

Facility Unit(s) and Basic Elements	*Possible Error, Malfunction, or Deterioration*	*Frequency of Inspection*
Bin Storage Unit 2	• Check for liquids or other materials on asphalt pad and in storm water basins • Check for condition of containers • Check for secure container lids, tarps, or other closure devices • Check for integrity of asphalt pad and curbing • Check for storm water on bin tarps • Check adequacy of aisle space • Check for proper container placement (pallets, stacking, etc.)	Weekly
Stabilization Building Container Storage Areas	• Check for liquids or other materials on floors • Check for condition of containers • Check for secure container lids, tarps, or other closure devices • Check for integrity of floors and curbing • Check adequacy of aisle space • Check for proper container placement (pallets, stacking, etc.)	Weekly
RCRA STABILIZATION BUILDING TREATMENT AREA INSPECTIONS (ACTIVE FACILITY)		
Mixing Tanks	• Check visible portions of Mixing Tanks for visually apparent damage (cracks, gouges, deterioration, corrosion, pitting and abrasions) • Check all interior surfaces of Mixing Tanks for cracks, gouges, deterioration, corrosion, pitting, abrasions and leaks • Check for presence of liquids in leak detection system pipes	Daily when in use, weekly otherwise Quarterly when in use Daily when in use, weekly otherwise
Ancillary Equipment	• Check for damage to sealing system between tanks and floor • Check for liquids or other materials on floors and around leak detection system inspection ports • Check the condition of bins or other containers • Check for integrity of floors and curbing • Check vents for clogging or restriction	Daily when in use, weekly otherwise Daily when in use, weekly otherwise Weekly when in use Weekly when in use Weekly when in use

TABLE III.D. INSPECTION SCHEDULE

Facility Unit(s) and Basic Elements	*Possible Error, Malfunction, or Deterioration*	*Frequency of Inspection*
Geomelt	• Check heavy equipment for damage and proper function	Weekly when in use
	• Check treatment hood for deformities	Daily when in use
	• Check transformer connections	Daily when in use
Emissions Control Equipment	• Check vents for clogging or restriction	Weekly when in use
	• Check the baghouse system for damage and proper operation	Weekly when in use
	• Check ventilation system for damage and proper operation	Weekly when in use
Loading/Unloading Areas (north and south)	• Check for evidence of spills, leaks, or other releases	Daily when in use
MIXED WASTE STABILIZATION BUILDING TREATMENT AREA INSPECTIONS (ACTIVE FACILITY)		
Mixing Tanks	• Check visible portions of Mixing Tanks for visually apparent damage (cracks, gouges, deterioration, corrosion, pitting and abrasions)	Daily when in use, weekly otherwise
	• Check all interior surfaces of Mixing Tanks for cracks, gouges, deterioration, corrosion, pitting, abrasions and leaks	Quarterly when in use
	• Check for presence of liquids in leak detection system pipes	Daily when in use, weekly otherwise
Ancillary Equipment (example: waste compactor, shredder, drum crusher)	• Check for damage to sealing system between tanks and floor	Daily when in use, weekly otherwise
	• Check for liquids or other materials on floors and around leak detection system inspection ports	Daily when in use, weekly otherwise
	• Check for integrity of floors and curbing	Weekly when in use
	• Check the condition of bins or other containers	Weekly when in use
	• Check heavy equipment for damage	Weekly when in use
	• Check shredder and drum crusher for damage, leaks	Weekly when in use
	• Check waste compactor for damage, leaks	Weekly when in use
Emissions Control Equipment	• Check vents for clogging or restriction	Weekly when in use
	• Check the baghouse system for damage and proper operation	Weekly when in use
	• Check ventilation system for damage and proper operation	Weekly when in use
Loading Bay	• Check for evidence of spills, leaks, or other releases	Daily when in use

TABLE III.D. INSPECTION SCHEDULE

Facility Unit(s) and Basic Elements	*Possible Error, Malfunction, or Deterioration*	*Frequency of Inspection*
LANDFILL INSPECTION (ACTIVE FACILITY)		
Perimeter Dikes	• Check dikes for erosion and deterioration	Weekly and after storm events
Drainage System	• Check ditches for erosion, siltation and debris • Check landfill cells for accumulation of storm water	Weekly and after storm events
Cover Systems	• Check interim cover for erosion, deterioration, or dust dispersal • Check final cover for erosion, deterioration, and condition of vegetative cover	Weekly and after storm events
Wind Dispersal Control	• Check for evidence of waste, reagent, or dust dispersal	Weekly
Leachate Collection System	• Check for presence and level of liquid in risers • Check condition of risers and manholes • Check pump and level alarm function • Check integrity of temporary accumulation vessel(s)	At least weekly and after storm events
Leak Detection System	• Check for presence and level of liquid in risers • Check condition of risers and manholes • Check pump function • Check integrity of temporary accumulation containers	At least weekly
Truck Wash	• Check the integrity of the containment skid • Check for the presence of liquids and debris within the skid • Check washing equipment for damage and operability	Weekly
LANDFILL INSPECTION – (POST-CLOSURE)		
Perimeter Dikes	• Check dikes for erosion and continuity of cobblestones and vegetation	Semiannually and after major storm events
Drainage System	• Check ditches for erosion, siltation and debris • Check concrete ditches and rundown chutes for grade and debris	Semiannually and after major storm events

TABLE III.D. INSPECTION SCHEDULE

Facility Unit(s) and Basic Elements	*Possible Error, Malfunction, or Deterioration*	*Frequency of Inspection*
Cover Systems	• Check final cover for erosion, grade and continuity of cobblestones and natural vegetation; check for indications of ponding (pooled water, soft areas, etc.)	Semiannually and after major storm events
Leachate Collection System	• Check for presence and level of liquid in risers • Check condition of risers and manholes • Check pump function	At least monthly
Leak Detection System	• Check for presence and level of liquid in risers • Check condition of risers and manholes	In accordance with 40 CFR §264.303(c)(2)[1].
Benchmarks	• Check for damage • Check for validity	Semiannually or during any general inspection Every 5 years
SURFACE IMPOUNDMENT – (ACTIVE FACILITY)		
Overtopping Control System	• Check level marks on sidewall for damage and visibility.	Weekly and after storm events
Wastewater Levels	• Check for any sudden drops in wastewater levels.	Weekly and after storm events
Perimeter Dikes/Berms	• Check for erosion and deterioration.	Weekly and after storm events
Leak Detection System	• Check for presence and level of liquid in riser • Check condition of riser • Check pump function	At least weekly
Double walled piping to impoundment	• Check each inspection vault for liquids • Check ground surface along pipe route for evidence of release	At least monthly. Also, prior to initiation of a wastewater transfer and upon completion of the transfer.

[1]Initially, the leak detection system will be inspected at least monthly. If the liquid level in the riser stays below the portable, submersible pump operating level for two consecutive months, the inspection frequency will be reduced and inspections will be conducted at least quarterly. If the liquid level in the riser stays below the pump operating level for two consecutive quarters, the inspection frequency will be reduced to at least semiannually. If the pump operating level in a riser is exceeded during a quarterly or semiannual inspection, the inspection frequency of that riser will be increased to at least monthly.

Table III.E.2 - Emergency Coordinators

Name	Home Address	Office Phone(s) and/or Pager	Home Phone(s)
Primary			
Primary Teddy Anthony	401 Northwest 8th Street Apt #5 Andrews, TX 79714	Office: 432-525-8694 Cell: 806-683-0444	Home- 24 Hour Cell: 806-683-0444

Name	Home Address	Office Phone(s) and/or Pager	Home Phone(s)
Alternate Jesse Garcia	1504 Cedar Lane Andrews, TX 79714	Office: 432-525-8612 Cell: 801-550-8803	Home- 24 Hour Cell: 801-550-8803
Alternate Jay Cartwright	1500 Heritage Blvd. Andrews, TX 79714	Office: 432-525-8698 Cell: 432-238-7635	Home- 24 Hour Cell: 432-238-7635
Alternate Matt Pope	13 Charolais Road Odessa TX, 79765	Office: 432-525-8625 Cell: 432-310-8004	Home- 24 Hour Cell: 432-310-8004
Alternate David Lynch	1505 Nehemiah Drive Andrews, TX 79714	Office: 432-525-8696 Cell: 432-967-5750	Home- 24 Hour Cell: 432-967-5750
Alternate John Ward	1011 NW 13th Street Andrews, TX 79714	Office: 432-525-8638 Cell: 432-425-6435	Home- 24 Hour Cell: 432-425-6435
Alternate Jeremy Nelson	1103 SW 2nd Street Andrews, TX 79714	Office: 432-525-8800 Cell: 907-978-8928	Home- 24 Hour Cell: 907-978-8928
Alternate Bobby Garcia	1504 W. Ponderosa Hobbs, NM 88242	Office: 432-525-8800 Cell: 915-249-5365	Home- 24 Hour Cell: 915-249-5365

Table IV.B. - Wastes Managed in Permitted Units

No.	Waste	EPA Hazardous Waste Numbers [1, 2, 3, 4, 5, 6]	TCEQ Waste Form Codes and Classification Codes
1	Land Disposable Waste (LDW) w/o free liquids[2]	D001 D002 D003[3] D004D005 D006 D007 D008 D009 D010 D011 D012 D013 D014 D015 D016 D017 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D031 D032 D033 D034 D035 D036 D037 D038 D039 D040 D041 D042 D043 F001 F002 F003 F004 F005 F006 F007 F008 F009 F010 F011 F012 F019 F024 F025 F028 F032 F034 F035 F037 F038 F039 K001 K002 K003 K004 K005 K006 K007 K008 K009 K010 K011 K013 K014 K015 K016 K017 K018 K019 K020 K021 K022 K023 K024 K025 K026 K027 K028 K029 K030 K031 K032 K033 K034 K035 K036 K037 K038 K039 K040 K041 K042 K043 K044[3]K045[3]K046 K047[3]K048 K049 K050 K051 K052 K060 K061 K062 K069 K071 K073 K083 K084 K085 K086 K087 K088 K093 K094 K095 K096 K097 K098 K099 K100 K101 K102 K103 K104 K105 K106 K107 K108 K109 K110 K111 K112 K113 K114 K115 K116 K117 K118 K123 K124 K125 K126 K131 K132 K136 K141 K142 K143 K144 K145 K147 K148 K149 K150 K151 K156 K157 K158 K159 K161 K169 K170 K171 K172 K174 K178 P001 P002 P003 P004 P005 P006 P007 P008 P009[3] P010 P011 P012 P013 P014 P015 P016 P017 P018 P020 P021 P022 P023 P024 P026 P027 P028 P029 P030 P031 P033 P034 P036 P037 P038 P039 P040 P041 P042 P043 P044 P045 P046 P047 P048 P049 P050 P051 P054 P056 P057 P058 P059 P060 P062 P063 P064 P065 P066 P067 P068 P069 P070 P071 P072 P073 P074 P075 P076[4] P077 P078[4] P081[3]P082 P084 P085 P087 P088 P089 P092 P093 P094 P095 P096 P097 P098 P099 P101 P102 P103 P104 P105 P106 P108 P109 P110 P111 P112[3] P113 P114 P115 P116 P118 P119 P120 P121 P122 P123 P127 P128 P185 P188 P189 P190 P191 P192 P194 P196 P197 P198 P199 P201 P202 P203 P204 P205 U001 U002 U003 U004 U005 U006 U007 U008 U009 U010 U011 U012 U014 U015 U016 U017 U018 U019 U020 U021 U022 U023 U024 U025 U026 U027 U028 U029 U030 U031 U032 U033 U034 U035 U036 U037 U038 U039 U041 U042 U043 U044 U045 U046 U047 U048 U049 U050 U051 U052 U053 U055 U056 U057 U058 U059 U060 U061 U062 U063 U064 U066 U067 U068 U069 U070 U071 U072 U073 U074 U075 U076 U077 U078 U079 U080 U081 U082 U083 U084 U085 U086 U087 U088 U089 U090 U091 U092 U093 U094 U095 U096[3]U097 U098 U099 U101 U102 U103 U105 U106 U107 U108 U109 U110 U111 U112 U113 U114 U115 U116 U117 U118 U119 U120 U121 U122 U123 U124 U125 U126 U127 U128 U129 U130 U131 U132 U133[3]U134 U135 U136 U137 U138 U140 U141 U142 U143 U144 U145 U146 U147 U148 U149 U150 U151 U152 U153 U154 U155 U156 U157 U158 U159 U160[3] U161U162 U163 U164 U165 U166 U167 U168 U169 U170 U171 U172 U173 U174 U175 U176 U177 U178 U179 U180 U181 U182 U183 U184 U185 U186 U187 U188 U189 U190 U191 U192 U193 U194 U196 U197 U200 U201 U202 U203 U204 U205 U206 U207 U208 U209 U210 U211 U213 U214 U215 U216 U217 U218 U219 U220 U221 U222 U223 U225 U226 U227 U228 U234[3]U235 U236 U237 U238 U239 U240 U243 U244 U246 U247 U248 U249 U271 U277 U278 U279 U280 U328 U353 U359 U364 U367 U372 U373 U387 U389 U394 U395 U404 U409 U410 U411	Classification Codes: H, 1, 2, and 3 Form Codes: Lab Packs: (001, 002, 003, 004, 009); Inorganic Liquids: (101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 119, 198, 199); Organic Liquids: (201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 219, 296, 297, 298, 299); Inorganic Solids: (301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 319, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399); Organic Solids: (401, 402, 403, 404, 405, 406, 407, 409, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499); Inorganic Sludges: (501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 519, 597, 598, 599); Organic Sludges: (601, 602, 603, 604, 605, 606, 607, 608, 609, 695, 696, 697, 698, 699) Plant Trash: (902, 999).
2	LDW w/ free liquids[2]	See EPA waste code list for Waste No. 1 above	See Classification Codes and Form Codes listed for Waste No. 1 above.

Table IV.B. - Wastes Managed in Permitted Units

No.	Waste	EPA Hazardous Waste Numbers [1, 2, 3, 4, 5, 6]	TCEQ Waste Form Codes and Classification Codes
3	RCRA-only Land Disposal Restricted Waste (LDRW) w/ free liquids	D001 D002 D003[3] D004 D005 D006 D007 D008 D009 D010 D011 D012 D013 D014 D015 D016 D017 D018 D019 D020 D021 D022 D023 D024 D025 D026 D027 D028 D029 D030 D031 D032 D033 D034 D035 D036 D037 D038 D039 D040 D041 D042 D043 F001 F002 F003 F004 F005 F006 F007 F008 F009 F010 F011 F012 F019 F020[5] F021[5] F022[5] F023[5] F024 F025 F026[5] F027[5] F028 F032 F034 F035 F037 F038 F039 K001 K002 K003 K004 K005 K006 K007 K008 K009 K010 K011 K013 K014 K015 K016 K017 K018 K019 K020 K021 K022 K023 K024 K025 K026 K027 K028 K029 K030 K031 K032 K033 K034 K035 K036 K037 K038 K039 K040 K041 K042 K043 K044[3] K045[3] K046 K047[3] K048 K049 K050 K051 K052 K060 K061 K062 K069 K071 K073 K083 K084 K085 K086 K087 K088 K093 K094 K095 K096 K097 K098 K099 K100 K101 K102 K103 K104 K105 K106 K107 K108 K109 K110 K111 K112 K113 K114 K115 K116 K117 K118 K123 K124 K125 K126 K131 K132 K136 K141 K142 K143 K144 K145 K147 K148 K149 K150 K151 K156 K157 K158 K159 K161 K169 K170 K171 K172 K174 K178 P001 P002 P003 P004 P005 P006 P007 P008 P009[3] P010 P011 P012 P013 P014 P015 P016 P017 P018 P020 P021 P022 P023 P024 P026 P027 P028 P029 P030 P031 P033 P034 P036 P037 P038 P039 P040 P041 P042 P043 P044 P045 P046 P047 P048 P049 P050 P051 P054 P056 P057 P058 P059 P060 P062 P063 P064 P065 P066 P067 P068 P069 P070 P071 P072 P073 P074 P075 P076[4] P077 P078[4] P081[3] P082 P084 P085 P087 P088 P089 P092 P093 P094 P095 P096 P097 P098 P099 P101 P102 P103 P104 P105 P106 P108 P109 P110 P111 P112[3] P113 P114 P115 P116 P118 P119 P120 P121 P122 P123 P127 P128 P185 P188 P189 P190 P191 P192 P194 P196 P197 P198 P199 P201 P202 P203 P204 P205 U001 U002 U003 U004 U005 U006 U007 U008 U009 U010 U011 U012 U014 U015 U016 U017 U018 U019 U020 U021 U022 U023 U024 U025 U026 U027 U028 U029 U030 U031 U032 U033 U034 U035 U036 U037 U038 U039 U041 U042 U043 U044 U045 U046 U047 U048 U049 U050 U051 U052 U053 U055 U056 U057 U058 U059 U060 U061 U062 U063 U064 U066 U067 U068 U069 U070 U071 U072 U073 U074 U075 U076 U077 U078 U079 U080 U081 U082 U083 U084 U085 U086 U087 U088 U089 U090 U091 U092 U093 U094 U095 U096[3] U097 U098 U099 U101 U102 U103 U105 U106 U107 U108 U109 U110 U111 U112 U113 U114 U115 U116 U117 U118 U119 U120 U121 U122 U123 U124 U125 U126 U127 U128 U129 U130 U131 U132 U133[3] U134 U135 U136 U137 U138 U140 U141 U142 U143 U144 U145 U146 U147 U148 U149 U150 U151 U152 U153 U154 U155 U156 U157 U158 U159 U160[3] U161 U162 U163 U164 U165 U166 U167 U168 U169 U170 U171 U172 U173 U174 U175 U176 U177 U178 U179 U180 U181 U182 U183 U184 U185 U186 U187 U188 U189 U190 U191 U192 U193 U194 U196 U197 U200 U201 U202 U203 U204 U205 U206 U207 U208 U209 U210 U211 U213 U214 U215 U216 U217 U218 U219 U220 U221 U222 U223 U225 U226 U227 U228 U234[3] U235 U236 U237 U238 U239 U240 U243 U244 U246 U247 U248 U249 U271 U277 U278 U279 U280 U328 U353 U359 U364 U367 U372 U373 U387 U389 U394 U395 U404 U409 U410 U411	See Classification Codes and Form Codes listed for Waste No. 1 above.

Table IV.B. - Wastes Managed in Permitted Units

No.	Waste	EPA Hazardous Waste Numbers [1, 2, 3, 4, 5, 6]	TCEQ Waste Form Codes and Classification Codes
4	RCRA-only LDRW w/o free liquids	See EPA waste code list for Waste No. 3 above	See Classification Codes and Form Codes listed for Waste No. 1 above.
5	Mixed LDRW w/free liquids	See EPA waste code list for Waste No. 3 above	See Classification Codes and Form Codes listed for Waste No. 1 above.
6	Mixed LDRW w/o free liquids	See EPA waste code list for Waste No. 3 above	See Classification Codes and Form Codes listed for Waste No. 1 above.
7	Non-Hazardous Industrial Wastes***	Class 1, Class 2, and Class 3 Industrial Solid Wastes	See Classification Codes and Form Codes listed for Waste No. 1 above.
8	Non-Hazardous Non-Industrial Wastes ***	Nonhazardous wastes from non-industrial entities	Not applicable
		a. Asbestos containing materials	
		b. Non-hazardous off-specification or spent chemical products	
		c. Non-hazardous remediation and demolition waste (e.g., chemically impacted soil, personal protective equipment, and building materials)	
		d. PCB Wastes	

Table IV.B. - Wastes Managed in Permitted Units

No.	Waste	EPA Hazardous Waste Numbers [1, 2, 3, 4, 5, 6]	TCEQ Waste Form Codes and Classification Codes
9	LDW with free liquids (generated and treated at the adjacent WCS operated facility permitted by HW-50397)	F039 (primary); may also carry one or more U- and/or P-codes due to code carry-through (for decontamination and other non-leachate wastewaters.)	Inorganic Liquids: (116, 119)

[1] Hazardous waste codes identified in this table are derived from the codes in existence on January 20, 2005.
[2] LDW wastes may carry any of the codes listed. However, for codes requiring treatment by a specific technology that is not available at the WCS site (e.g., combustion), the waste will have been treated elsewhere to achieve the applicable treatment standard prior to receipt at WCS, and the code carries through to the treatment residue.
[3] No wastes that are explosive as defined in 40 CFR Part §261.23(a)(6), (7), or (8) are acceptable. Wastes bearing the noted waste codes are acceptable if they are not explosive as defined in the cited regulations.
[4] Waste compressed gases, except aerosol cans, are not acceptable.
[5] Wastes bearing the F020, F021, F022, F023, F026 or F027 codes will not be disposed in the landfill.
[6] EPA Hazardous Waste Numbers are applicable only to those wastes that are designated as hazardous in accordance with RCRA and that are assigned an "H" classification code.
*** Subject to limitations of permit Provision IV.B.4.f.

TABLE IV.C. SAMPLING AND ANALYTICAL METHODS

Waste No.[1]	Sampling Location	Sampling Method[2]	Frequency[3]	Parameter[4]	Test Method[2]	Desired Accuracy Level
				Mandatory Analyses (pre-acceptance and fingerprint):		
1, 2, 3, 4, 5, 6	Generator, Inspection Station, Railcar Staging Area, Container Storage Units, Railcar Pedestal Unloading Building (waste nos. 1, 2, 3 and 4)	Scoop, coliwasa, trier, shovel	Initial and once per shipment unless exempted by WAP	Physical Description	ASTM D 4979	Results match profile
				pH Screen	SW-846 Method 9040	Std + 1.0 Standard unit (S.U.)
				Water Reactivity	ASTM D 5058	Results match profile
				Flammability Potential	ASTM D 4982	Duplicate samples must have same reaction
				Cyanide Screen		Duplicate samples must have same reaction
				Sulfides Screen	ASTM D 4978	Duplicate samples must have same reaction
				Radioactivity Screen (excluding wastes 4, 5, and 6)	ASTM D 5928	Source check must meet manufacturer's specifications
				Process Analyses for Stabilization:		
3, 4, 5, 6	Generator, Inspection Station, Railcar Staging Area, Container Storage Units, Stabilization Building, Railcar Pedestal Unloading Building (waste nos. 3 and 4)	Scoop, coliwasa, trier, shovel	Prior to acceptance or treatment	Stabilization Treatability Study (includes TCLP\Total Constituent Analyses (TCA) – metals and/or organics as appropriate)	SW 846 1311	NA
					SW 846 Methods 6010,6020, 7470	MS Recovery ± 25%
					SW 846 Methods 8260, 8270	MS Recovery within laboratory limits

TABLE IV.C. SAMPLING AND ANALYTICAL METHODS

Waste No.[1]	Sampling Location	Sampling Method[2]	Frequency[3]	Parameter[4]	Test Method[2]	Desired Accuracy Level
3, 4, 5, 6	Container Storage Units, Stabilization Building, Railcar Pedestal Unloading Building (waste nos. 3 and 4)	Scoop, coliwasa, trier, shovel	First 2 batches; min. 1/year thereafter	Post Treatment Verification (TCLP\Total Constituent Analyses (TCA) – metals and/or organics as appropriate)	SW 846 1311	NA
					SW 846 Methods 6010, 6020, 7470	MS Recovery ± 25%
					SW 846 Methods 8260, 8270	MS Recovery within laboratory limits
				Process Analyses for landfill and surface impoundment:		
1	NA	NA	NA	None	NA	NA
2, 3	Inspection Station, Railcar Staging Area, Container Storage Units, Railcar Pedestal Unloading Building, Stabilization Building	Scoop, coliwasa, trier, shovel	1/batch	Paint Filter Test	SW 846 Method 9095	Duplicate samples must have same reaction
3	See Process Analyses for Stabilization, Post Treatment Verification					
				Supplemental Analyses:		
1,2,3, 4,5, 6, 9	Generator, Inspection Station, Railcar Staging Area,	Scoop, coliwasa, trier, shovel,	As determined by facility management	GC/MS	SW 846 Method 8260, SW 846 Method 8270	MS Recovery within laboratory limits
				PCBs	SW 846 Method 8082	MS Recovery within laboratory limits

TABLE IV.C. SAMPLING AND ANALYTICAL METHODS

Waste No.[1]	Sampling Location	Sampling Method[2]	Frequency[3]	Parameter[4]	Test Method[2]	Desired Accuracy Level
	Container Storage Units, Railcar Pedestal Unloading Building (waste nos. 1, 2, 3 and 4), Stabilization Building, Surface Impoundment	bailer, weighted bottle sampler, pump		Metals	SW 846 Methods 6010,6020, 7470	MS Recovery ± 25%
				Commingled Waste Compatibility	ASTM D 5058	National Institute of Standards and Testing Traceable thermometer used
				Reactive Sulfides	SW 846 Chapter 7 Section 7.3	Duplicate samples must match.
				Reactive Cyanide	SW 846 Chapter 7 Section 7.3	Duplicate samples must match.
				Oxidizer Screen	ASTM D 4981	Duplicate samples must match

[1]from Table IV.B, first column
[2]See WAP for additional methods.
[3]Frequencies shown are generalized for purposes of presentation in this table; see WAP for specifics.
[4]Not all parameters apply to each sample; see WAP for specifics.

TABLE V.B CONTAINER STORAGE AREAS

Permit Unit No.	**Container Storage Area**	**N.O.R. Unit #**	**Rated Capacity**	**Dimensions**	**Containment Volume** (including rainfall for unenclosed areas)	**Unit will manage Ignitable**,[1] **Reactive**,[1] **or Incompatible**[2] **Waste** (state all that apply)
004	Container Storage Building (Compartments 1 through 10)[5]	004	275,000 gal (5,000 55-gal drums or equivalent)[4]	165 feet x 190 feet	125,160 gallons	Ignitable: Yes, Reactive: Yes, Incompatible: Yes
005	Bin Storage Unit 1(BSU-1) {Bin Storage Areas 1 through 3 (BSA 1-3)}	005	3510 yd^3 (not to exceed 1000 yd^3 of land disposal restricted waste)[4]	160 feet x 404 feet	BSA-1:634 cubic yards BSA-2: 19,000 gallons[3] BSA-3: 19,000 gallons[3]	Ignitable: Yes, Reactive: Yes, Incompatible: Yes
006	Bin Storage Unit 2 (BSU-2)	006	3240 yd^3 (not to exceed 2160 yd^3 of land disposal restricted waste)	160 feet x 400 feet	No Containment Required	Ignitable: Yes, Reactive: Yes, Incompatible: Yes
008	Stabilization Building	008	-	-	-	-
008.e	Stabilization Building Container Storage Area (North)	008	12,320 gal (224 55-gal drums or equivalent)	55 feet x 37.5 feet	12,650 gallons	Ignitable: Yes, Reactive: Yes, Incompatible: Yes
008.f	Stabilization Building Container Storage Area (South)	008	12,320 gal (224 55-gal drums or equivalent)	55 feet x 40 feet	8,262 gallons	Ignitable: Yes, Reactive: Yes, Incompatible: Yes

[1]Containers managing ignitable or reactive waste must be located at least 15 meters (50 feet) from the facility's property line.
[2]Incompatible waste must be separated from other waste or materials stored nearby in other containers, piles, open tanks, or surface impoundments by means of a dike, berm, wall, or other device.
[3] The BSA-2 and BSA-3 containment structures in BSU-1 currently drain to a common storm water collection sump with a nominal capacity of 19,000 gallons (94 cubic yards). The calculated capacity of the sump, based on construction drawings, is 19,747 gallons. The proposed alternate configuration of the BSA-2 and BSA-3 containment structures will provide a combined containment capacity of 713.9 cubic yards for the two units.
[4]The total combined volume of wastes stored in the Container Storage Building and BSA-1 that are assigned the F020, F021, F022, F023, F026 and F027 waste codes will not exceed One 55-gallon drum equivalent.
[5] Elemental mercury received shall only be stored in compartments 6, 7, 8, and 9 as described in Provision IV.B.8.

TABLE V.C TANKS AND TANK SYSTEMS

Permit Unit No.	Tank	N.O.R. Unit #	Storage and/or Processing	Waste Nos[1]	Rated Capacity	Dimensions	Containment Volume (including rainfall for unenclosed areas)	Unit Will Manage Ignitable, Reactive, or Incompatible Waste (State all that apply)
008	Stabilization Building	-	-	-	-	-	-	-
008.a.	Mixing Tank MT-1	015	Processing	All Authorized Wastes	85 cubic yards	19.8' x 19.8' (top) 19.8' x 16.1' (bottom) 6.5' deep	Greater than 85 cubic yards	Ignitable: Yes Reactive: Yes Incompatible: Yes
008.b.	Mixing Tank MT-2	016	Processing	All Authorized Wastes	85 cubic yards	19.8' x 19.8' (top) 19.8' x 16.1' (bottom) 6.5' deep	Greater than 85 cubic yards	Ignitable: Yes Reactive: Yes Incompatible: Yes
008.c.	Mixing Tank MT-3	017	Processing	All Authorized Wastes	85 cubic yards	19.8' x 19.8' (top) 19.8' x 16.1' (bottom) 6.5' deep	Greater than 85 cubic yards	Ignitable: Yes Reactive: Yes Incompatible: Yes
008.d.	Mixing Tank MT-4	018	Processing	All Authorized Wastes	85 cubic yards	19.8' x 19.8' (top) 19.8' x 16.1' (bottom) 6.5' deep	Greater than 85 cubic yards	Ignitable: Yes Reactive: Yes Incompatible: Yes

[1] from Table IV.B, first column

Table V.D.1. - SURFACE IMPOUNDMENTS

Permit Unit No.	Surface Impoundment	N.O.R. No.	Waste Nos.[1]	Rated Capacity	Dimensions	Distance from lowest liner to ground water	Action Leakage Rate (if required)	Unit will manage Ignitable, Reactive, Incompatible, or F020, F021, F022, F023, F026, and F027 Waste (state all that apply)
012	FWF Contact Water Evaporation Pond	035	9	10,310,000 gallons	Varies	220 feet	2,840 gpad	No

[1]from Table IV.B, first column

Table V.D.6. - SURFACE IMPOUNDMENT LINER SYSTEM

Surface Impoundment	Primary Liner			Secondary Liner			Clay Liner		
	Material	Permeability (cm/sec)	Thickness	Material	Permeability (cm/sec)	Thickness	Material	Permeability (cm/sec)	Thickness
FWF Contact Water Evaporation Pond	HDPE	NA	60 mil	HDPE	NA	60 mil	Compacted Clay	1×10^{-7}	3 feet

TABLE V.G.1. LANDFILLS

Permit Unit No.	***Landfill***	***N.O.R. Unit #***	***Waste Nos***[1]	***Rated Capacity***	***Dimensions***[2]	***Distance from lowest liner to ground water***	***Action Leakage Rate*** *(if required)*	***Unit will manage Ignitable, Reactive, Incompatible,*** *or* ***F020, F021, F022, F023, F026, and F027 Waste*** *(state all that apply)*
002	East + West Landfill (Permit Unit No. 2)***	002	1 thru 4, 7, 8	2,310,000 cy	Approximately 41.3 Acres.	72 ft	212 gpad (Cells A-G) 411 gpad (Cells H-K)	Incompatible wastes are properly segregated[3]

[1]from Table IV.B, first column
2Dimensions should be provided as average length, width and depth, also include the surface acreage for the unit.
[3]Wastes that exhibit ignitable and/or corrosive characteristics will not be placed in the landfill with those characteristics, but the D001 ignitable and/or D003 reactive codes will still be associated with the wastes.
*** Waste Nos. 7 and 8 are subject to limitations of permit Provision IV.B.4.f.

TABLE V.G.3. LANDFILL LINER SYSTEM

Permit Unit No.	***Landfill***	***Primary Liner***			***Secondary Liner***			***Clay Liner***		
		Material	Permeability (cm/sec)	Thickness	Material	Permeability (cm/sec)	Thickness	Material	Permeability (cm/sec)	Thickness
02	East + West	HDPE	2.7×10^{-13}	80 mil (Cells A-G) 60 mil (Cells H-K)	HDPE	2.7×10^{-13}	80 mil (Cells A-G) 60 mil (Cells H-K)	Dockum Red Bed	1×10^{-7}	3 feet

TABLE V.G.4 LANDFILL LEACHATE COLLECTION SYSTEM

Landfill	Primary Leachate Collection System					Secondary Leachate Collection System				
	Drainage Media	Collection Pipes (including risers)	Filter Fabric	Geofabric	Sump Material	Drainage Media	Collection Pipes (including risers)	Filter Fabric	Geofabric	Sump Material
East+West Landfill (Cells A-G)	Fine gravel on floor, geocomposite drainage media on sidewalls	Collection Pipes: 5" or 6" HDPE SDR 11; 48" HDPE vertical riser	7 oz. geotextile	16 oz. geotextile (underlying gravel; on floor only)	80 mil HDPE with gravel and geotextile	Fine gravel on floor, geocomposite drainage media on sidewalls	Collection Pipes: 5" or 6" HDPE SDR 11; 8" HDPE SDR 11 sidewall riser	---	16 oz. non-woven, needle-punched geotextile (underlying gravel, on floor only)	80 mil HDPE with gravel and geotextile
East + West Landfill (Cells H-K)	On floor: geocomposite with geonet and minimum 8 oz geotextile filter fabric; on sidewalls: geocomposite drainage media (geonet and 6 oz geotextile,)	6" HDPE collector pipes; 18" HDPE sidewall riser and 6" HDPE sidewall riser cleanout pipes; SDR 11	minimum 8 oz on floor; 6 oz geotextile on sidewall	Geo-composite	2 layers 60 mil HDPE with gravel and 16 oz geotextile	Geonet on floor; geocomposite drainage media on sidewalls (geonet and 6 oz geotextile both sides)	8" HDPE sidewall riser; SDR 11 (no collection pipes)	---	Geo-composite	60-mil HDPE with gravel, 16 oz geotextile and geonet

Table V.K. - Miscellaneous Units

Permit Unit No.	Miscellaneous Unit	N.O.R. No.	Storage, Processing, and/or Disposal	Waste Nos.[1]	Rated Capacity	Dimensions	Unit will manage Ignitable, Reactive, or Incompatible Waste (state all that apply)
008g	Waste Compactor	034	Processing	6 (Mixed LDRW w/o free liquids)	N/A	15.7 ft x 7.7 ft	None of the above.
008h	Geomelt Unit[2]		Processing	6 (Mixed LDRW w/o free liquids)	N/A	10.0 ft x 20.0 ft	Reactive Waste.

[1] from Table IV.B, first column
[2] Note: Geomelt Unit is a temporary unit

Table VI.B.3.b. - Unit Groundwater Detection Monitoring System
(Source: Monitor Well Certification Report, February 10, 2023)

Waste Management Unit/Area Name' **East + West Landfill**					
Well Number(s):	MW-1BR	MW-2A	MW-2BR	MW-3A	MW-3B
Hydrogeologic Unit Monitored	225	225	225	225	225
Type (e.g., point of compliance, background, observation, etc.)	BG	BG	BG	BG	BG
Up or Down Gradient	UG	UG	UG	UG	UG
Casing Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC
Screen Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MLGL or MSL)	3481.47	3482.61	3482.69	3483.93	3483.99
Grade or Surface Elevation (ft, MLGL or MSL)	3478.3	3479.6	3479.95	3480.9	3481.0
Well Depth (ft, Below Grade Surface [BGS])	268.33	257.99	275.00	261.97	277.01
Well Depth (Ft, Below Top of Casing [BTOC])	271.5	261	277.74	265	280
Screen Interval, From(ft, BGS) To(ft, BGS)	251.83 266.83	241.99 256.99	258.00 273.00	245.97 260.97	261.01 276.01
Screen Interval, From(ft, BTOC) To(ft, BTOC)	255 270	245 260	260.74 275.74	249 264	264 279
Facility Coordinates (e.g., lat/long or company coordinates)					
32°26'	47.23"	48.07"	48.12"	48.88"	48.93"
103°03'	45.50"	44.20"	44.09"	42.73"	42.63"

'From Tables in Section V.

06/06/2023 KJ

Table VI.B.3.b. - Unit Groundwater Detection Monitoring System
(Source: Monitor Well Certification Report, February 10, 2023)

Waste Management Unit/Area Name' **East + West Landfill**						
Well Number(s):	MW-4A	MW-4B	DW-32A	DW-32B	SW-32	DW-33A
Hydrogeologic Unit Monitored	225	225	225	225	125	225
Type (e.g., point of compliance, background, observation, etc.)	BG	BG	POC	POC	Observ	POC
Up or Down Gradient	UG	UG	DG	DG	DG	DG
Casing Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC
Screen Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MLGL or MSL)	3485.59	3485.63	3462.41	3462.34	3462.35	3465.88
Grade or Surface Elevation (ft, MLGL or MSL)	3482.5	3482.4	3459.4	3459.3	3459.4	3462.9
Well Depth (ft, Below Grade Surface [BGS])	264.91	280.27	225.49	241.46	125.05	228.02
Well Depth (Ft, Below Top of Casing [BTOC])	268	283.5	228.5	244.5	128	231
Screen Interval, From(ft, BGS) To(ft, BGS)	 248.91 263.91	 264.27 279.27	 209.49 224.49	 226.46 241.46	 114.05 124.05	 212.02 227.02
Screen Interval, From(ft, BTOC) To(ft, BTOC)	 252 267	 267.5 282.5	 212.5 227.5	 229.5 244.5	 117 127	 215 230
Facility Coordinates (e.g., lat/long or company coordinates)						
32°26'	49.81"	49.86"	26.60"	26.56"	26.64"	26.15"
103°03'	41.39"	41.29"	47.52"	47.42"	47.63"	45.84"

'From Tables in Section V.

Table VI.B.3.b. - Unit Groundwater Detection Monitoring System
(Source: Monitor Well Certification Report, February 10, 2023)

Waste Management Unit/Area Name' **East + West Landfill**						
Well Number(s):	DW-33B	SW-33	DW-34A	DW-34B	SW-34	DW-35A
Hydrogeologic Unit Monitored	225	125	225	225	125	225
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ	POC
Up or Down Gradient	DG	DG	DG	DG	DG	DG
Casing Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC
Screen Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MLGL or MSL)	3466.0	3465.71	3469.58	3469.83	3469.48	3468.74
Grade or Surface Elevation (ft, MLGL or MSL)	3463.2	3462.8	3466.6	3466.8	3466.5	3466.3
Well Depth (ft, Below Grade Surface [BGS])	243.2	143.59	231.02	244.97	116.02	231.06
Well Depth (Ft, Below Top of Casing [BTOC])	246	146.5	234	248	119	233.5
Screen Interval, From(ft, BGS) To(ft, BGS)	 227.2 242.2	 132.59 142.59	 215.02 230.02	 228.97 243.97	 105.02 115.02	 215.56 230.56
Screen Interval, From(ft, BTOC) To(ft, BTOC)	 230 245	 135.5 145.5	 218 233	 232 247	 108 118	 218 233
Facility Coordinates (e.g., lat/long or company coordinates)						
32°26'	26.12"	26.19"	25.68"	25.64"	25.72"	25.21"
103°03'	45.74"	45.95"	44.15"	44.04"	44.26"	42.73"

'From Tables in Section V.

Table VI.B.3.b. - Unit Groundwater Detection Monitoring System
(Source: Monitor Well Certification Report, February 10, 2023)

Waste Management Unit/Area Name! **East + West Landfill**						
Well Number(s):	DW-35B	SW-35	DW-36A	DW-36B	SW-36	DW-37A
Hydrogeologic Unit Monitored	225	125	225	225	125	225
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ	POC
Up or Down Gradient	DG	DG	DG	DG	DG	DG
Casing Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	2" PVC
Screen Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC	2" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MLGL or MSL)	3468.84	3468.92	3468.48	3468.82	3468.19	3462.96
Grade or Surface Elevation (ft, MLGL or MSL)	3466.3	3466.4	3465.9	3466.3	3465.6	3460.42
Well Depth (ft, Below Grade Surface [BGS])	246.46	120.98	235.92	250.98	115.91	238.00
Well Depth (Ft, Below Top of Casing [BTOC])	249	123.5	238.5	253.5	118.5	240.45
Screen Interval, From(ft, BGS) To(ft, BGS)	 230.46 245.46	 110.48 120.48	 220.42 235.42	 235.48 250.48	 105.41 115.41	225.00-235.00
Screen Interval, From(ft, BTOC) To(ft, BTOC)	 233 248	 113 123	 223 238	 238 253	 108 118	227.54-237.54
Facility Coordinates (e.g., lat/long or company coordinates)						
32°26'	25.18"	25.24"	24.83"	24.80"	24.86"	22.57"
103°03'	42.62"	42.85"	41.25"	41.14"	41.37"	40.81"

'From Tables in Section V.

Table VI.B.3.b. - Unit Groundwater Detection Monitoring System
(Source: Monitor Well Certification Report, February 10, 2023)

Waste Management Unit/Area Name' **East + West Landfill**						
Well Number(s):	DW-37B	SW-37	DW-38A	DW-38B	SW-38	DW-39A
Hydrogeologic Unit Monitored	225	125	225	225	125	225
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ	POC
Up or Down Gradient	DG	DG	DG	DG	DG	DG
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MLGL or MSL)	3463.90	3464.15	3451.878	No Install	3452.14	3447.84
Grade or Surface Elevation (ft, MLGL or MSL)	3461.29	3461.29	3449.128	No Install	3449.39	3445.09
Well Depth (ft, Below Grade Surface [BGS])	245.00	135.00	210.35	No Install	125.63	209.69
Well Depth (Ft, Below Top of Casing [BTOC])	247.61	137.86	213.10	No Install	128.38	212.44
Screen Interval, From(ft, BGS) To(ft, BGS)	 230.0 245.0	 125 135	 195.35 210.35	No Install	 115.63 125.63	 194.69 209.69
Screen Interval, From(ft, BTOC) To(ft, BTOC)	 232.61 247.61	 127.86 137.86	 198.10 213.10	No Install	 118.38 128.38	 197.44 212.44
Facility Coordinates (e.g., lat/long or company coordinates)				No Install		
32°26'	22.71"	22.79"	19.11"	No Install	19.21"	18.23"
103°03'	40.85"	40.88"	40.30"	No Install	40.33	38.88"

'From Tables in Section V.

Table VI.B.3.b. - Unit Groundwater Detection Monitoring System
(Source: Monitor Well Certification Report, February 10, 2023)

Waste Management Unit/Area Name' **East + West Landfill** / Well Number(s):	DW-39B	SW-39	DW-40A	DW-40B	SW-40	DW-41A
Hydrogeologic Unit Monitored	225	125	225	225	125	225
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ	POC
Up or Down Gradient	DG	DG	DG	DG	DG	DG
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MLGL or MSL)	No Install	3447.95	Proposed	Proposed	Proposed	Proposed
Grade or Surface Elevation (ft, MLGL or MSL)	No Install	3445.20	Proposed	Proposed	Proposed	Proposed
Well Depth (ft, Below Grade Surface [BGS])	No Install	135.70	Proposed	Proposed	Proposed	Proposed
Well Depth (Ft, Below Top of Casing [BTOC])	No Install	138.45	Proposed	Proposed	Proposed	Proposed
Screen Interval, From(ft, BGS) To(ft, BGS)	No Install	128.45 138.45	Proposed	Proposed	Proposed	Proposed
Screen Interval, From(ft, BTOC) To(ft, BTOC)	No Install	125.70 135.70	Proposed	Proposed	Proposed	Proposed
Facility Coordinates (e.g., lat/long or company coordinates)	No Install					
32°26'	No Install	18.23"	Proposed	Proposed	Proposed	Proposed
103°03'	No Install	38.88"	Proposed	Proposed	Proposed	Proposed

'From Tables in Section V.

Table VI.B.3.b. - Unit Groundwater Detection Monitoring System
(Source: Monitor Well Certification Report, February 10, 2023)

Waste Management Unit/Area Name' **East + West Landfill**					
Well Number(s):	DW-41B	SW-41	DW-42A	DW-42B	SW-42
Hydrogeologic Unit Monitored	225	125	225	225	125
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ
Up or Down Gradient	DG	DG	DG	DG	DG
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MLGL or MSL)	Proposed	Proposed	Proposed	Proposed	Proposed
Grade or Surface Elevation (ft, MLGL or MSL)	Proposed	Proposed	Proposed	Proposed	Proposed
Well Depth (ft, Below Grade Surface [BGS])	Proposed	Proposed	Proposed	Proposed	Proposed
Well Depth (Ft, Below Top of Casing [BTOC])	Proposed	Proposed	Proposed	Proposed	Proposed
Screen Interval, From(ft, BGS) To(ft, BGS)	Proposed	Proposed	Proposed	Proposed	Proposed
Screen Interval, From(ft, BTOC) To(ft, BTOC)	Proposed	Proposed	Proposed	Proposed	Proposed
Facility Coordinates (e.g., lat/long or company coordinates)					
32°26'	Proposed	Proposed	Proposed	Proposed	Proposed
103°03'	Proposed	Proposed	Proposed	Proposed	Proposed

'From Tables in Section V.

Table VI.B.3.b. - Unit Groundwater Detection Monitoring System
(Source: Monitor Well Certification Report, February 10, 2023)

Waste Management Unit/Area Name' **Surface Impoundment**					
Well Number(s):	MW-1BR	MW-2A	MW-2BR	MW-3A	MW-3B
Hydrogeologic Unit Monitored	225	225	225	225	225
Type (e.g., point of compliance, background, observation, etc.)	BG	BG	BG	BG	BG
Up or Down Gradient	UG	UG	UG	UG	UG
Casing Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC
Screen Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	4" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MLGL or MSL)	3481.47	3482.61	3482.69	3483.93	3483.99
Grade or Surface Elevation (ft, MLGL or MSL)	3478.3	3479.6	3479.95	3480.9	3481.0
Well Depth (ft, Below Grade Surface [BGS])	271.5	261	275.00	265	280
Well Depth (Ft, Below Top of Casing [BTOC])	273.79	264.43	277.74	267.95	280.01
Screen Interval, From(ft, BGS) To(ft, BGS)	 255 270	 245 260	 258.00 273.00	 249 264	 264 279
Screen Interval, From(ft, BTOC) To(ft, BTOC)	 257.29 272.29	 247.4 262.4	 260.74 275.74	 252.04 267.04	 266.99 281.99
Facility Coordinates (e.g., lat/long or company coordinates)					
32°26'	47.23"	48.07"	48.12"	48.88"	48.93"
103°03'	45.50"	44.20"	44.09"	42.73"	42.63"

'From Tables in Section V.

Table VI.B.3.b. - Unit Groundwater Detection Monitoring System
(Source: Monitor Well Certification Report, February 10, 2023)

Waste Management Unit/Area Name' **Surface Impoundment** Well Number(s):	MW-4A	MW-4B	DW-60A	DW-60B	SW-60	DW-61A
Hydrogeologic Unit Monitored	225	225	225	225	OAG	225
Type (e.g., point of compliance, background, observation, etc.)	BG	BG	POC	POC	Observ	POC
Up or Down Gradient	UG	UG	DG	DG	DG	DG
Casing Diameter and Material	4" PVC	4" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material	4" PVC	4" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MLGL or MSL)	3485.59	3485.63	3444.75	No Install	3444.67	3443.92
Grade or Surface Elevation (ft, MLGL or MSL)	3482.5	3482.4	3441.41	No Install	3441.34	3440.65
Well Depth (ft, Below Grade Surface [BGS])	264.91	280.27	214.51	No Install	33.75	213.62
Well Depth (Ft, Below Top of Casing [BTOC])	268	283.5	217.85	No Install	37.08	216.89
Screen Interval, From(ft, BGS) To(ft, BGS)	248.91 263.91	264.27 279.27	198.91 213.91	No Install	23.15 33.15	198.02 213.02
Screen Interval, From(ft, BTOC) To(ft, BTOC)	252 267	267.5 282.5	202.25 217.25	No Install	26.48 36.48	201.29 216.29
Facility Coordinates (e.g., lat/long or company coordinates)						
32°26'	49.81"	49.86"	31"	No Install	31"	30"
103°03'	41.39"	41.29"	44"	No Install	43"	41"

'From Tables in Section V.

Table VI.B.3.b. - Unit Groundwater Detection Monitoring System
(Source: Monitor Well Certification Report, February 10, 2023)

Waste Management Unit/Area Name' **Surface Impoundment**						
Well Number(s):	DW-61B	SW-61	DW-62A	DW-62B	SW-62	DW-63A
Hydrogeologic Unit Monitored	225	OAG	225	225	OAG	225
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ	POC
Up or Down Gradient	DG	DG	DG	DG	DG	DG
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MLGL or MSL)	No Install	3443.69	3442.38	3442.57	3442.34	3443.39
Grade or Surface Elevation (ft, MLGL or MSL)	No Install	3440.57	3439.70	3439.69	3439.52	3440.04
Well Depth (ft, Below Grade Surface [BGS])	No Install	32.06	212.7	202.47	32.5	220.7
Well Depth (Ft, Below Top of Casing [BTOC])	No Install	35.18	215.38	205.35	35.32	224.05
Screen Interval, From(ft, BGS) To(ft, BGS)	No Install	21.46 31.46	197.1 212.1	186.87 201.87	21.9 31.9	205.1 220.1
Screen Interval, From(ft, BTOC) To(ft, BTOC)	No Install	24.58 34.58	199.78 214.78	189.75 204.75	24.72 34.72	208.45 223.45
Facility Coordinates (e.g., lat/long or company coordinates)						
32°26'	No Install	28"	28"	26"	28"	27"
103°03'	No Install	39"	39"	39"	39"	30"

'From Tables in Section V.

Table VI.B.3.b. - Unit Groundwater Detection Monitoring System
(Source: Monitor Well Certification Report, February 10, 2023)

Waste Management Unit/Area Name'

Surface Impoundment

Well Number(s):	DW-63B	SW-63	DW-64A	DW-64B	SW-64
Hydrogeologic Unit Monitored	225	OAG	225	225	OAG
Type (e.g., point of compliance, background, observation, etc.)	POC	Observ	POC	POC	Observ
Up or Down Gradient	DG	DG	DG	DG	DG
Casing Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Diameter and Material	2" PVC	2" PVC	2" PVC	2" PVC	2" PVC
Screen Slot Size (in.)	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (ft, MLGL or MSL)	No Install	3443.25	3442.52	No Install	3442.29
Grade or Surface Elevation (ft, MLGL or MSL)	No Install	3440.04	3439.03	No Install	3438.83
Well Depth (ft, Below Grade Surface [BGS])	No Install	33.72	253.99	No Install	32.29
Well Depth (Ft, Below Top of Casing [BTOC])	No Install	36.93	257.48	No Install	35.75
Screen Interval, From(ft, BGS) To(ft, BGS)	No Install	23.12 33.12	238.39 253.59	No Install	21.69 31.69
Screen Interval, From(ft, BTOC) To(ft, BTOC)	No Install	26.33 36.33	241.88 256.88	No Install	25.15 35.15
Facility Coordinates (e.g., lat/long or company coordinates)					
32°26'	No Install	28"	27"	No Install	27"
103°03'	No Install	36"	36"	No Install	32"

'From Tables in Section V.

Table VI.B.3.b. - Unit Groundwater Detection Monitoring System (Source: Monitor Well Certification Report, February 10, 2023)

Waste Management Unit/Area Name' **Surface Impoundment**						
Well Number(s):	DW-65A	DW-65B	SW-65			
Hydrogeologic Unit Monitored	225	225	OAG			
Type (e.g., point of compliance, background, observation, etc.)	POC	POC	Observ			
Up or Down Gradient	DG	DG	DG			
Casing Diameter and Material	2" PVC	2" PVC	2" PVC			
Screen Diameter and Material	2" PVC	2" PVC	2" PVC			
Screen Slot Size (in.)	0.010"	0.010"	0.010"			
Top of Casing Elevation (ft, MLGL or MSL)	3443.22	No Install	3443.42			
Grade or Surface Elevation (ft, MLGL or MSL)	3440.08	No Install	3440.02			
Well Depth (ft, Below Grade Surface [BGS])	252.25	No Install	29.85			
Well Depth (Ft, Below Top of Casing [BTOC])	255.39	No Install	33.25			
Screen Interval, From(ft, BGS) To(ft, BGS)	236. 65 251.65	No Install	19.25 29.25			
Screen Interval, From(ft, BTOC) To(ft, BTOC)	239. 79 254.79	No Install	22.65			
Facility Coordinates (e.g., lat/long or company coordinates)						
32°26'	27"	No Install	27"			
103°03'	33"	No Install	29"			

'From Tables in Section V.

TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS

Unit/Waste Management Area- **East + West Landfill**
Well No(s).[3] **POC (DW) and Supplemental (SW) Wells**

DW-32A/B, SW-32, DW-33A/B, SW-33, DW-34A/B, SW-34, DW-35A/B, SW-35, DW-36A/B, SW-36, DW-37A/B, SW-37 (existing);, DW-38A/B, SW-38, DW-39A/B, SW-39, DW-40A/B, SW40, DW-41A/B, SW-41, DW-42A/B, SW-42 (future)

Parameter	Sampling Frequency	Analytical Method	Method Detection Limit (MDL) or Method Quantification Limit (MQL) Value (units), MDL or MQL[2]	Concentration Limit [1]
Volatile Organic Priority Pollutant Monitoring Parameters				
Acetone	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Benzene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Bromoform	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Carbon Disulfide	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Carbon Tetrachloride	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Chlorobenzene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Chlorodibromomethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Chloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Chloroform	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Dichlorobromomethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
1,1 -Dichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
1,2 - Dichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
1,1-Dichloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l

1 The concentration limit is the basis for determining whether a release has occurred from the waste management unit/area.
2 a. Enter the laboratory expected *Method Detection Limit* if determination of *Statistically Significant Increase (*SSI) occurrence is based on detection of the presence of the constituent of concern in the sample.
2 b. Enter the laboratory expected Method Quantification Limit if determination of SSI is based on statistical analysis of detection monitoring data or direct comparison to a limit value.
This should be based on the laboratory's minimum expected level of performance. Please designate which type of limit has been entered for each constituent, with its values and units.
3 Groundwater samples from the upgradient monitor wells (1BR, 2A, 2BR, 3A, 3B, 4A, 4B) will be analyzed for only the metal monitoring parameters shown on Page 3.

TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS

Unit/Waste Management Area- **East + West Landfill**
Well No(s).[3] **POC (DW) and Supplemental (SW) Wells**
DW-32A/B, SW-32, DW-33A/B, SW-33, DW-34A/B, SW-34, DW-35A/B, SW-35, DW-36A/B, SW-36, DW-37A/B, SW-37 (existing);, DW-38A/B, SW-38, DW-39A/B, SW-39, DW-40A/B, SW40, DW-41A/B, SW-41, DW-42A/B, SW-42 (future)

Parameter	Sampling Frequency	Analytical Method	Method Detection Limit (MDL) or Method Quantification Limit (MQL) Value (units), MDL or MQL[2]	Concentration Limit [1]
Volatile Organic Priority Pollutant Monitoring Parameters (concluded)				
1,2-Dichloropropane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
cis-1,3-Dichloropropylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	2 ug/l	2 ug/l
trans-1,3-Dichloropropylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	2 ug/l	2 ug/l
Ethylbenzene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Methyl Bromide	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Methyl Chloride	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
1,1,2,2-Tetrachloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Tetrachloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Toluene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
1,2-trans-Dichloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	2 ug/l	2 ug/l
1,1,1,-Trichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
1,1,2-Trichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Trichloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Vinyl Chloride	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l

1 The concentration limit is the basis for determining whether a release has occurred from the waste management unit/area.
2 a. Enter the laboratory expected *Method Detection Limit* if determination of *Statistically Significant Increase (*SSI) occurrence is based on detection of the presence of the constituent of concern in the sample.
2 b. Enter the laboratory expected Method Quantification Limit if determination of SSI is based on statistical analysis of detection monitoring data or direct comparison to a limit value.
This should be based on the laboratory's minimum expected level of performance. Please designate which type of limit has been entered for each constituent, with its values and units.
3 Groundwater samples from the upgradient monitor wells (1BR, 2A, 2BR, 3A, 3B, 4A, 4B) will be analyzed for only the metal monitoring parameters shown on Page 3

TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS

Unit/Waste Management Area- **East + West Landfill**
Well No(s).[3] **POC (DW) and Supplemental (SW) Wells**
DW-32A/B, SW-32, DW-33A/B, SW-33, DW-34A/B, SW-34, DW-35A/B, SW-35, DW-36A/B, SW-36, DW-37A/B, SW-37 (existing);, DW-38A/B, SW-38, DW-39A/B, SW-39, DW-40A/B, SW40, DW-41A/B, SW-41, DW-42A/B, SW-42 (future)

Parameter	Sampling Frequency	Analytical Method	Method Detection Limit (MDL) or Method Quantification Limit (MQL) Value (units), MDL or MQL[2]	Concentration Limit [1]
Semi-Volatile Monitoring Parameters				
Phenol	Staggered Semi-Annual	SW-846 8270/EPA Method 625	10 ug/l	10 ug/l
1,4 Dioxane	Staggered Semi-Annual	SW-846 8270/EPA Method 625	10 ug/l	10 ug/l
Metal Monitoring Parameters[2]				
Arsenic	Staggered Semi-Annual	SW-846 6010/EPA Method 200.7	0.005 mg/l	NA
Nickel	Staggered Semi-Annual	SW-846 6010/EPA Method 200.7	0.002 mg/l	NA
Cadmium	Staggered Semi-Annual	SW-846 6010/EPA Method 200.7	0.001 mg/l	NA
Selenium	Staggered Semi-Annual	SW-846 6010/EPA Method 200.7	0.005 mg/l	NA

1 The concentration limit is the basis for determining whether a release has occurred from the waste management unit/area.
2 a. Enter the laboratory expected *Method Detection Limit* if determination of *Statistically Significant Increase (*SSI) occurrence is based on detection of the presence of the constituent of concern in the sample.
2 b. Enter the laboratory expected Method Quantification Limit if determination of SSI is based on statistical analysis of detection monitoring data or direct comparison to a limit value.
This should be based on the laboratory's minimum expected level of performance. Please designate which type of limit has been entered for each constituent, with its values and units.
3 Groundwater samples from the upgradient monitor wells (1BR, 2A, 2BR, 3A, 3B, 4A, 4B) will be analyzed for only the metal monitoring parameters shown on Page 3.

TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS

Unit/Waste Management Area- **Surface Impoundment (FWF Contact Water Evaporation Pond)**
Well No(s).[3] **POC (DW) and Supplemental (SW) Wells**
DW-60A/B, DW-61A/B, DW-62A/B, DW-63A/B, DW-64A/B, DW-65A/B; Supplemental Wells -SW-6o, SW-61, SW-62, SW-63, SW-64, SW-65

Parameter	Sampling Frequency	Analytical Method	Method Detection Limit (MDL) or Method Quantification Limit (MQL) Value (units), MDL or MQL[2]	Concentration Limit [1]
Volatile Organic Priority Pollutant Monitoring Parameters				
Acetone	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	100 ug/l
Benzene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	5 ug/l
Bromoform	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	5 ug/l
Carbon Disulfide	Staggered Semi-Annual	SW-846 8260/EPA Method 624	5 ug/l	5 ug/l
Carbon Tetrachloride	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	5 ug/l
Chlorobenzene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	5 ug/l
Chlorodibromomethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	5 ug/l
Chloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	10 ug/l
Chloroform	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	5 ug/l
Dichlorobromomethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	5 ug/l
1,1 -Dichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	5 ug/l
1,2 - Dichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	5 ug/l
1,1-Dichloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	5 ug/l
1,2-Dichloropropane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	5 ug/l

1 The concentration limit is the basis for determining whether a release has occurred from the waste management unit/area.
2 a. Enter the laboratory expected *Method Detection Limit* if determination of *Statistically Significant Increase (*SSI) occurrence is based on detection of the presence of the constituent of concern in the sample.
2 b. Enter the laboratory expected Method Quantification Limit if determination of SSI is based on statistical analysis of detection monitoring data or direct comparison to a limit value.
This should be based on the laboratory's minimum expected level of performance. Please designate which type of limit has been entered for each constituent, with its values and units.
3 Groundwater samples from the upgradient monitor wells (1BR, 2A, 2BR, 3A, 3B, 4A, 4B) will be analyzed for only the metal monitoring parameters shown on Page 3.

TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS

Unit/Waste Management Area- **Surface Impoundment (FWF Contact Water Evaporation Pond)**
Well No(s).[3] **POC (DW) and Supplemental (SW) Wells**
DW-60A/B, DW-61A/B, DW-62A/B, DW-63A/B, DW-64A/B, DW-65A/B; Supplemental Wells -SW-6o, SW-61, SW-62, SW-63, SW-64, SW-65

Parameter	Sampling Frequency	Analytical Method	Method Detection Limit (MDL) or Method Quantification Limit (MQL) Value (units), MDL or MQL[2]	Concentration Limit [1]
Volatile Organic Priority Pollutant Monitoring Parameters (concluded)				
cis-1,3-Dichloropropylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	2 ug/l	2 ug/l
trans-1,3-Dichloropropylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	2 ug/l	2 ug/l
Ethylbenzene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Methyl Bromide	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Methyl Chloride	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
1,1,2,2-Tetrachloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Tetrachloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Toluene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
1,2-trans-Dichloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	2 ug/l	2 ug/l
1,1,1,-Trichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
1,1,2-Trichloroethane	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Trichloroethylene	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l
Vinyl Chloride	Staggered Semi-Annual	SW-846 8260/EPA Method 624	1 ug/l	1 ug/l

1 The concentration limit is the basis for determining whether a release has occurred from the waste management unit/area.
2 a. Enter the laboratory expected *Method Detection Limit* if determination of *Statistically Significant Increase (*SSI) occurrence is based on detection of the presence of the constituent of concern in the sample.
2 b. Enter the laboratory expected Method Quantification Limit if determination of SSI is based on statistical analysis of detection monitoring data or direct comparison to a limit value.
This should be based on the laboratory's minimum expected level of performance. Please designate which type of limit has been entered for each constituent, with its values and units.
3 Groundwater samples from the upgradient monitor wells (1BR, 2A, 2BR, 3A, 3B, 4A, 4B) will be analyzed for only the metal monitoring parameters shown on Page 3.

TABLE VI.B.3.c - GROUNDWATER DETECTION MONITORING PARAMETERS

Unit/Waste Management Area- **Surface Impoundment (FWF Contact Water Evaporation Pond)**
Well No(s).[3] **POC (DW) and Supplemental (SW) Wells**
DW-60A/B, DW-61A/B, DW-62A/B, DW-63A/B, DW-64A/B, DW-65A/B

Parameter	Sampling Frequency	Analytical Method	Method Detection Limit (MDL) or Method Quantification Limit (MQL) Value (units), MDL or MQL[2]	Concentration Limit [1]
Semi-Volatile Monitoring Parameters				
Phenol	Staggered Semi-Annual	SW-846 8270/EPA Method 625	10 ug/l	10 ug/l
1,4 Dioxane	Staggered Semi-Annual	SW-846 8270/EPA Method 625	10 ug/l	10 ug/l
Metal Monitoring Parameters[3]				
Arsenic	Staggered Semi-Annual	SW-846 6010/EPA Method 200.7	0.005 mg/l	NA
Nickel	Staggered Semi-Annual	SW-846 6010/EPA Method 200.7	0.002 mg/l	NA
Cadmium	Staggered Semi-Annual	SW-846 6010/EPA Method 200.7	0.001 mg/l	NA
Selenium	Staggered Semi-Annual	SW-846 6010/EPA Method 200.7	0.005 mg/l	NA

1 The concentration limit is the basis for determining whether a release has occurred from the waste management unit/area.
2 a. Enter the laboratory expected *Method Detection Limit* if determination of *Statistically Significant Increase (*SSI) occurrence is based on detection of the presence of the constituent of concern in the sample.
2 b. Enter the laboratory expected Method Quantification Limit if determination of SSI is based on statistical analysis of detection monitoring data or direct comparison to a limit value.
This should be based on the laboratory's minimum expected level of performance. Please designate which type of limit has been entered for each constituent, with its values and units.
3 Groundwater samples from the upgradient monitor wells (1BR, 2A, 2BR, 3A, 3B, 4A, 4B) will be analyzed for only the metal monitoring parameters shown on Page 3.

Table VII.E.1 – PERMITTED UNIT CLOSURE COST SUMMARY

Existing Unit Closure Cost Estimate	
Unit	Cost (2018)**
East+West Landfill	$8,752,550
Container Storage Building[2,3]	$219,809
Bin Storage Unit (BSU-1)[2,3]	$316,451
Bin Storage Unit (BSU-2)[2]	$222,936
Stabilization Building: Mixing Tank MT-1	$53,073
Stabilization Building: Mixing Tank MT-2	$53,073
Stabilization Building: Mixing Tank MT-3[2]	$10,566
Stabilization Building: North Container Storage Area[2]	$3,874
Stabilization Building: South Container Storage Area[2]	$3,970
Stabilization Building: Waste Compactor	$9,927
Surface Impoundment (FWF Contact Water Evaporation Pond)	$6,642,030
Total Existing Unit Closure Cost Estimate	$16,288,260 (2018)[1]
Proposed Unit Closure Cost Estimate	
Unit	Cost (2012)
Stabilization Building: Mixing Tank MT-4**	$10,566
Total Proposed Unit Closure Cost Estimate	$10,566
Total Existing and Proposed Unit Closure Cost Estimate	$16,298,826(2018)[1]

[1]As units are added or deleted from these tables through future permit amendments or modifications, the remaining itemized unit costs should be updated for inflation when re-calculation the revised total cost in current dollars.

[2] Financial assurance for the permanent disposition of all aspects of low level radioactive mixed waste (LLMW) stored or processed at this unit is required under TCEQ Radioactive Materials License R04100. Compliance with such financial assurance requirements of RML R04100 satisfies the financial assurance requirements of this permit for LLMW.

3 The Elemental Mercury stored in the waste management units are not subject to financial assurance requirements.

TABLE VII.E.2. - PERMITTED UNIT POST-CLOSURE COST SUMMARY

Existing Unit Post-Closure Cost Estimate	
Unit	Cost*
East + West Landfill (Permit Unit No. 2)	$1,570,254(2018)

Total Existing Unit Post-Closure Cost Estimate	$1,570,254(2018)[1]

Proposed Unit Post-Closure Cost Estimate	
Unit	Cost

[1]As units are added or deleted from these tables through future permit amendments or modifications, the remaining itemized unit costs should be updated for inflation when re-calculating the revised total cost in current dollars.

Table VII.G. - Post-Closure Period

Unit Name	Date Certified Closed	Permitted Post Closure Period (Yrs)	Earliest Date Post Closure Ends (See Note 1)
East + West Landfill (Permit Unit No. 2)	To be Determined	30 years	To be Determined

Note 1 – Post-Closure Care shall continue beyond the specified date until the Executive Director has approved the permittee's request to reduce or terminate the post-closure period, consistent with 40 CFR Section 264.117 and 30 TAC Section 335.152(a)(5).

18-0406 DE Pages:23 Andrews County, TX

WHEN RECORDED RETURN TO:

Aileen Hooks, Esq.
Baker Botts L.L.P.
98 San Jacinto Blvd., Suite 1500
Austin, Texas 78701

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

SPECIAL WARRANTY DEED

STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS
COUNTY OF ANDREWS §

THAT, Andrews County, Texas, a local government under the laws of the State of Texas ("**Grantor**"), whose address is County and District Attorney, 121 NW Ave. A, Andrews, Texas 79714, for and in consideration of the sum of Ten and no/100 Dollars ($10.00) and other good and valuable consideration, the receipt and sufficiency of which consideration are hereby acknowledged, has GRANTED, SOLD AND CONVEYED and by these presents does GRANT, SELL and CONVEY unto Waste Control Specialists LLC, a Delaware limited liability company, or its corporate successor-in-interest on the effective date of this Special Warranty Deed ("**Grantee**"), whose address is Three Lincoln Center, 5430 LBJ Freeway, Suite 1700, Dallas, Texas 75240, the following described property:

Being those certain parcels of land located in Andrews County, Texas, and being more particularly described on **Exhibit "A"** attached hereto and made a part hereof by reference for all purposes, together with all of Grantor's right, title and interest, if any, in and to all easements, rights-of-way, appurtenances and other rights and benefits associated with such parcel(s) of land together with all improvements, fixtures and other rights and appurtenances thereto in any wise belonging to Grantor (the "**Property**"), subject, however, to the exceptions to title (the "**Permitted Exceptions**") more particularly set forth on **Exhibit "B"** attached hereto and fully made a part hereof by reference for all purposes.

TO HAVE AND TO HOLD the above-described Property, subject to the Permitted Exceptions, together with all and singular the rights and appurtenances thereto in any wise belonging to Grantor, unto the said Grantee, its successors and assigns FOREVER, and Grantor does hereby bind itself and its successors and assigns to WARRANT AND

FOREVER DEFEND all and singular the Property unto the said Grantee, its successors and assigns, against every person whomsoever, lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise.

Grantor is executing and delivering this deed to Grantee pursuant to the Reconveyance Rights defined and described in that certain Sale and Purchase Agreement dated as of November 8, 2010 between Grantor and Grantee. Effective as of the date hereof, that certain Lease Agreement dated December 8, 2010 between Grantor, as landlord, and Grantee, as tenant, evidenced by that certain Memorandum of Lease recorded as Instrument # 10-5025 at Volume 986, Page 717 of the Real Property Records of Andrews County, Texas is hereby terminated and of no further force or effect.

Grantor hereby further relinquishes any and all other rights granted to it pursuant to Special Warranty Deed dated December 8, 2010, pursuant to which Grantee conveyed the Property to Grantor, which Special Warranty Deed is recorded as Instrument #10-5024 at Volume 986, Page 702 of the Real Property Records of Andrews County, Texas.

[signature page follows]

EXECUTED on December 20, 2017 to be effective as of the 26 day of January, 2018.

GRANTOR:

ANDREWS COUNTY, TEXAS

By: _____
Richard H. Dolgener
County Judge

STATE OF TEXAS §
§
COUNTY OF ANDREWS §

This instrument was acknowledged before me on December 202017, by Richard H. Dolgener, a County Judge of ANDREWS COUNTY, TEXAS, on behalf of said county.

_____
NOTARY PUBLIC

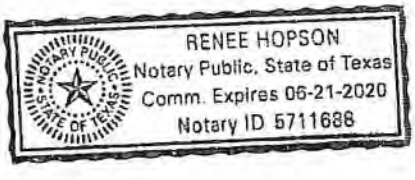


Exhibit A

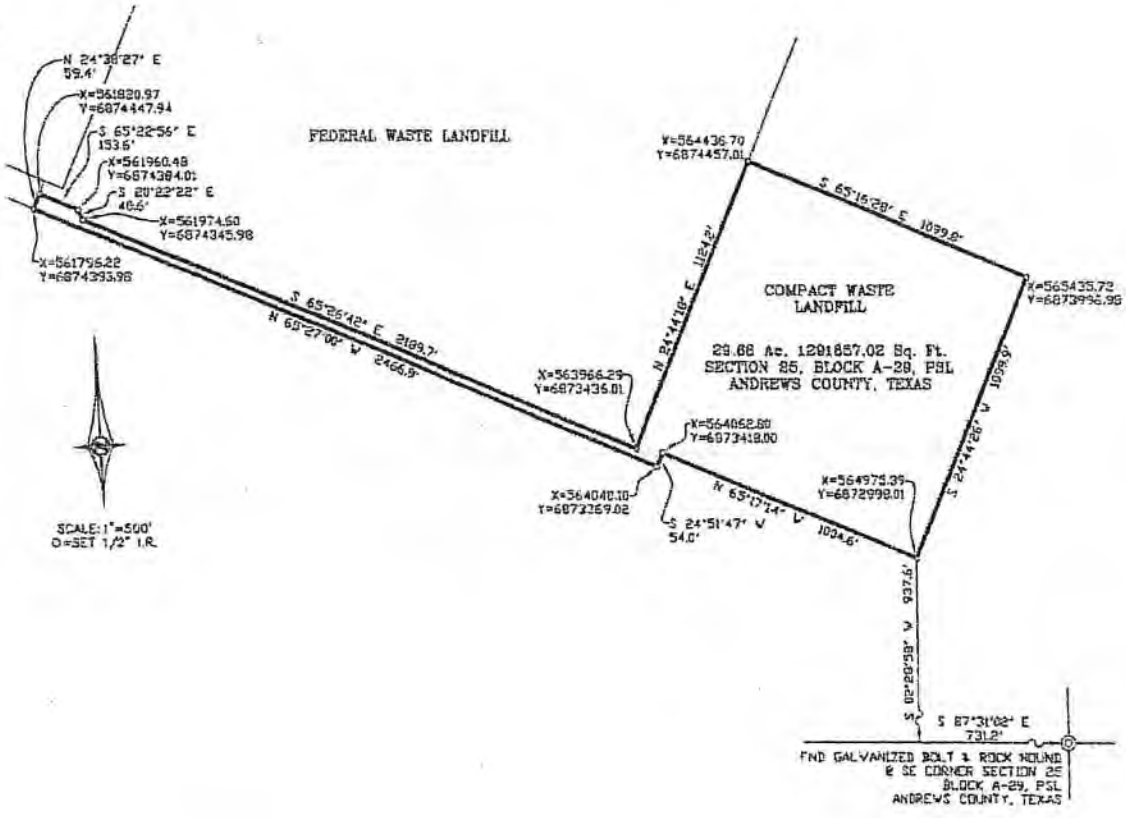
Legal Description of Property

All of Sections 14, 15, 16, 17, 18, 19, 22, 23, 24, 25, Block A-29, Public School Land Survey, Andrews County, Texas, and all of Sections 2, 3, 4, 5, 6, 7, 8, 9, 12, 13, 14, 15, Block A-39, Public School Land Survey, Andrews County, Texas

Save and except the property described on Exhibit A-1 attached hereto.

EXHIBIT A-1

[See Attached Eleven (11) Pages]



FIELD NOTE DESCRIPTION OF A 29.66 ACRE TRACT OF LAND OUT OF SECTION 25, BLOCK A-29, PUBLIC SCHOOL LAND, ANDREWS COUNTY, TEXAS:

BEGINNING at a ½-inch iron rod set for the southeast corner of this tract, from which point a galvanized bolt and rock mound found for the Patented Southeast corner of Section 25, Block A-29, Public School Land, Andrews County, Texas, as filed of record in Volume 3, Page 272, Patent Records, Andrews County, Texas, bears S 02° 28' 58" W, 937.6 feet and S 87° 31' 02" E, 731.2 feet;

THENCE N 65° 17' 14" W, 1004.6 feet to a ½-inch iron rod set for a corner of this tract;

THENCE S 24° 51' 47" W, 54.0 feet to a ½-inch iron rod set for a corner of this tract;

THENCE N 65° 27' 08" W, 2466.9 feet to a ½-inch iron rod set for the southwest corner of this tract;

THENCE N 24° 38' 27" E, 59.4 feet to a ½-inch iron rod set for the most westerly northwest corner of this tract;

THENCE S 65° 22' 56" E, 153.6 feet to a ½-inch iron rod set for a corner of this tract;

THENCE S 20° 22' 22" E, 40.6 feet to a ½-inch iron rod set for a corner of this tract;

THENCE S 65° 26' 42" E, 2189.7 feet to a ½-inch iron rod set for a corner of this tract;

THENCE N 24° 44' 18" E, 1124.2 feet to a ½-inch iron rod set for the most northerly northwest corner of this tract;

THENCE S 65° 16' 28" E, 1099.8 feet to a ½-inch iron rod set for the northeast corner of this tract;

THENCE S 24° 44' 26" W, 1099.9 feet to the place of beginning and containing 1291857.02 square feet or 29.66 acres of land.

Note: Coordinates are Texas State Plane NAD 83 Texas North Central Zone in US Survey Feet, with a Scale Factor of 0.99996852. Bearings are Grid and have a Theta Angle of -02° 29' 13".

Dated: March 13, 2007

STARK SURVEYING, LLC

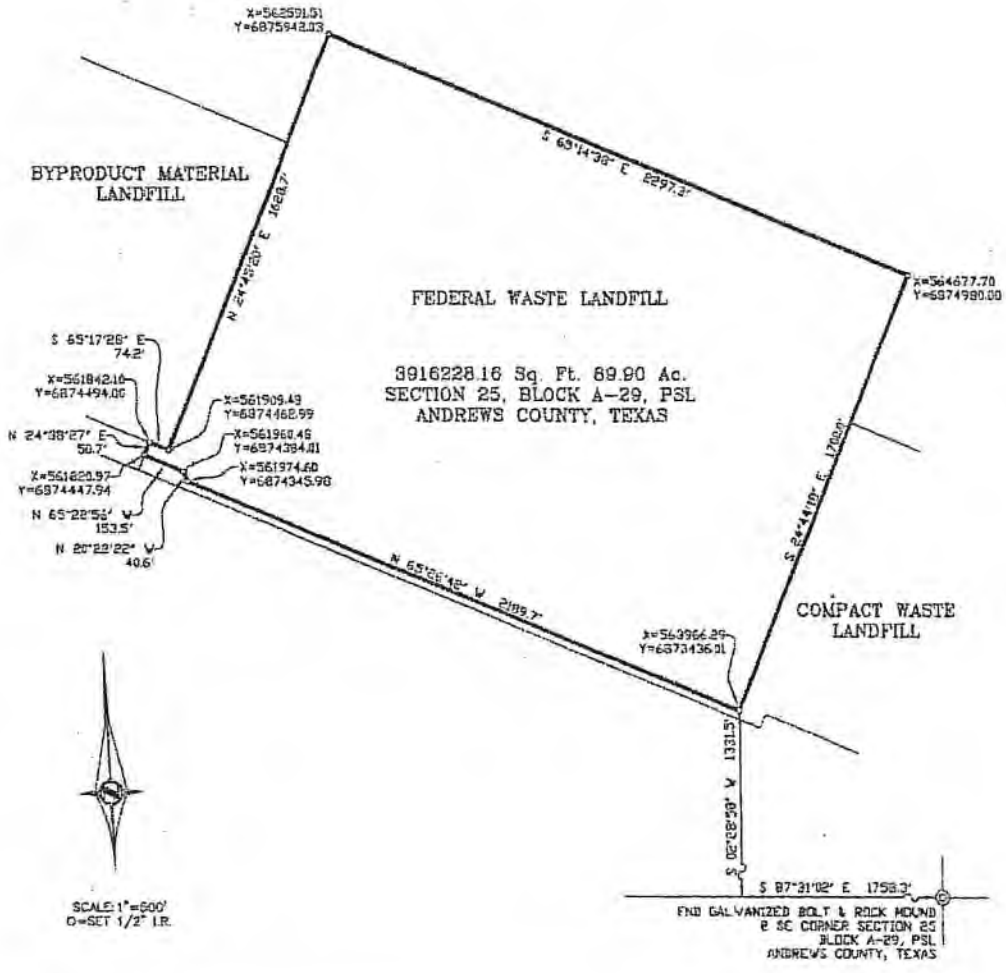
By:

SS Job No. 80808
Cook-Joyce, Inc.

Jimmie Robert Stark
Registered Professional Land Surveyor

STARK SURVEYING, LLC
3300 N. "A" STREET, BLDG. 1-200
MIDLAND, TEXAS

Exhibit A-1



FIELD NOTE DESCRIPTION OF AN 89.90 ACRE TRACT OF LAND OUT OF SECTION 25, BLOCK A-29, PUBLIC SCHOOL LAND, ANDREWS COUNTY, TEXAS:

BEGINNING at a ½-inch iron rod set for the southeast corner of this tract, from which point a galvanized bolt and rock mound found for the Patented Southeast corner of Section 25, Block A-29, Public School Land, Andrews County, Texas, as filed of record in Volume 3, Page 272, Patent Records, Andrews County, Texas, bears S 02° 28' 58" W, 1331.5 feet and S 87° 31' 02" E, 1758.3 feet;

THENCE N 65° 26' 42" W, 2189.7 feet to a ½-inch iron rod set for a corner of this tract;
THENCE N 20° 22' 22" W, 40.6 feet to a ½-inch iron rod set for a corner of this tract;
THENCE N 65° 22' 56" W, 153.5 feet to a ½-inch iron rod set for the southwest corner of this tract;
THENCE N 24° 38' 27" E, 50.7 feet to a ½-inch iron rod set for a corner of this tract;
THENCE S 65° 17' 28" E, 74.2 feet to a ½-inch iron rod set for a corner of this tract;
THENCE N 24° 45' 20" E, 1628.7 feet to a ½-inch iron rod set for the northwest corner of this tract;
THENCE S 65° 14' 38" E, 2297.3 feet to a ½-inch iron rod set for the northeast corner of this tract;
THENCE S 24° 44' 18" W, 1700.0 feet to the place of beginning and containing 3916228.16 square feet or 89.90 acres of land.

Note: Coordinates are Texas State Plane NAD 83 Texas North Central Zone in US Survey Feet, with a Scale Factor of 0.99996852. Bearings are Grid and have a Theta Angle of -02° 29' 13".

Dated: March 13, 2007

STARK SURVEYING, LLC

By:

SS Job No. 80808
Cook-Joyce, Inc.

Jimmie Robert Stark
Registered Professional Land Surveyor

STARK SURVEYING, LLC
3300 N. "A" STREET, BLDG. 1-200
MIDLAND, TEXAS

Exhibit A-1

PROPERTY DESCRIPTION OF 40.00 ACRE TRACT:

A 40.00 ± ACRE TRACT OF LAND OUT OF SECTION 5, BLOCK A-39, PUBLIC SCHOOL LAND SURVEY, ANDREWS COUNTY, TEXAS, FURTHER BEING OUT OF A TRACT OF LAND BEING DESCRIBED IN THAT CERTAIN INSTRUMENT RECORDED IN VOLUME 986, PAGE 702, AS FILED IN THE OFFICE OF THE COUNTY CLERK OF ANDREWS COUNTY, TEXAS SAID 40.00± ACRE TRACT OF LAND HAVING BEEN SURVEYED ON THE GROUND BY FURMAN LAND SURVEYORS, INC. JULY 24, 2014 AND BEING DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

(BEARINGS AND DISTANCES ARE GRID UTM COORDINATE SYSTEM-ZONE 13N, NAD (1983) USING GPS RELATIVE POSITIONING TECHNIQUES BASED ON AN OPUS ON JULY 8, 2014. COMBINED SCALE FACTOR = 0.99984888)

COMMENCING AT A GALVANIZED BOLT IN A STONE MOUND FOUND FOR THE NORTHEAST CORNER OF SAID SECTION 5, FROM WHENCE A 1/2" IRON ROD WITH CAP STAMPED "FURMAN RPLS" SET FOR THE SOUTHEAST CORNER OF SAID SECTION 5 BEARS, S. 00° 53' 07" E. (BASE LINE) 5290.60 FEET.

THENCE S. 00° 53' 07" E. 2982.10 FEET ALONG THE EAST LINE OF SAID SECTION 5 TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF RM 87, BEING DESCRIBED IN THAT CERTAIN INSTRUMENT RECORDED IN VOLUME 47, PAGE 77, AS FILED IN THE OFFICE OF THE COUNTY CLERK OF ANDREWS COUNTY, TEXAS;

THENCE S. 89° 00' 57" W. 3485.81 FEET ALONG SAID SOUTH RIGHT-OF-WAY LINE TO A 1/2" IRON ROD WITH CAP STAMPED "FURMAN RPLS" SET FOR THE NORTHEAST AND BEGINNING CORNER OF THIS TRACT OF LAND;

THENCE S. 01° 00' 54" E. 1319.90 FEET TO A 1/2" IRON ROD WITH CAP STAMPED "FURMAN RPLS" SET FOR THE SOUTHEAST AND BEGINNING CORNER OF THIS TRACT OF LAND;

THENCE S. 89° 00' 57" W. 1319.90 FEET TO A 1/2" IRON ROD WITH CAP STAMPED "FURMAN RPLS" SET FOR THE SOUTHWEST CORNER OF THIS TRACT OF LAND, SAME BEING A POINT ON THE EAST LINE OF A SOUTHWESTERN PUBLIC SERVICE COMPANY EASEMENT BEING DESCRIBED IN THAT CERTAIN INSTRUMENT RECORDED IN VOLUME 638 PAGE 449 AS FILED IN THE OFFICE OF THE COUNTY CLERK OF ANDREWS COUNTY, TEXAS;

THENCE N. 01° 00' 54" W. 1319.90 FEET ALONG THE EAST LINE OF SAID EASEMENT TO A 1/2" IRON ROD WITH CAP STAMPED "FURMAN RPLS" SET FOR THE NORTHWEST CORNER OF THIS TRACT OF LAND;

THENCE N. 89° 00' 57" E. 1319.90 FEET ALONG SAID SOUTH RIGHT-OF-WAY LINE TO THE POINT OF BEGINNING, CONTAINING 40.00 ACRES MORE OR LESS.

PROPERTY DESCRIPTION 1.76 ACRE TRACT:

A PARCEL OUT OF SECTION 5, BLOCK A-39 PUBLIC SCHOOL LAND SURVEY, ANDREWS COUNTY, TEXAS FURTHER BEING OUT OF A TRACT OF LAND DESCRIBED IN THAT CERTAIN INSTRUMENT RECORDED IN VOLUME 986 PAGE 702, AS FILED IN THE OFFICE OF THE COUNTY CLERK OF ANDREWS COUNTY, TEXAS, SAID PARCEL HAVING BEEN SURVEYED ON THE GROUND FOR AN EASEMENT BY FURMAN LAND SURVEYORS, INC. OCTOBER 4, 2014 AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

(BEARINGS AND DISTANCES ARE GRID UTM COORDINATE SYSTEM-ZONE 13N, NAD (1983) USING GPS RELATIVE POSITIONING TECHNIQUES BASED ON AN OPUS ON JULY 8, 2014. COMBINED SCALE

FACTOR = 0.99984888)

COMMENCING AT GALVANIZED BOLT IN A STONE MOUND FOUND AND ACCEPTED FOR THE NORTHEAST CORNER OF SAID SECTION 5, FROM WHENCE A 1/2 INCH IRON ROD WITH CAP STAMPED "PS 15701" FOUND FOR THE SOUTHEAST CORNER OF SAID SECTION 5 BEARS S. 00° 53' 07" E. (BASE LINE) 5290.60 FEET;

THENCE S. 00° 53' 07" E. 2982.10 FEET ALONG THE EAST LINE OF SAID SECTION 5, TO A POINT IN THE SOUTHERLY RIGHT-OF-WAY LINE OF RM 87 AS MONUMENTED ON THE GROUND, AND BEING DESCRIBED IN THAT CERTAIN INSTRUMENT RECORDED IN VOLUME 47 PAGE 77 AS FILED IN THE OFFICE OF THE COUNTY CLERK OF ANDREWS COUNTY, TEXAS;

THENCE S. 89° 00' 57" W. 4271.21 FEET ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE TO A POINT BEING THE BEGINNING CORNER OF THIS EASEMENT, SAME BEING A POINT IN THE NORTHERLY LINE OF A 40.00± ACRE SUBSTATION PREVIOUSLY SURVEYED;

THENCE S. 89° 00' 56" W. 69.99 FEET ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE, AND SAID SUBSTATION LINE TO A POINT;

THENCE N. 00° 59' 04" W. 360.87 FEET TO A POINT;

THENCE S. 88° 52' 08" W. 665.87 FEET TO A POINT ON THE TEXAS-NEW MEXICO STATE LINE AS MONUMENTED ON THE GROUND;

THENCE N. 01° 01' 03" W. 69.99 FEET ALONG SAID STATE LINE TO A POINT;

THENCE N. 88° 52' 08" E. 735.91 FEET TO A POINT;

THENCE S. 00° 59' 04" E. 431.04 FEET TO THE POINT OF BEGINNING.

TRACT CONTAINS 1.76 ± ACRES.

PROPERTY DESCRIPTION FOR 4.33 ACRE TRACT

A PARCEL OUT OF SECTION 5, BLOCK A-39 PUBLIC SCHOOL LAND SURVEY, ANDREWS COUNTY, TEXAS FURTHER BEING OUT OF A TRACT OF LAND DESCRIBED IN THAT CERTAIN INSTRUMENT RECORDED IN VOLUME 986 PAGE 702, AS FILED IN THE OFFICE OF THE COUNTY CLERK OF ANDREWS COUNTY, TEXAS, SAID PARCEL HAVING BEEN SURVEYED ON THE GROUND FOR AN EASEMENT BY FURMAN LAND SURVEYORS, INC. OCTOBER 4, 2014 AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

(BEARINGS AND DISTANCES ARE GRID UTM COORDINATE SYSTEM-ZONE 13N, NAD (1983) USING GPS RELATIVE POSITIONING TECHNIQUES BASED ON AN OPUS ON JULY 8, 2014. COMBINED SCALE FACTOR = 0.99984888)

COMMENCING AT GALVANIZED BOLT IN A STONE MOUND FOUND AND ACCEPTED FOR THE NORTHEAST CORNER OF SAID SECTION 5, FROM WHENCE A 1/2 INCH IRON ROD WITH CAP STAMPED "PS 15701" FOUND FOR THE SOUTHEAST CORNER OF SAID SECTION 5 BEARS S. 00° 53' 07" E. (BASE LINE) 5290.60 FEET;

THENCE S. 00° 53' 07" E. 2982.10 FEET ALONG THE EAST LINE OF SAID SECTION 5, TO A POINT IN THE SOUTHERLY RIGHT-OF-WAY LINE OF RM 87 AS MONUMENTED ON THE GROUND, AND BEING DESCRIBED

IN THAT CERTAIN INSTRUMENT RECORDED IN VOLUME 47 PAGE 77 AS FILE IN THE OFFICE OF THE COUNTY CLERK OF ANDREWS COUNTY, TEXAS;

THENCE S. 89° 00' 57" W. 3980.20 FEET ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE TO A POINT BEING THE BEGINNING CORNER OF THIS PARCEL, SAME BEING A POINT IN THE NORTHERLY LINE OF A 40.00± ACRE SUBSTATION PREVIOUSLY SURVEYED;

THENCE S. 89° 00' 56" W. 149.98 FEET ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE, AND SAID SUBSTATION LINE TO A POINT;

THENCE N. 00° 59' 04" W. 431.40 FEET TO A POINT;

THENCE S. 88° 52' 08" W. 675.74 FEET TO A POINT IN THE EASTERLY LINE OF AN EXISTING SOUTHWESTERN PUBLIC SERVICE COMPANY EASEMENT, BEING DESCRIBED IN THAT CERTAIN INSTRUMENT RECORDED IN VOLUME 638 PAGE 449 AS FILE IN THE OFFICE OF THE COUNTY CLERK OF ANDREWS COUNTY, TEXAS;

THENCE N. 01° 00' 54" W. 149.98 FEET ALONG SAID EASEMENT RECORDED IN VOLUME 638 PAGE 449 TO A POINT;

THENCE N. 88° 52' 08" E. 825.80 FEET TO A POINT;

THENCE S. 00° 59' 04" E. 581.77 FEET TO THE POINT OF BEGINNING.

TRACT CONTAINS 4.33 ± ACRES.

PROPERTY DESCRIPTION FOR 5.051 ACRE TRACT

ALL THAT CERTAIN LOT, TRACT OR PARCEL OF LAND BEING LOCATED IN SECTION 5, BLOCK A-39, PUBLIC SCHOOL LAND SURVEY, ABSTRACT 2117, ANDREWS COUNTY, TEXAS, BEING ALL OF THAT CERTAIN 5.051 TRACT CONVEYED TO WASTE CONTROL SPECIALISTS LLC BY DEED RECORDED AS DOCUMENT 16-2010, OFFICIAL PUBLIC RECORDS, ANDREWS COUNTY, TEXAS, (O.P.R.,A.CO.TX.) AND BEING MORE PARTICULARLY DESCRIBED, BY METES AND BOUNDS, AS FOLLOWS:

BEGINNING AT A 5/8 INCH IRON PIN SET (N 6,868,782.18 E 562,578.10) WITHIN SAID SECTION 5 AND BEARING NORTH 54°22'55" WEST A DISTANCE OF 3498.13' FROM AN ALUMINUM MONUMENT FOUND FOR COMMON SOUTHEAST CORNER OF SAID SECTION 5, SOUTHWEST CORNER OF SECTION 4, BLOCK A-39, PUBLIC SCHOOL LAND SURVEY, ABSTRACT 2116, NORTHWEST CORNER OF SECTION 7, BLOCK A-39, PUBLIC SCHOOL LAND SURVEY, ABSTRACT 2118 AND NORTHEAST CORNER OF SECTION 6, BLOCK A-39, PUBLIC SCHOOL LAND SURVEY, ABSTRACT 1112;

THENCE WITH THE SOUTH LINE OF SAID 5.051 ACRE TRACT, NORTH 87°27'18" WEST A DISTANCE OF 550.00 FEET TO A 5/8 INCH IRON PIN SET IN THE EAST LINE OF THAT CERTAIN 40.00 ACRE TRACT CONVEYED TO WASTE CONTROL SPECIALISTS LLC BY DEED RECORDED AS DOCUMENT 14-4790, O.P.R.A., CO., TX. AND BEARING N 02°30'42" EAST A DISTANCE OF 920.53 FEET FROM A 1/2 INCH IRON PIN FOUND FOR SOUTHEAST CORNER OF SAID 40.00 ACRE TRACT;

THENCE WITH THE COMMON WEST LINE OF SAID 5.051 ACRE TRACT AND EAST LINE OF SAID 40.00 ACRE TRACT, NORTH 02°30'42" EAST, PASSING A 1/2 INCH IRON PIN FOUND FOR THE NORTHEAST CORNER OF SAID 40.00 ACRE TRACT AT A DISTANCE OF 399.26 FEET, CONTINUING A TOTAL DISTANCE OF 400.00 FEET TO A 5/8 INCH IRON PIN SET IN THE SOUTH RIGHT OF WAY (R.O.W.) LINE OF STATE

HIGHWAY 176 AND BEARING SOUTH 87°27'18" EAST A DISTANCE OF 1521.92 FEET FROM A CONCRETE MONUMENT FOUND (DISTURBED) IN SAID SOUTH R.O.W. LINE OF STATE HIGHWAY 176 NEAR THE TEXAS AND NEW MEXICO STATE LINE;

THENCE WITH THE COMMON NORTH LINE OF SAID 5.051 ACRE TRACT, SAID SOUTH R.O.W. LINE OF STATE HIGHWAY 176 AND GENERALLY WITH A FENCE, SOUTH 87°27'18" EAST A DISTANCE OF 550.00 FEET TO A 5/8 INCH IRON PIN SET, BEARING SOUTH 47°09'08" WEST A DISTANCE OF 4187.39 FEET FROM A SPIKE FOUND FOR COMMON NORTHEAST CORNER OF SAID SECTION 5, NORTHWEST CORNER OF SAID SECTION 4, SOUTHWEST CORNER OF SECTION 24, BLOCK A-29, PUBLIC SCHOOL LAND SURVEY, ABSTRACT 2113 AND THE SOUTHEAST CORNER OF SECTION 25, BLOCK A-29, PUBLIC SCHOOL LAND SURVEY, ABSTRACT 2104 AND BEARING NORTH 87°27'18" WEST A DISTANCE OF 2757.83 FEET FROM A CONCRETE MONUMENT FOUND IN SAID SOUTH R.O.W. LINE OF STATE HIGHWAY 176;

THENCE DEPARTING SAID SOUTH R.O.W. LINE OF STATE HIGHWAY 176, SOUTH 02°30'42" WEST A DISTANCE OF 400.00 FEET TO THE POINT OF BEGINNING, CONTAINING 5.051 ACRE OF LAND.

PROPERTY DESCRIPTION FOR 9.881 ACRE TRACT

BEING A 9.881 ACRE (430,420 SQUARE FEET) TRACT OF LAND OUT OF SECTION 5, BLOCK A-39 PUBLIC SCHOOL LANDS, ABSTRACT NO. 2117 AND SECTION 6, BLOCK A-39, PUBLIC SCHOOL LANDS, ABSTRACT NO. 1112 IN ANDREWS, COUNTY, TEXAS, SAID 9.881 ACRE TRACT OF LAND BEING OUT OF A TRACT OF LAND DEEDED TO ANDREWS COUNTY, TEXAS AS RECORDED IN VOLUME 986, PAGE 702 OF THE DEED RECORDS OF ANDREWS COUNTY, TEXAS, SAID 9.881 ACRE TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

COMMENCING AT A 5/8 INCH IRON ROD FOUND WITH RED PLASTIC CAP MARKED "SEMPCO SURVEYING" FOR THE SOUTHWEST CORNER OF A 5.051 ACRE (BY DEED) TRACT OF LAND CONVEYED TO WASTE CONTROL SPECIALIST, LLC, AS RECORDED IN COUNTY CLERK'S FILE NO. 16-2010 OF THE OFFICIAL PUBLIC RECORDS, ANDREWS COUNTY, TEXAS, SAID 5/8" IRON ROD BEING IN THE EAST LINE OF A 40 ACRE TRACT OF LAND (BY DEED), CONVEYED TO SOUTHWESTERN PUBLIC SERVICE COMPANY, AS RECORDED IN COUNTY CLERK'S FILE NO. 14-6868 OF THE OFFICIAL PUBLIC RECORDS ANDREWS COUNTY, TEXAS, FROM WHICH A ½ INCH IRON ROD WITH RED CAP MARKED "FURMAN RPLS" FOUND FOR THE NORTHEAST CORNER OF SAID 40 ACRE TRACT OF LAND AND IN THE SOUTH RIGHT-OF-WAY LINE OF TEXAS STATE HIGHWAY NO. 176, BEARS NORTH 02 DEGREES 30 MINUTES 42 SECONDS EAST, A DISTANCE OF 399.27 FEET, AND FROM WHICH A 5/8 INCH IRON ROD WITH RED PLASTIC CAP FOUND FOR THE NORTHWEST CORNER OF SAID 5.051 ACRE TRACT BEARS NORTH 02 DEGREES 30 MINUTES 42 SECONDS EAST, A DISTANCE OF 400.19 FEET; THENCE ALONG THE SOUTH LINE OF SAID 5.051 ACRE TRACT, SOUTH 87 DEGREES 27 MINUTES 18 SECONDS EAST, A DISTANCE OF 291.44 FEET, TO A 5/8 INCH IRON ROD WITH CAP STAMPED "GORRONDONA & ASSOCIATES" SET FOR THE POINT OF BEGINNING, SAID CALCULATED POINT HAVING GRID COORDINATES OF N=6,868,793.606 AND E=562,319.762:

THENCE SOUTH 87 DEGREES 27 MINUTES 18 SECONDS EAST, ALONG THE SOUTH LINE OF SAID 5.051 ACRE TRACT A DISTANCE OF 100.20 FEET TO A 5/8 INCH IRON ROD WITH CAP STAMPED "GORRONDONA & ASSOCIATES" SET, FROM WHICH A 5/8" IRON ROD FOUND WITH RED CAP MARKED "SEMPCO SURVEYING" FOUND FOR THE SOUTHEAST CORNER OF SAID 5.051 ACRE TRACT BEARS, SOUTH 87 DEGREES 27 MINUTES 18 SECONDS EAST, A DISTANCE OF 158.36 FEET;
THENCE SOUTH 01 DEGREE 06 MINUTES 47 SECONDS EAST, TO THE SOUTH LINE OF SAID SECTION 5 AND THE NORTH LINE OF SECTION 6 A DISTANCE OF 1,915.00 FEET, FROM WHICH A ALUMINUM CAP FOUND MARKED "FURMAN" FOUND FOR THE SOUTHEAST CORNER OF SAID SECTION 5, THE NORTHEAST CORNER OF SAID SECTION 6, THE SOUTHWEST CORNER OF SECTION 4, BLOCK A-39, PUBLIC SCHOOL LANDS, ABSTRACT NO. 2116 AND FOR THE NORTHWEST CORNER OF SECTION 7, BLOCK A-39, PUBLIC SCHOOL LANDS, ABSTRACT NO. 2116, BEARS SOUTH 87 DEGREES 29 MINUTES 25 SECONDS, A

DISTANCE OF 2968.05 FEET, CONTINUING SOUTH 01 DEGREES 06 MINUTES 47 EAST, IN ALL A DISTANCE OF 4,348.67 FEET TO A 5/8 INCH IRON ROD WITH CAP STAMPED "GORRONDONA & ASSOCIATES" SET IN THE NORTHEASTERLY LINE OF A 135 FOOT EASEMENT AND RIGHT-OF-WAY DEED TO SOUTHWESTERN PUBLIC SERVICE COMPANY, AS RECORDED IN VOLUME 638, PAGE 449 OF THE DEED RECORDS OF ANDREWS COUNTY, TEXAS;

THENCE NORTH 47 DEGREES 32 MINUTES 30 SECONDS WEST, WITH THE NORTHEASTERLY LINE OF SAID 135 FOOT WIDE EASEMENT AND RIGHT-OF-WAY, A DISTANCE OF 138.02 FEET TO A 5/8 INCH IRON ROD WITH CAP STAMPED GORRONDONA & ASSOCIATES: SET;

THENCE NORTH 01 DEGREE 06 MINUTES 47 SECONDS WEST, PASSING THE SOUTH LINE OF SAID SECTION 5 AND THE NORTH LINE OF SAID SECTION 6 AT A DISTANCE OF 2,344.86 FEET, IN ALL A DISTANCE OF 4,259.93 FEET TO THE POINT OF BEGINNING, AND CONTAINING 9.881 ACRES OF LAND, MORE OR LESS

PROPERTY DESCRIPTION FOR 0.1643 ACRE TRACT

BEING A 0.1643 ACRE TRACT OF LAND SITUATED IN SECTION 5, BLOCK A-39, PUBLIC SCHOOL LAND SURVEY, D. C. REED SURVEY, ABSTRACT NO. A-2117, ANDREWS COUNTY, TEXAS, AND BEING A PORTION OF SECTION 5, BLOCK A-39, AS DESCRIBED IN DEED TO ANDREWS COUNTY, AS RECORDED IN VOLUME 986, PAGE 702, OFFICIAL PUBLIC RECORDS OF ANDREWS COUNTY, TEXAS (O.P.R.A.C.T.), SAID 0.1643 ACRE TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT A POINT FOR CORNER ON THE NORTH RIGHT-OF-WAY LINE OF STATE HIGHWAY 176 (120 FOOT WIDTH), BEING LOCATABLE BY NAD83 GRID COORDINATE N: 6,869,390.25, E: 560,608.53, AND FROM WHICH A FOUND TXDOT CONCRETE MONUMENT (DISTURBED) ON SAID NORTH RIGHT-OF-WAY BEARS SOUTH 87 DEGREES 27 MINUTES 18 SECONDS EAST, A DISTANCE OF 2,350.44 FEET;

THENCE NORTH 87 DEGREES 27 MINUTES 18 SECONDS WEST, ALONG THE NORTH RIGHT-OF-WAY LINE OF SAID STATE HIGHWAY 176, A DISTANCE OF 30.00 FEET TO A POINT FOR CORNER, FROM WHICH A FOUND TXDOT CONCRETE MONUMENT (DISTURBED) ON SAID NORTH RIGHT-OF-WAY BEARS NORTH 87 DEGREES 27 MINUTES 18 SECONDS WEST, A DISTANCE OF 47.32 FEET;

THENCE NORTH 02 DEGREES 28 MINUTES 13 SECONDS EAST, DEPARTING THE NORTH RIGHT-OF-WAY LINE OF SAID STATE HIGHWAY 176 AND CROSSING SAID SECTION 5, A DISTANCE OF 238.48 FEET TO A POINT FOR CORNER ON THE SOUTH LINE OF A 70 FOOT WIDE SOUTHWESTERN PUBLIC SERVICE COMPANY POWER LINE EASEMENT, AS RECORDED IN INSTRUMENT NO. 15-2565, O.P.R.A.C.T.;

THENCE SOUTH 87 DEGREES 36 MINUTES 18 SECONDS EAST, CONTINUING ACROSS SAID SECTION 5 ALONG THE SOUTH LINE OF SAID 70 FOOT WIDE POWER LINE EASEMENT, A DISTANCE OF 30 FEET TO A POINT FOR CORNER;

THENCE SOUTH 02 DEGREES 28 MINUTES 13 SECONDS WEST, DEPARTING THE SOUTH LINE OF SAID 70 FOOT WIDE POWER LINE EASEMENT AND CONTINUING ACROSS SAID SECTION 5, A DISTANCE OF 238.56 FEET TO THE POINT OF BEGINNING AND CONTAINING 0.1643 ACRES (OR 7,156 SQUARE FEET) OF LAND, MORE OR LESS.

PROPERTY DESCRIPTION FOR 2.330 ACRE TRACT

BEING A 2.330 ACRE TRACT OF LAND SITUATED IN SECTION 5, BLOCK A-39, PUBLIC SCHOOL LAND SURVEY, D.C. REED SURVEY, ABSTRACT NO. 2117, ANDREWS COUNTY, TEXAS, AND BEING A PORTION OF SECTION 5, BLOCK A-39, AS DESCRIBED IN DEED TO ANDREWS COUNTY, AS RECORDED IN VOLUME

986, PAGE 702, OFFICIAL PUBLIC RECORDS OF ANDREWS COUNTY, TEXAS (O.P.R.A.C.T.), SAID 2.330 ACRE TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED BY MEETS AND BOUNDS AS FOLLOWS:

COMMENCING FROM A FOUND TXDOT CONCRETE MONUMENT (DISTURBED) ON THE NORTH RIGHT-OF-WAY OF STATE HIGHWAY 176 (120 FOOT WIDTH), BEING ON THE TEXAS/NEW MEXICO STATE LINE;

THENCE NORTH 02 DEGREES 30 MINUTES 28 SECONDS EAST, ALONG THE TEXAS/NEW MEXICO STATE LINE, A DISTANCE OF 308.36 FEET TO A POINT FOR THE INTERSECTION OF SAID SATE LINE WITH THE NORTH LINE OF A 70 FOOT WIDE SOUTHWESTERN PUBLIC COMPANY POWER LINE EASEMENT, AS RECORDED IN INSTRUMENT NO. 15-2565, O.P.R.A.C.T.;

THENCE SOUTH 87 DEGREES 36 MINUTES 18 SECONDS EAST, CROSSING SAID SECTION 5 ALONG THE NORTH LINE OF SAID 70 FOOT WIDE POWER LINE EASEMENT, A DISTANCE OF 47.12 FEET TO THE POINT OF BEGINNING, BEING LOCATABLE BY NAD83 GRID COORDINATE N: 6,869,966.71, E: 560,591.86;

THENCE CONTINUING ACROSS SAID SECTION 5 THE FOLLOWING COURSES AND DISTANCES;

NORTH 02 DEGREES 28 MINUTES 13 SECONDS EAST, A DISTANCE OF 1,749.68 FEET TO A POINT FOR CORNER;

NORTH 82 DEGREES 59 MINUTES 32 SECONDS EAST, A DISTANCE OF 144.03 FEET TO A POINT FOR CORNER;

NORTH 45 DEGREES 43 MINUTES 56 SECONDS EAST, A DISTANCE OF 603.03 FEET TO A POINT FOR CORNER;

NORTH 82 DEGREES 00 MINUTES 01 SECOND EAST, A DISTANCE OF 51.64 FEET TO A POINT FOR CORNER;

SOUTH 87 DEGREES 22 MINUTES 12 SECONDS EAST, A DISTANCE OF 832.18 FEET TO A POINT FOR CORNER, FROM WHICH A FOUND SPIKE FOR THE NORTHEAST CORNER OF SAID SECTION 5 BEARS NORTH 87 DEGREES 10 MINUTES 23 SECONDS EAST, A DISTANCE OF 3,545.99 FEET;

SOUTH 02 DEGREES 37 MINUTES 48 SECONDS WEST, A DISTANCE OF 30.00 FEET TO A POINT FOR CORNER;

NORTH 87 DEGREES 22 MINUTES 12 SECONDS WEST, A DISTANCE OF 829.39 FEET TO A POINT FOR CORNER;

SOUTH 82 DEGREES 00 MINUTES 01 SECOND WEST, A DISTANCE OF 39.03 FEET TO A POINT FOR CORNER;

SOUTH 45 DEGREES 43 MINUTE 56 SECONDS WEST, A DISTANCE OF 553.77 FEET TO A POINT FOR CORNER;
SOUTH 02 DEGREES 24 MINUTES 26 SECONDS WEST, A DISTANCE OF 30.41 FEET TO A POINT FOR CORNER;

SOUTH 82 DEGREES 59 MINUTES 32 SECONDS WEST, A DISTANCE OF 50.98 FEET TO A POINT FOR CORNER;

SOUTH 45 DEGREES 43 MINUTES 56 SECONDS WEST, A DISTANCE OF 14.90 FEET TO A POINT FOR CORNER;

NORTH 73 DEGREES 04 MINUTES 01 SECOND WEST, A DISTANCE OF 22.23 FEET TO A POINT FOR CORNER;

SOUTH 82 DEGREES 59 MINUTES 32 SECONDS WEST, A DISTANCE OF 58.73 FEET TO A POINT FOR CORNER;

SOUTH 38 DEGREES 38 MINUTES 27 SECONDS WEST, A DISTANCE OF 35.62 FEET TO A POINT FOR CORNER;

THENCE SOUTH 02 DEGREES 28 MINUTES 13 SECONDS WEST, CONTINUING ACROSS SAID SECTION 5, A DISTANCE OF 1,698.99 FEET TO A POINT FOR CORNER ON THE NORTH LINE OF SAID 70 FOOT WIDE POWER LINE EASEMENT;

THENCE NORTH 87 DEGREES 36 MINUTES 18 SECONDS WEST, CONTINUING ACROSS SAID SECTION 5 ALONG THE NORTH LINE OF SAID 70 FOOT WIDE POWER LINE EASEMENT, A DISTANCE OF 30.00 FEET TO THE POINT OF BEGINNING AND CONTAINING 2.330 ACRES (OR 101,507 SQUARE FEET) OF LAND, MORE OR LESS;

PROPERTY DESCRIPTION FOR 0.0245 ACRE TRACT

BEING A 0.0245 ACRE TRACT OF LAND SITUATED IN SECTION 5, BLOCK A-39, PUBLIC SCHOOL LAND SURVEY, D.C. REED SURVEY, ABSTRACT NO. A-2117, ANDREWS COUNTY, TEXAS, AND BEING A PORTION OF SECTION 5, BLOCK A-39, AS DESCRIBED IN DEED TO ANDREWS COUNTY, AS RECORDED IN VOLUME 986, PAGE 702, OFFICIAL PUBLIC RECORDS OF ANDREWS COUNTY, TEXAS (O.P.R.A.C.T.), SAID 0.0245 ACRE TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF STATE HIGHWAY 176 (120 FOOT WIDTH), BEING LOCATABLE BY NAD83 GRID COORDINATE N: 6,869,271.71, E: 560,573.39, AND FROM WHICH A FOUND TXDOT CONCRETE MONUMENT ON SAID SOUTH RIGHT-OF-WAY BEARS NORTH 87 DEGREES 27 MINUTES 18 SECONDS WEST, A DISTANCE OF 48.07 FEET;

THENCE SOUTH 87 DEGREES 27 MINUTES 18 SECONDS EAST, ALONG THE SOUTH RIGHT-OF-WAY LINE OF SAID STATE HIGHWAY 176, A DISTANCE OF 30.00 FEET TO THE POINT OF CORNER, FROM WHICH A FOUND 5/8 INCH ROD WITH CAP STAMPED "SEMPCO SURVEYING" FOR THE NORTHEAST CORNER OF A CALLED 40.00 ACRE TRACT DESCRIBED IN DEED TO SOUTHWESTERN PUBLIC SERVICE COMPANY, AS RECORDED IN INSTRUMENT NUMBER 14-6868, O.P.R.A.C.T, BEARS SOUTH 87 DEGREES 27 MINUTES 18 SECONDS EAST, A DISTANCE OF 1,443.92 FEET;

THENCE SOUTH 02 DEGREES 28 MINUTES 13 SECONDS WEST, DEPARTING THE SOUTH RIGHT-OF-WAY LINE OF SAID STATE HIGHWAY 176 AND CROSSING SAID SECTION 5, A DISTANCE OF 35.59 FEET TO A POINT FOR CORNER;

THENCE NORTH 87 DEGREES 31 MINUTES 47 SECONDS WEST, CONTINUING ACROSS SAID SECTION 5, A DISTANCE OF 30.00 FEET TO A POINT FOR CORNER;

THENCE NORTH 02 DEGREES 28 MINUTES 13 SECONDS EAST, CONTINUING ACROSS SAID SECTION 5, A DISTANCE OF 35.63 FEET TO THE POINT OF BEGINNING AND CONTINUING 0.0245 ACRES (OR 1.068 SQUARE FEET) OF LAND, MORE OR LESS.

PROPERTY DESCRIPTION FOR 6.734 ACRE TRACT

BEING A 6.734 ACRE TRACT OF LAND SITUATED IN SECTION 2, BLOCK A-39, PUBLIC SCHOOL LAND, D.C.

REED SURVEY, ABSTRACT NO. A-2114; SECTION 3, BLOCK A-39, PUBLIC SCHOOL LAND, D.C. REED SURVEY, ABSTRACT NO. A-2115; SECTION 4, BLOCK A-39, PUBLIC SCHOOL LAND, D.C. REED SURVEY, ABSTRACT A-2116; SECTION 5, BLOCK A-39, PUBLIC SCHOOL LAND SURVEY, D.C. REED SURVEY, ABSTRACT NO. A-2117, AND SECTION 9, BLOCK A-39, PUBLIC SCHOOL LAND, D.C. REED SURVEY, ABSTRACT NO. 2120, ANDREWS COUNTY, TEXAS, AND BEING A PORTION OF SECTIONS 2, 3, 4, 5, AND 9, BLOCK A-39, AS DESCRIBED IN DEED TO ANDREWS COUNTY, AS RECORDED IN VOLUME 986, PAGE 702, OFFICIAL PUBLIC RECORDS OF ANDREWS COUNTY, TEXAS (O.P.R.A.C.T.), SAID 6.734 ACRE TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT A FOUND 5/8 INCH IRON ROD WITH CAP STAMPED "SEMPCO SURVEYING" FOR THE NORTHEAST CORNER OF A CALLED 5.051 ACRE TRACT DESCRIBED IN DEED TO WASTE CONTROL SPECIALIST LLC, AS RECORDED IN INSTRUMENT NUMBER 16-2010, O.P.R.A.C.T, AND BEING ON THE SOUTH RIGHT-OF-WAY LINE OF STATE HIGHWAY 176 (120 FOOT WIDTH), SAID POINT BEING LOCATABLE BY NAD83 GRID COORDINATE N: 6,869,181.85, E: 562,595.04, AND FROM WHICH A FOUND 5/8 INCH IRON ROD WITH CAP STAMPED "SEMPCO SURVEYING" FOR THE NORTHWEST CORNER OF SAID 5.051 ACRE TRACT BEARS NORTH 87 DEGREES 27 MINUTES 18 SECONDS WEST, A DISTANCE OF 550.13 FEET;

THENCE SOUTH 87 DEGREES 27 MINUTES 18 SECONDS EAST, ALONG THE SOUTH RIGHT-OF-WAY LINE OF SAID STATE HIGHWAY 176, AND CROSSING SAID SECTIONS 5, 4, AND 3, A DISTANCE OF 11,163.71 FEET TO A FOUND TXDOT CONCRETE MONUMENT FOR THE BEGINNING OF A TANGENT CURVE TO THE RIGHT, HAVING A RADIUS OF 2,804.79 FEET AND WHOSE CHORD BEARS SOUTH 74 DEGREES 19 MINUTES 32 SECONDS EAST, A DISTANCE OF 1,272.15 FEET;

THENCE SOUTHEASTERLY, CONTINUING ALONG THE SOUTH RIGHT-OF-WAY LINE OF SAID STATE HIGHWAY 176, CROSSING SAID SECTION 3, AND ALONG SAID CURVE TO THE RIGHT, THROUGH A CENTRAL ANGLE OF 26 DEGREES 12 MINUTES 55 SECONDS, AND AN ARC LENGTH OF 1,283.31 FEET TO A FOUND TXDOT CONCRETE MONUMENT (DISTURBED) FOR THE END OF SAID CURVE;

THENCE SOUTH 61 DEGREES 12 MINUTES 34 SECONDS EAST, CONTINUING ALONG THE SOUTH RIGHT-OF-WAY LINE OF SAID STATE HIGHWAY 176 AND CROSSING SAID SECTIONS 3, 2, AND 9, A DISTANCE OF 7,108.47 FEET TO A POINT FOR CORNER ON THE EAST LINE OF SAID SECTION 9, FROM WHICH A FOUND T-POST WITH SCATTERED STONES BEARS NORTH 02 DEGREES 10 MINUTES 40 SECONDS EAST, A DISTANCE OF 1,236.63 FEET;

THENCE SOUTH 02 DEGREES 10 MINUTES 40 SECONDS WEST, DEPARTING THE SOUTH RIGHT-OF-WAY LINE OF SAID STATE HIGHWAY 176 ALONG THE EAST LINE OF SAID SECTION 9, A DISTANCE OF 16.78 FEET TO A POINT FOR CORNER, FROM WHICH A FOUND STONE BEARS SOUTH 02 DEGREES 10 MINUTES 40 SECONDS WEST, A DISTANCE OF 4,035.71 FEET;

THENCE NORTH 61 DEGREES 12 MINUTES 34 SECONDS WEST, CROSSING SAID SECTIONS 9, 2, AND 3, A DISTANCE OF 7,115.98 FEET TO A POINT FOR THE BEGINNING OF A TANGENT CURVE TO THE LEFT, HAVING A RADIUS OF 2,789.79 FEET AND WHOSE CHORD BEARS NORTH 74 DEGREES 19 MINUTES 32 SECONDS WEST, A DISTANCE OF 1,265.34 FEET;

THENCE NORTHWESTERLY, CONTINUING ACROSS SAID SECTION 3 ALONG SAID CURVE TO THE LEFT, THROUGH A CENTRAL ANGLE OF 26 DEGREES 12 MINUTES 55 SECONDS, AND AN ARC LENGTH OF 1,276.44 FEET TO THE POINT OF TANGENCY;

THENCE NORTH 87 DEGREES 27 MINUTES 18 SECONDS WEST, CROSSING SAID SECTIONS 3, 4, AND 5, A DISTANCE OF 11,163.71 FEET TO A POINT FOR CORNER ON THE EAST LINE OF SAID 5.051 ACRE TRACT, AND FROM WHICH A FOUND 5/8 INCH IRON ROD WITH CAP STAMPED "SEMPCO SURVEYING" FOR THE SOUTHEAST CORNER OF SAID 5.051 ACRES TRACT BEARS SOUTH 02 DEGREES 30 MINUTES 39 SECONDS

WEST, A DISTANCE OF 385.08 FEET;

THENCE NORTH 02 DEGREES 30 MINUTES 39 SECONDS EAST, ALONG THE EAST LINE OF SAID 5.051 ACRE TRACT, A DISTANCE OF 15.00 FEET TO THE POINT OF BEGINNING AND CONTAINING 6.734 ACRES (OR 293,337 SQUARE FEET) OF LAND, MORE OR LESS.

Exhibit B

Permitted Exceptions

Exhibit B

Permitted Exceptions

1. Covenants and Restrictions Recorded in Volume 947, Page 985, Official Public Records of Andrews County, Texas. Said document was re-recorded in Volume 950, Page 637, Official Public Records of Andrews County, Texas.

2. Standby fees, taxes and assessments by any taxing authority for the year 2017, and subsequent years.

3. All leases, grants, exceptions or reservations of coal, lignite, oil, gas and other minerals, together with all rights, privileges, and immunities relating thereto, appearing in the Public Records whether listed in this Exhibit B or not.

4. Lease Agreement from Flying W. Diamond Ranch, Inc. to Texaco Producing, Inc. recorded in Volume 557, Page 31, Deed Records of Andrews County, Texas.

5. Right of Way Easement from Hugh O. Sims, et ux to Magnolia Petroleum Company recorded in Volume 97, Page 288, Deed Records of Andrews County, Texas.

6. Right of Way Easement from Ethel Sims to Sohio Petroleum Company recorded in Volume 332, Page 644, Deed Records of Andrews County, Texas.

7. Right of Way Easement from Ethel Sims to Texas Electric Service Company recorded in Volume 335, Page 543, Deed Records of Andrews County, Texas.

8. Right of Way Easement from Flying W Diamond Ranch, Inc. to Southwest Public Service recorded in Volume 638, Page 449, Deed Records of Andrews County, Texas.

9. Right of Way Easement from H.O. Sims to Garrett M. Smith recorded in Volume 96, Page 309, Deed Records of Andrews County, Texas.

10. Right of Way Easement from Ethel Sims to Texas Electric Service Company recorded in Volume 335, Page 542, Deed Records of Andrews County, Texas.

11. Right of Way Easement from Ed Tinsley to Texas Electric Service Company recorded in Volume 367, Page 272, Deed Records of Andrews County, Texas.

12. Right of Way Easement from H. O. Sims to State Highway Commission recorded in Volume 47, Page 77, Deed Records of Andrews County, Texas.

13. Right of Way Easement from H. O. Sims to State Highway Commission recorded in Volume 68, Page 484, Deed Records of Andrews County, Texas.

14. Right of Way Easement from H. O. Sims, et ux to El Paso Natural Gas Company recorded in Volume 77, Page 361, Deed Records of Andrews County, Texas.

15. Right of Way Easement from Flying W Diamond Ranch, Inc. to El Paso Natural Gas Company recorded in Volume 634, Page 407, Deed Records of Andrews County, Texas.

16. Right of Way Easement from H. O. Sims to State Highway Commission recorded in Volume 68, Page 491, Deed Records of Andrews County, Texas.

17. Right of Way Easement from H. O. Sims to Humble Oil & Refining Company recorded in Volume 74, Page 36, Deed Records of Andrews County, Texas.

18. Right of Way Easement from H. O. Sims to Humble Oil & Refining Company recorded in Volume 74, Page 38, Deed Records of Andrews County, Texas.

19. Right of Way Easement from Flying W. Diamond Ranch, Inc. to Big Three Industries, Inc. recorded in Volume 525, Page 212, Deed Records of Andrews County, Texas.

20. Right of Way Easement from H. O. Sims to Standolind Oil & Gas Company recorded in Volume 92, Page 277, Deed Records of Andrews County, Texas.

21. Right of Way Easement from H. O. Sims to Gulf Refining Company recorded in Volume 179, Page 94, Deed Records of Andrews County, Texas.

22. Right of Way Easement from H. O. Sims to Gulf Refining Company recorded in Volume 191, Page 187, Deed Records of Andrews County, Texas.

23. Right of Way Easement from H. O. Sims to Humble Oil & Refining Company recorded in Volume 77, Page 14, Deed Records of Andrews County, Texas.

24. Right of Way Easement from Flying W Diamond Ranch, Inc. to Leapartners, L.P. recorded In Volume 662, Page 106, Deed Records of Andrews County, Texas.

25. Right of Way Easement from Waste Control Specialists, L.L.C. to Texas Utilities Electric Company recorded in Volume 703, Page 878, Deed Records of Andrews County, Texas.

26. Easement and Right of Way from Waste Control Specialists to Texas Utilities Electric Company recorded in Volume 730, Page 652, Deed Records of Andrews County, Texas.

27. Right of Way Easement from Waste Control Specialists, L.L.C. to Texas Utilities Electric Company recorded in Volume 736, Page 776, Deed Records of Andrews County, Texas.

28. Easements from Waste Control Specialists, LLC to TXU Electric Company recorded in Volume 751, Page 235 and Page 239, Official Public Records of Andrews County, Texas.

29. Terms and conditions of Notice of Intent to Dispose of Industrial Solid Waste recorded

in Volume 818, Page 165, Official Public Records of Andrews County, Texas.

30. Terms and conditions of Assignment from Exxon Mobil Corporation to Waste Control Specialists, LLC, recorded in Volume 828, Page 907, Official Public Records of Andrews County, Texas.

31. Electric Line Easement Lease between Waste Control Specialists, LLC and Me-Tex Oil & Gas, Inc., recorded in Volume 834, Page 308, Official Public Records of Andrews County, Texas.

32. Surface Use Agreement between Waste Control Specialists, LLC and Richard LeSassier, recorded in Volume 853, Page 876, Official Public Records of Andrews County, Texas.

33. Surface Use Agreement between Waste Control Specialists, LLC and Daniella LeSassier, recorded in Volume 853, Page 884, Official Public Records of Andrews County, Texas.

34. Surface Use Agreement between Waste Control Specialists, LLC and William V. Penn, Jr., recorded in Volume 854, Page 490, Official Public Records of Andrews County, Texas.

35. Surface Use Agreement between Waste Control Specialists, LLC and Lucinda McKinney, recorded in Volume 854, Page 970, Official Public Records of Andrews County, Texas.

36. Surface Use Agreement between Waste Control Specialists, LLC and Sempra Energy Production Company (successor in interest to Pacific Enterprises ABC Corporation, recorded in Volume 859, Page 651, Official Public Records of Andrews County, Texas.

37. Surface Use Agreement between Waste Control Specialists, LLC and Donald Lee Penn and wife, Susan M. Penn, recorded in Volume 858, Page 168, Official Public Records of Andrews County, Texas.

38. Surface Use Agreement between Waste Control Specialists, LLC and Sempra Energy Producation Company, recorded in Volume 859, Page 651, Official Public Records of Andrews County, Texas.

39. Rights of ingress and egress as stated in Volume 864, Page 151, Official Public Records of Andrews County, Texas.

40. Rights of ingress and egress as stated in Volume 888, Page 107, Official Public Records of Andrews County, Texas.

41. Easement and Right of Way from Waste Control Specialists, LLC to Oncor Electric Delivery Company, recorded in Volume 901, Page 903, Official Public Records of Andrews County, Texas.

42. Easement and Right of Way from Waste Control Specialists, LLC to Oncor Electric

Delivery Company, recorded in Volume 901, Page 908, Official Public Records of Andrews County, Texas.

43. Easement and Right of Way from Waste Control Specialists, LLC to Oncor Electric Delivery Company, recorded in Volume 901, Page 912, Official Public Records of Andrews County, Texas.

44. Easement Agreement between Waste Control Specialists, LLC and Andrews County, recorded in Volume 915, Page 373, Official Public Records of Andrews County, Texas.

45. Easement and Right of Way from Waste Control Specialists, LLC to Oncor Electric Delivery Company, recorded in Volume 930, Page 700, Official Public Records of Andrews County, Texas.

46. Easement and Right of Way from Waste Control Specialists, LLC to Oncor Electric Delivery Company, recorded in Volume 930, Page 705, Official Public Records of Andrews County, Texas.

47. Easement and Right of Way from Waste Control Specialists, LLC to Oncor Electric Delivery Company, recorded in Volume 930, Page 709, Official Public Records of Andrews County, Texas.

48. Easement and Right of Way from Waste Control Specialists, LLC to Oncor Electric Delivery Company, recorded in Volume 939, Page 536, Official Public Records of Andrews County, Texas.

49. Easement and Right of Way from Waste Control Specialists, LLC to Oncor Electric Delivery Company, recorded in Volume 939, Page 540, Official Public Records of Andrews County, Texas.

50. Easement and Right of Way from Waste Control Specialists, LLC to Oncor Electric Delivery Company, recorded in Volume 949, Page 285, Official Public Records of Andrews County, Texas.

51. Easement to the State of Texas recorded in Volume 986, Page 695, Official Public Records of Andrews County, Texas.

52. Easements to Oncor Electric Delivery Company, recorded in Volume 995, Pages 428 and 433, Volume 1006, Pages 312 and 316, and Volume 1016, Page 97, Official Public Records of Andrews County, Texas.

53. Easements to Southwestern Public Service Company recorded in Instrument Nos. 152565 and 152566, Official Public Records of Andrews County, Texas.

54. Surface Use Agreement by and between Andrews County, Texas, Waste Control Specialist LLC, and XTO Energy, Inc., recorded in Instrument No. 15-2085, Official

Public Records of Andrews County, Texas.

55. Surface Use Agreement by and between Andrews County, Texas, Waste Control Specialist LLC, and XTO Energy, Inc., recorded in Instrument No. 15-2210, Official Public Records of Andrews County, Texas.

56. Easements to Oncor Electric Delivery Co., recorded in Instrument Nos. 164430 and 164431, Official Public Records of Andrews County, Texas.

57. Access Road Easements to XTO Energy Inc., recorded in Instrument Nos. 171435 through 171444, Official Public Records of Andrews County, Texas.

58. Any unrecorded leases.

59. Visible and apparent easements.

60. Rights of parties in possession.

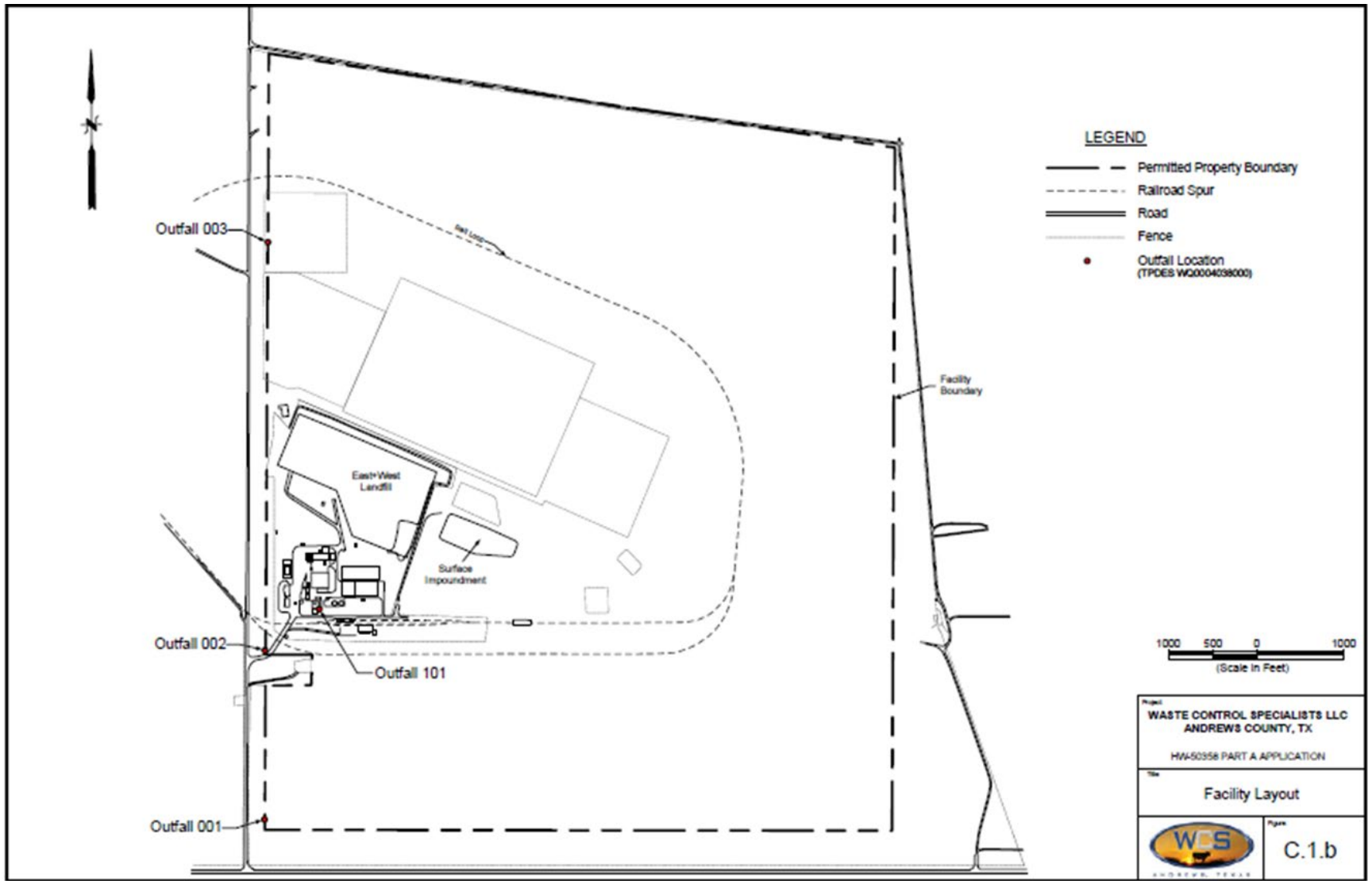
When Recorded Return To:
First American Title Insurance Company
National Commercial Services
601 Travis, Suite 1875
Houston, TX 77002
File No: NCS 880777

THE STATE OF TEXAS
COUNTY OF ANDREWS
I hereby certify that this instrument was FILED on the date and the time stamped hereon by me and was duly RECORDED in the OPR Records of Andrews, Texas.

18-0406 Pages: 23
01/29/2018 11:58 AM

Kenda Heckler, County Clerk
Vicki Scott, Chief Deputy, Acting County Clerk
Andrews, Texas

Attachment B – Facility Maps and Drawings



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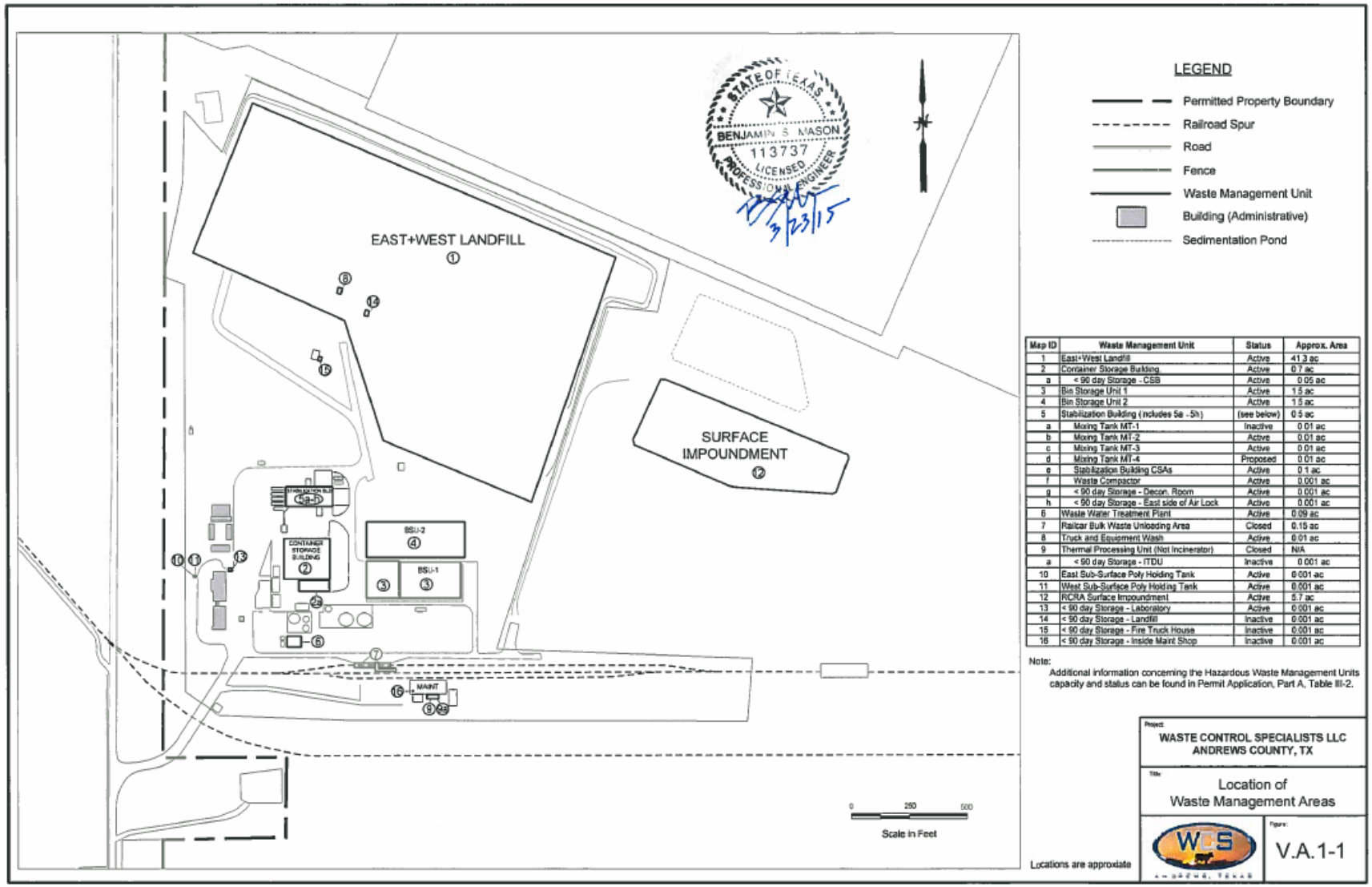
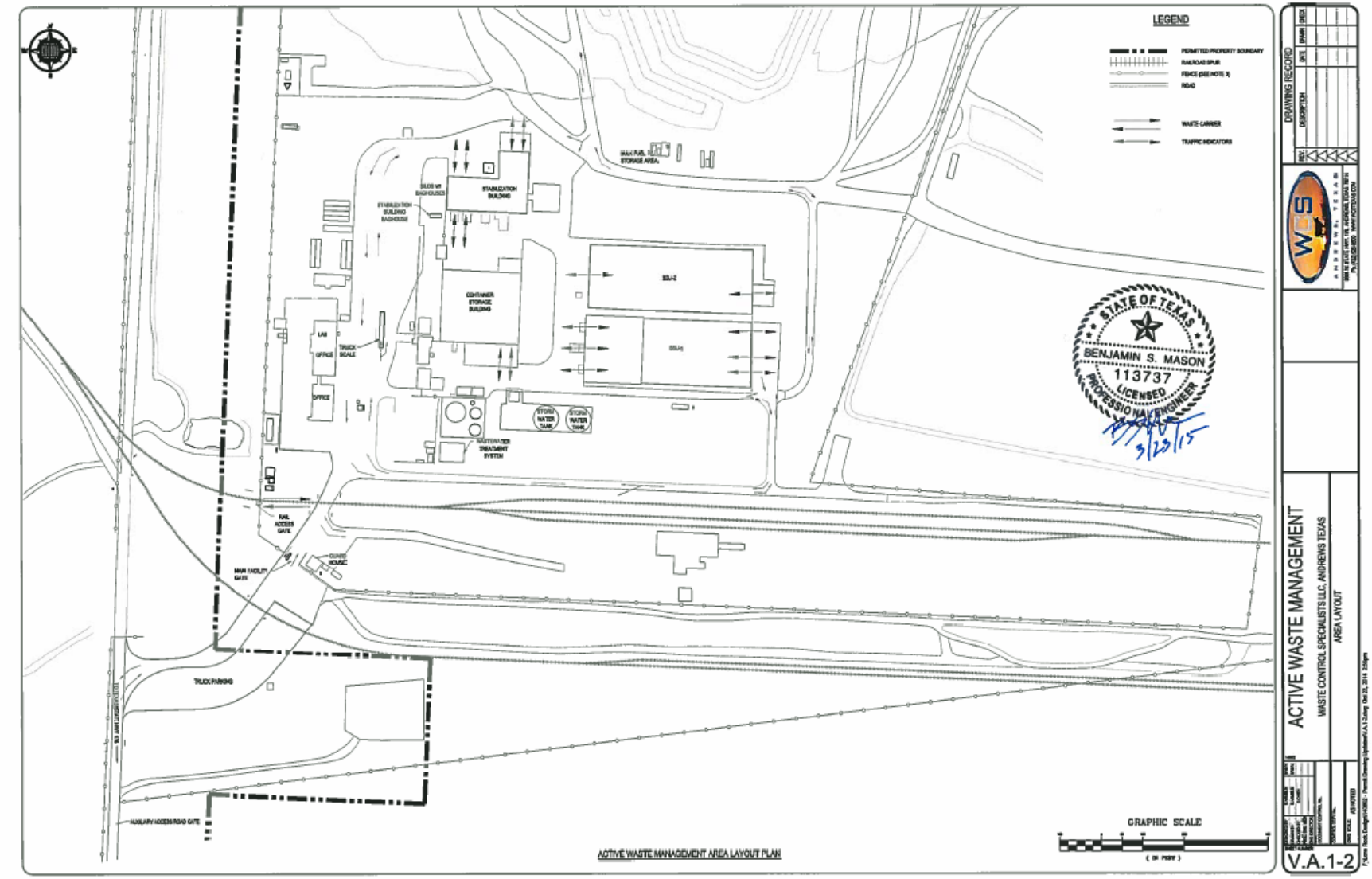


Map ID	Waste Management Unit	Status	Approx. Area
1	East+West Landfill	Active	41.3 ac
2	Container Storage Building	Active	0.7 ac
a	< 90 day Storage - CSB	Active	0.05 ac
3	Bin Storage Unit 1	Active	1.5 ac
4	Bin Storage Unit 2	Active	1.5 ac
5	Stabilization Building (includes 5a - 5h)	(see below)	0.5 ac
a	Mixing Tank MT-1	Inactive	0.01 ac
b	Mixing Tank MT-2	Active	0.01 ac
c	Mixing Tank MT-3	Active	0.01 ac
d	Mixing Tank MT-4	Proposed	0.01 ac
e	Stabilization Building CSAs	Active	0.1 ac
f	Waste Compactor	Active	0.001 ac
g	< 90 day Storage - Decon. Room	Active	0.001 ac
h	< 90 day Storage - East side of Air Lock	Active	0.001 ac
6	Waste Water Treatment Plant	Active	0.09 ac
7	Railcar Bulk Waste Unloading Area	Closed	0.15 ac
8	Truck and Equipment Wash	Active	0.01 ac
9	Thermal Processing Unit (Not Incinerator)	Closed	N/A
a	< 90 day Storage - ITDU	Inactive	0.001 ac
10	East Sub-Surface Poly Holding Tank	Active	0.001 ac
11	West Sub-Surface Poly Holding Tank	Active	0.001 ac
12	RCRA Surface Impoundment	Active	5.7 ac
13	< 90 day Storage - Laboratory	Active	0.001 ac
14	< 90 day Storage - Landfill	Inactive	0.001 ac
15	< 90 day Storage - Fire Truck House	Inactive	0.001 ac
16	< 90 day Storage - Inside Maint Shop	Inactive	0.001 ac

Note:
Additional information concerning the Hazardous Waste Management Units capacity and status can be found in Permit Application, Part A, Table III-2.

Attachment B – Facility Maps and Drawings



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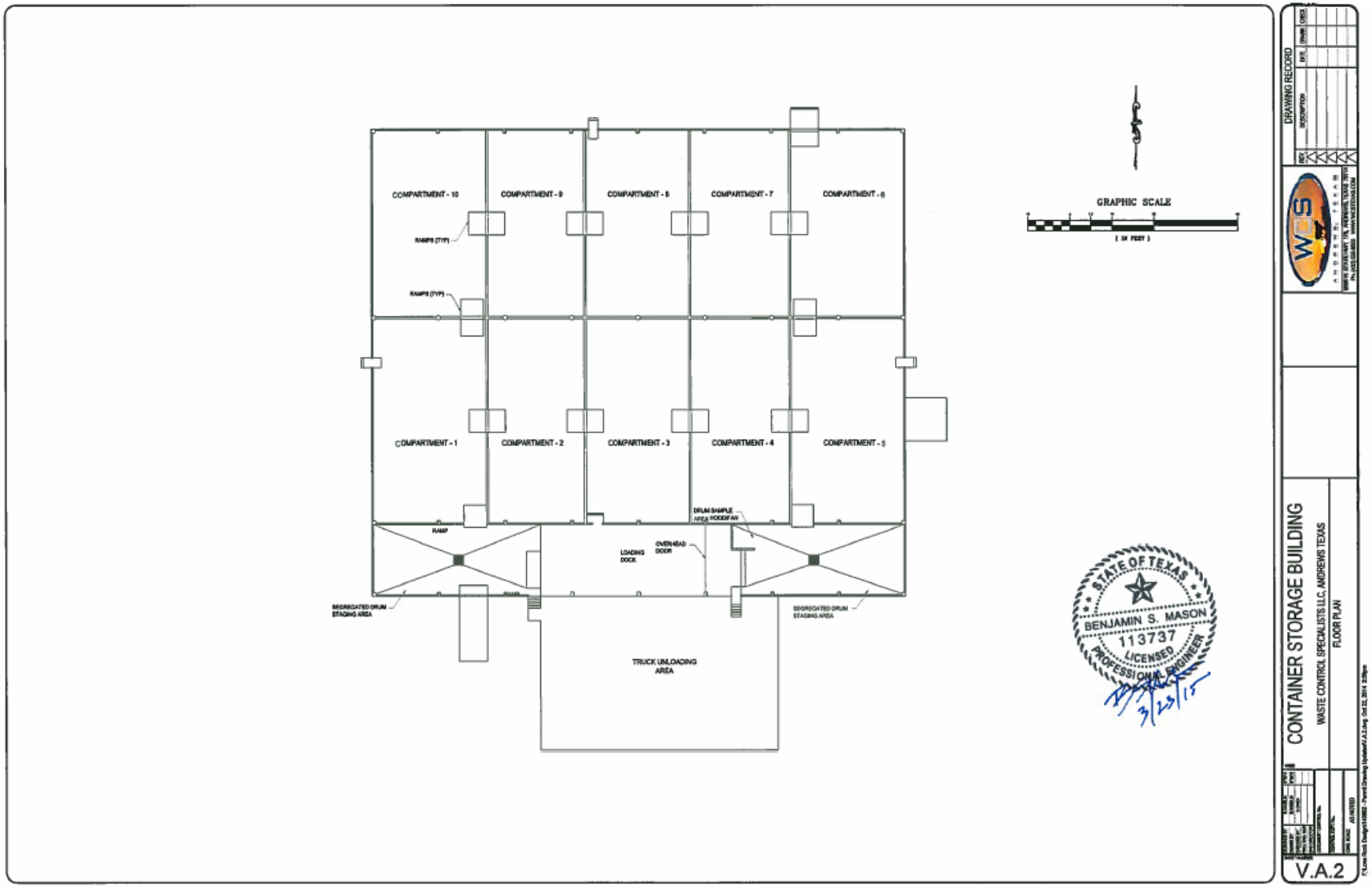

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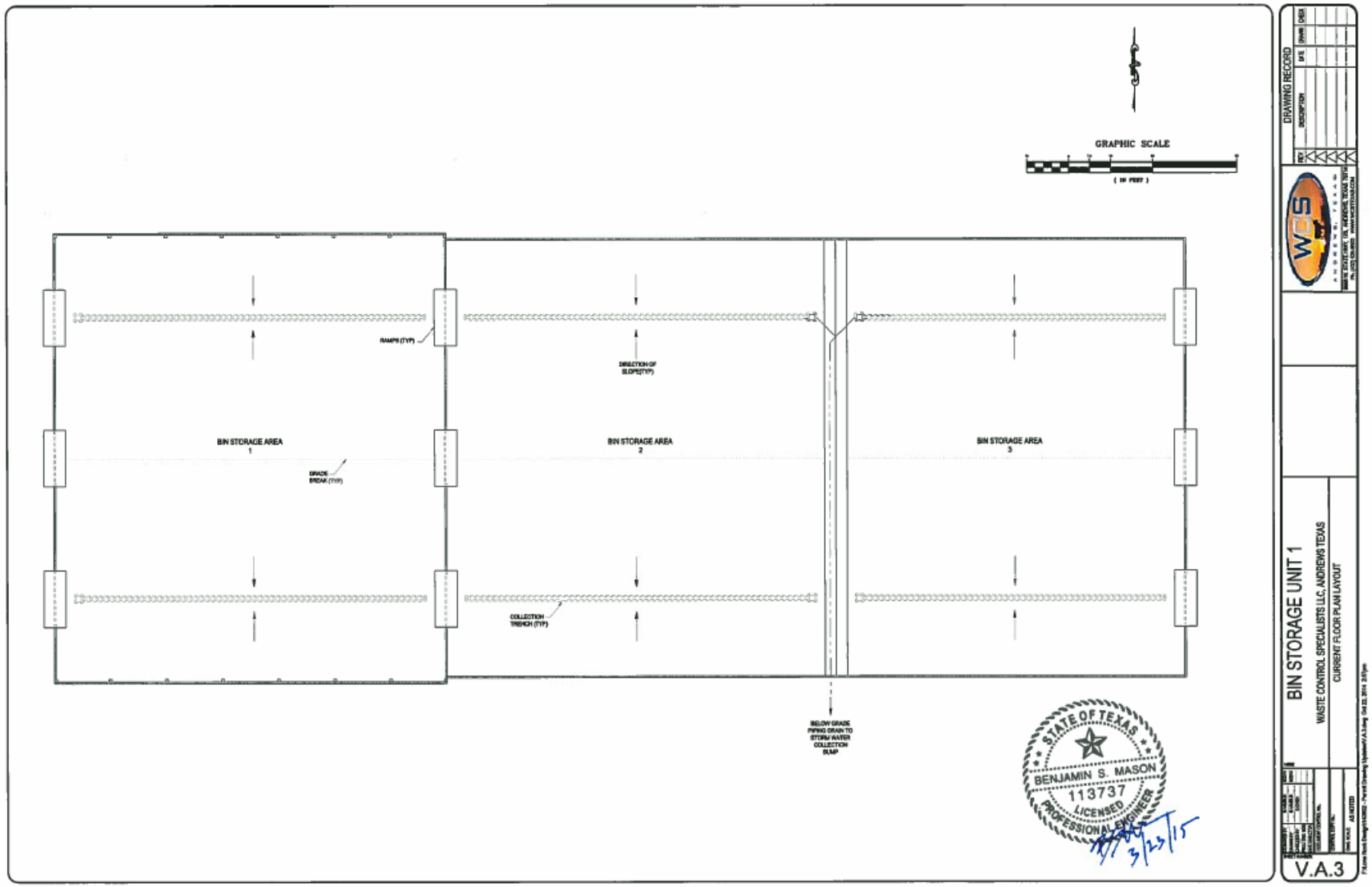

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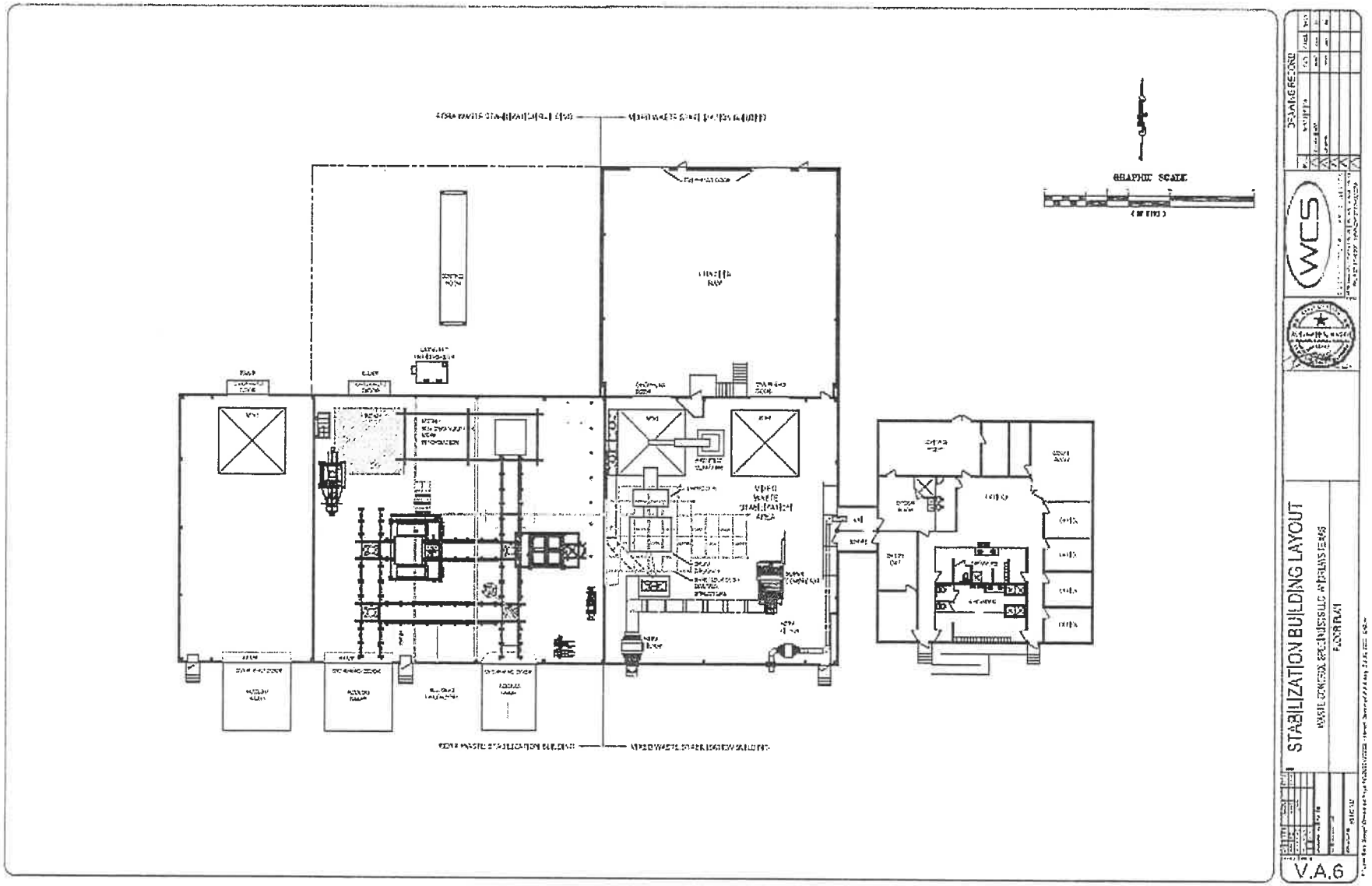

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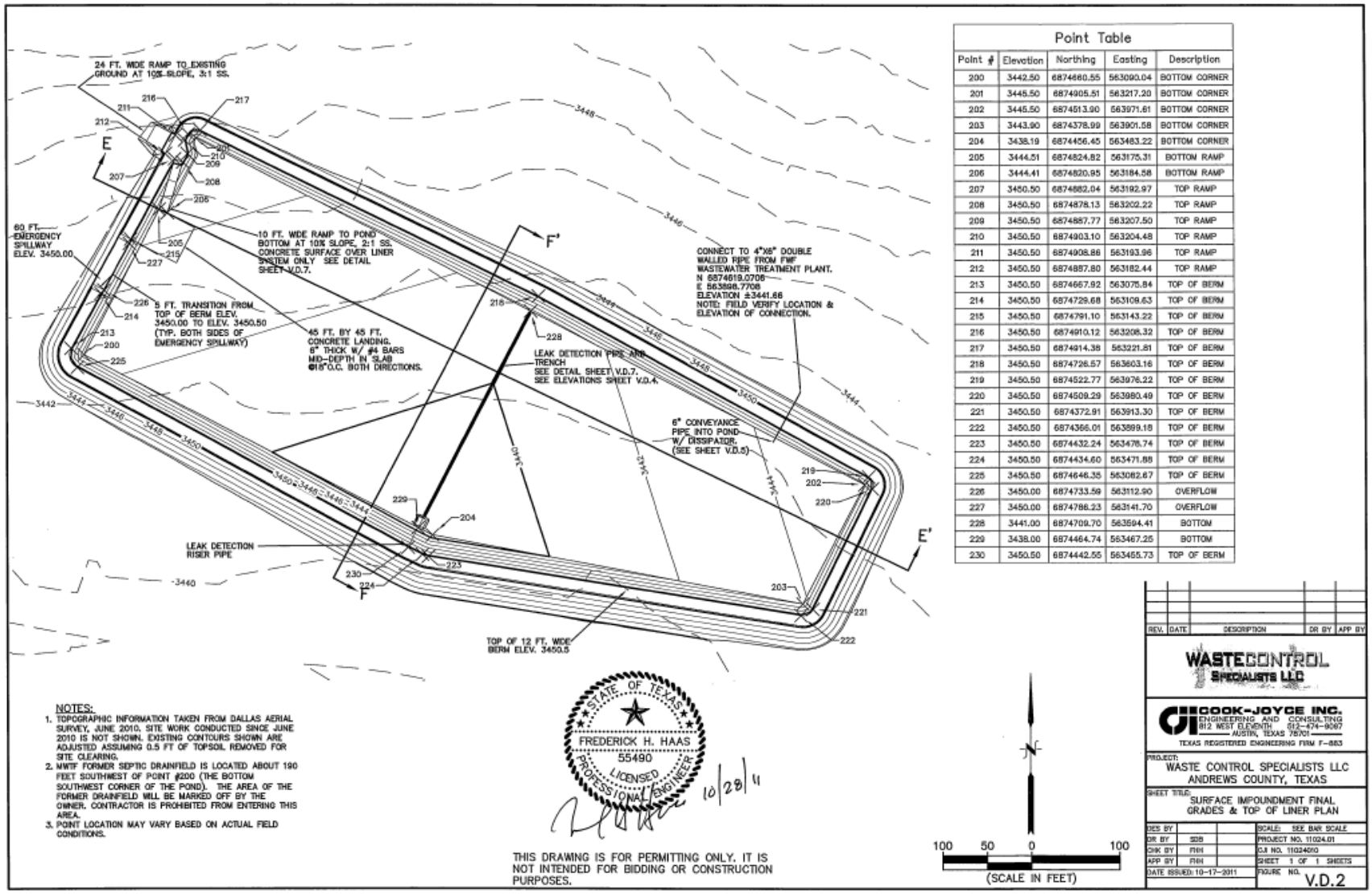
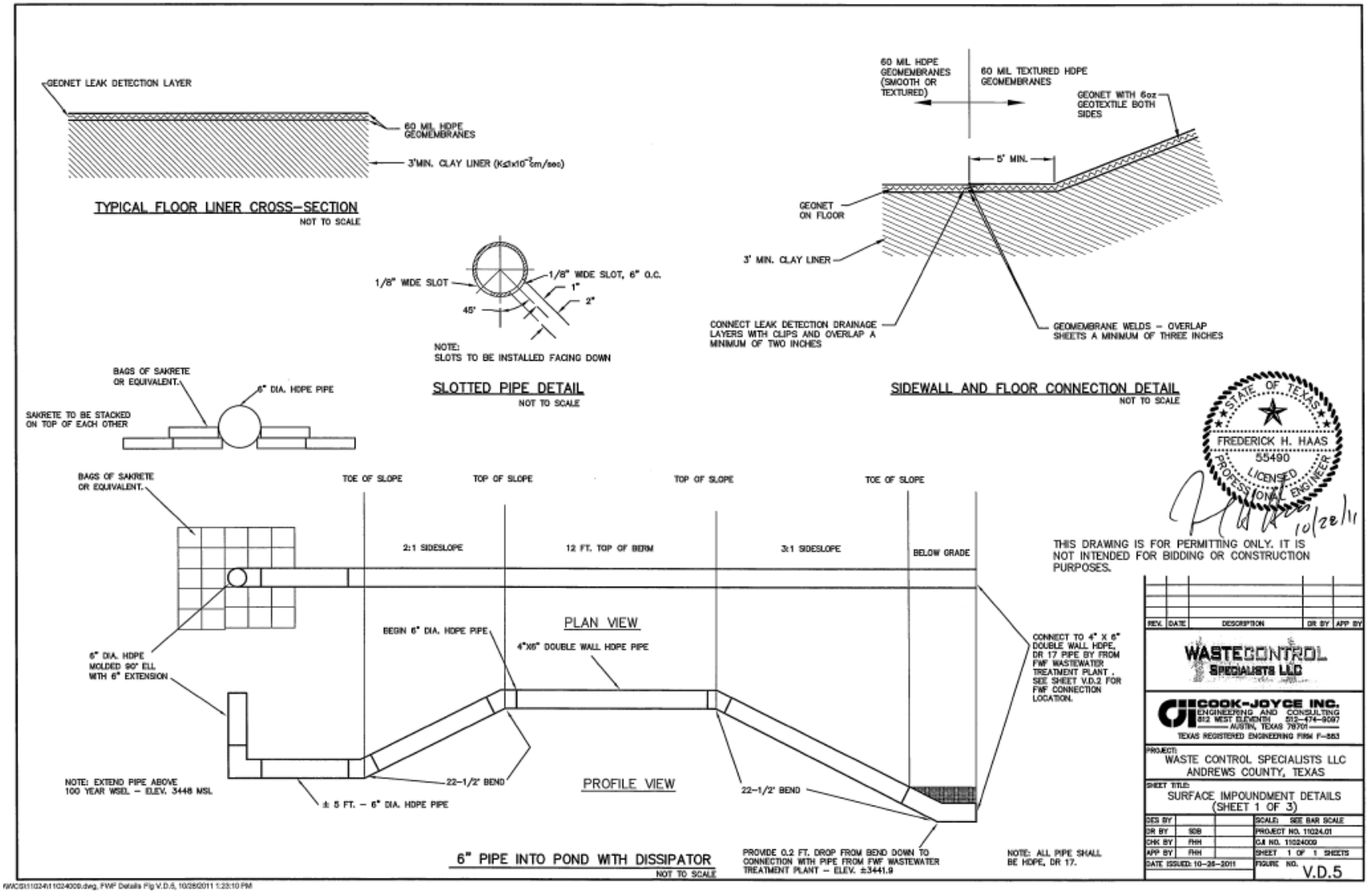


Point Table				
Point #	Elevation	Northing	Easting	Description
200	3442.50	6874660.55	563093.04	BOTTOM CORNER
201	3445.50	6874905.51	563217.20	BOTTOM CORNER
202	3445.50	6874513.90	563971.61	BOTTOM CORNER
203	3443.90	6874378.99	563901.58	BOTTOM CORNER
204	3438.19	6874456.45	563483.22	BOTTOM CORNER
205	3444.51	6874824.82	563175.31	BOTTOM RAMP
206	3444.41	6874820.95	563184.58	BOTTOM RAMP
207	3450.50	6874882.04	563192.97	TOP RAMP
208	3450.50	6874878.13	563202.22	TOP RAMP
209	3450.50	6874887.77	563207.50	TOP RAMP
210	3450.50	6874903.10	563204.48	TOP RAMP
211	3450.50	6874908.86	563193.96	TOP RAMP
212	3450.50	6874887.80	563182.44	TOP RAMP
213	3450.50	6874667.92	563075.84	TOP OF BERM
214	3450.50	6874729.68	563109.63	TOP OF BERM
215	3450.50	6874791.10	563143.22	TOP OF BERM
216	3450.50	6874910.12	563208.32	TOP OF BERM
217	3450.50	6874914.38	563221.81	TOP OF BERM
218	3450.50	6874726.57	563603.16	TOP OF BERM
219	3450.50	6874522.77	563976.22	TOP OF BERM
220	3450.50	6874509.29	563980.49	TOP OF BERM
221	3450.50	6874372.91	563913.30	TOP OF BERM
222	3450.50	6874366.01	563899.18	TOP OF BERM
223	3450.50	6874432.24	563478.74	TOP OF BERM
224	3450.50	6874434.60	563471.88	TOP OF BERM
225	3450.50	6874646.35	563082.67	TOP OF BERM
226	3450.00	6874733.59	563112.90	OVERFLOW
227	3450.00	6874788.23	563141.70	OVERFLOW
228	3441.00	6874709.70	563594.41	BOTTOM
229	3438.00	6874464.74	563467.25	BOTTOM
230	3450.50	6874442.55	563455.73	TOP OF BERM

Attachment B – Facility Maps and Drawings



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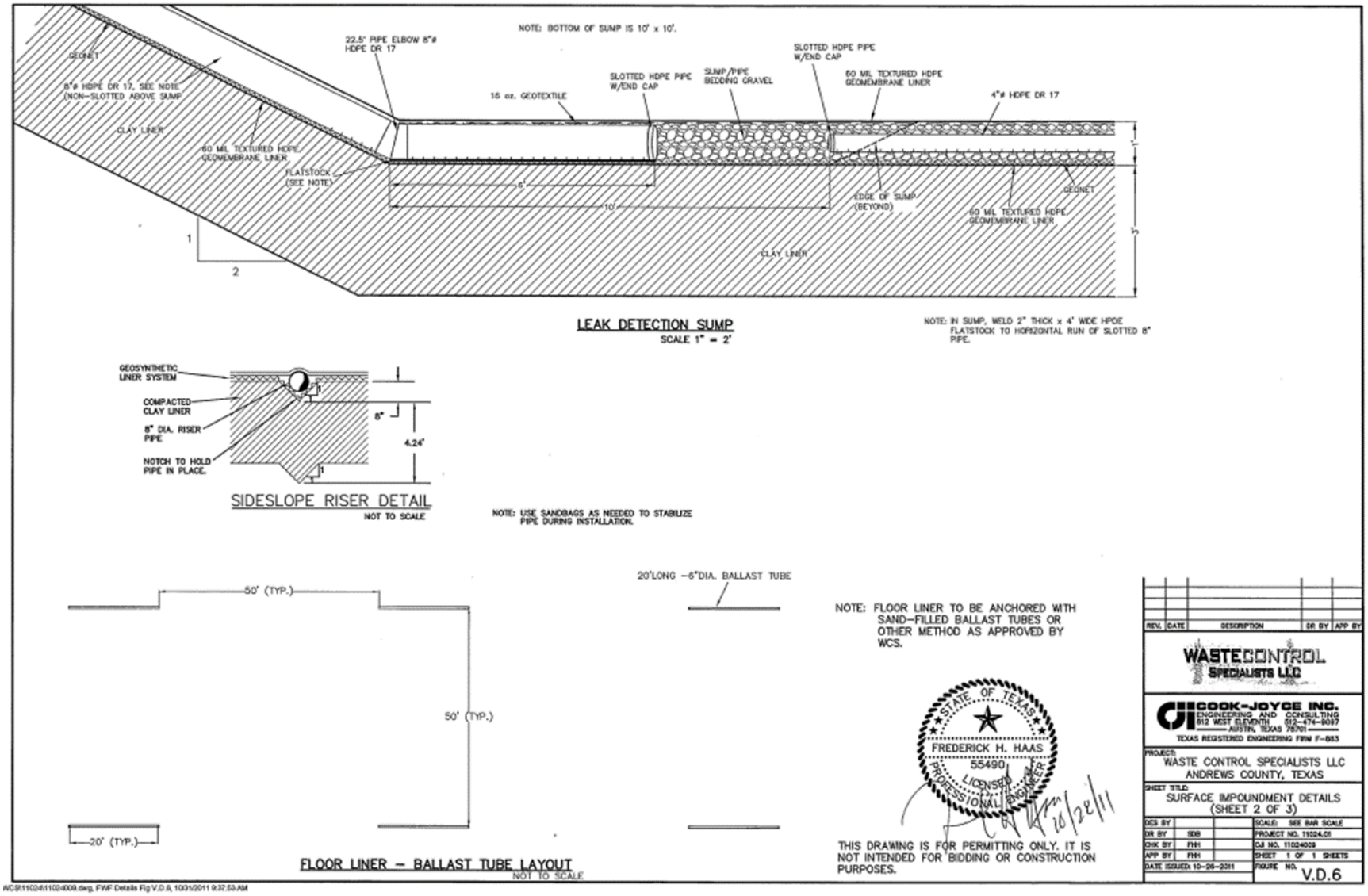

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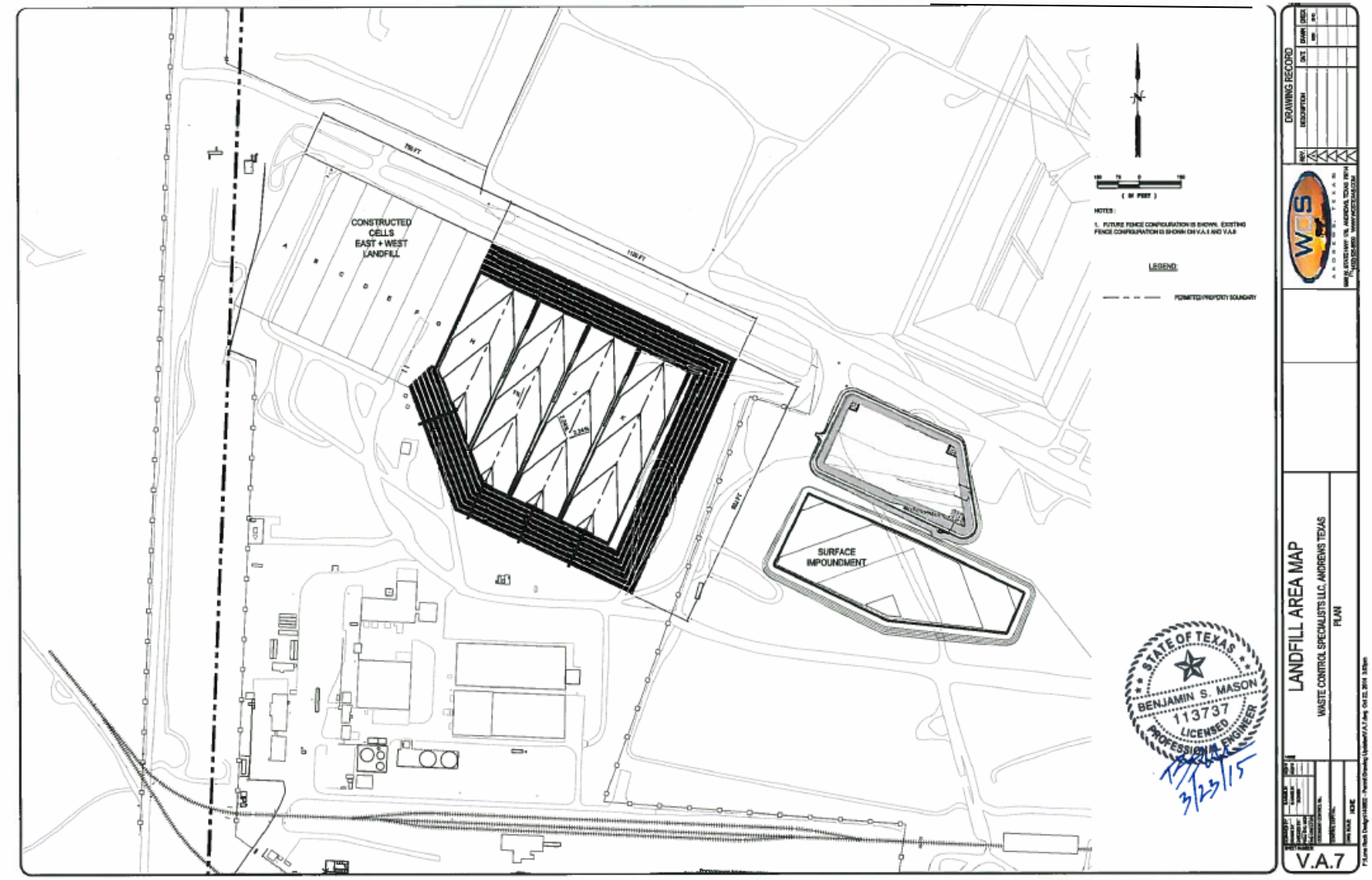

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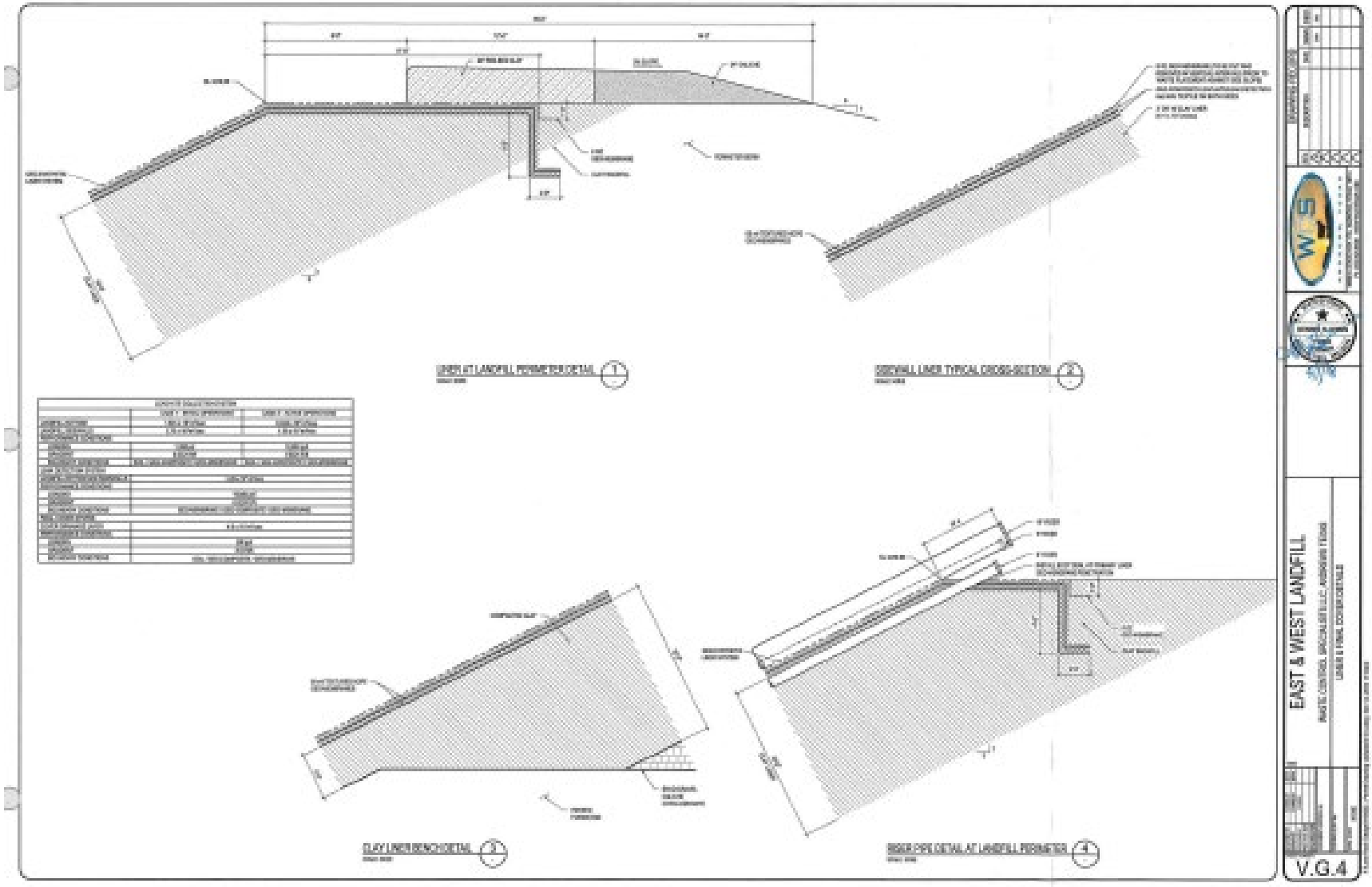

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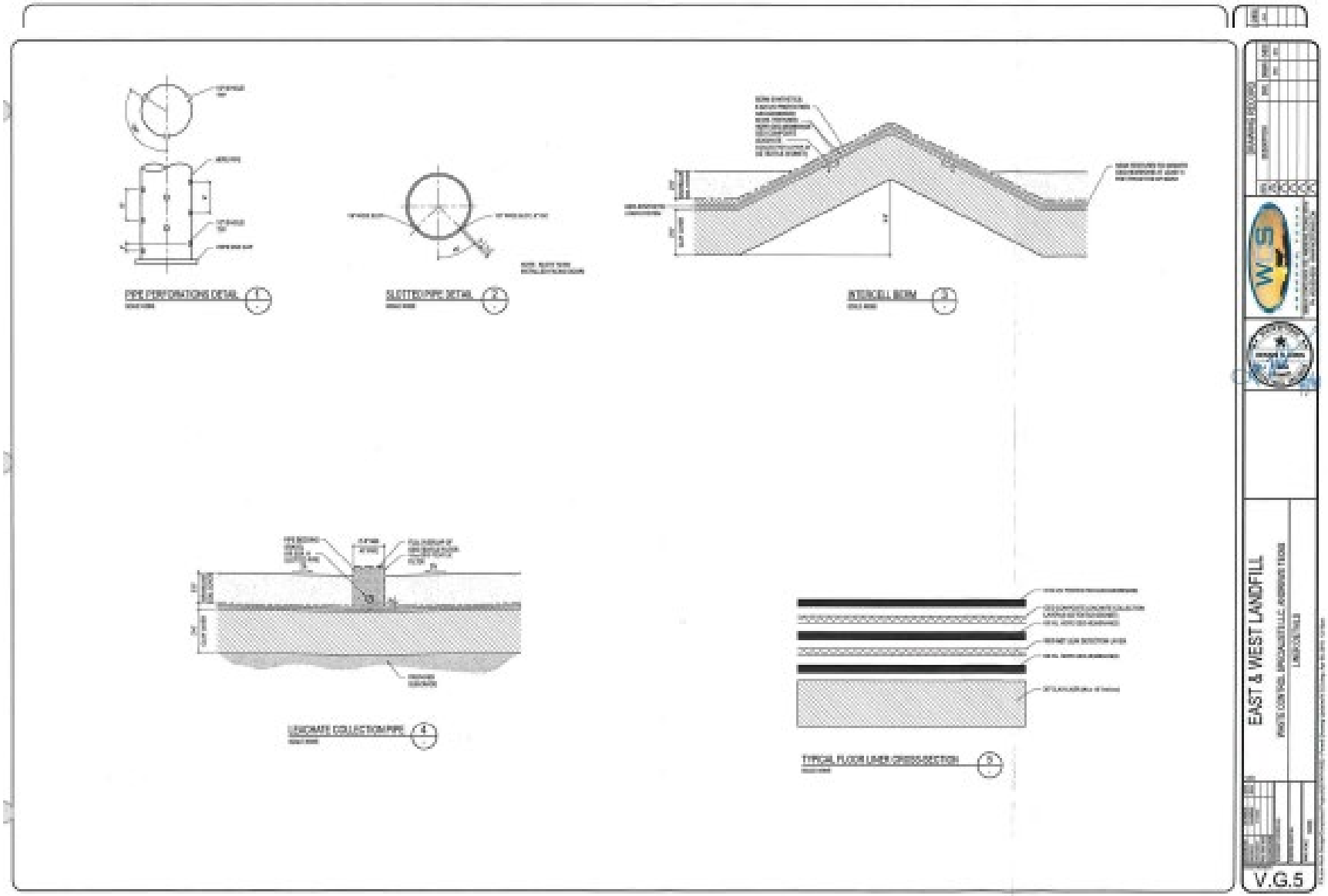

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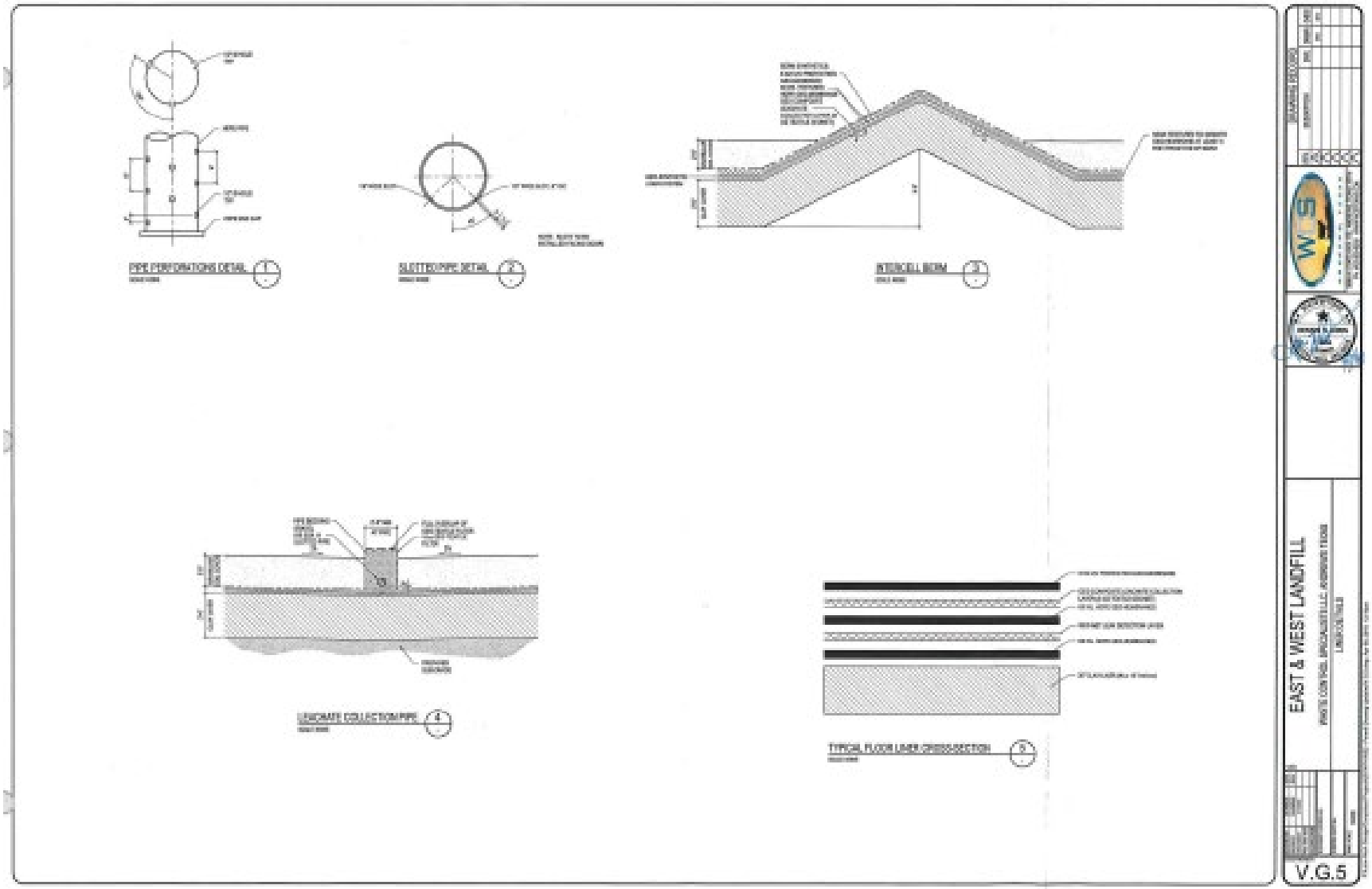

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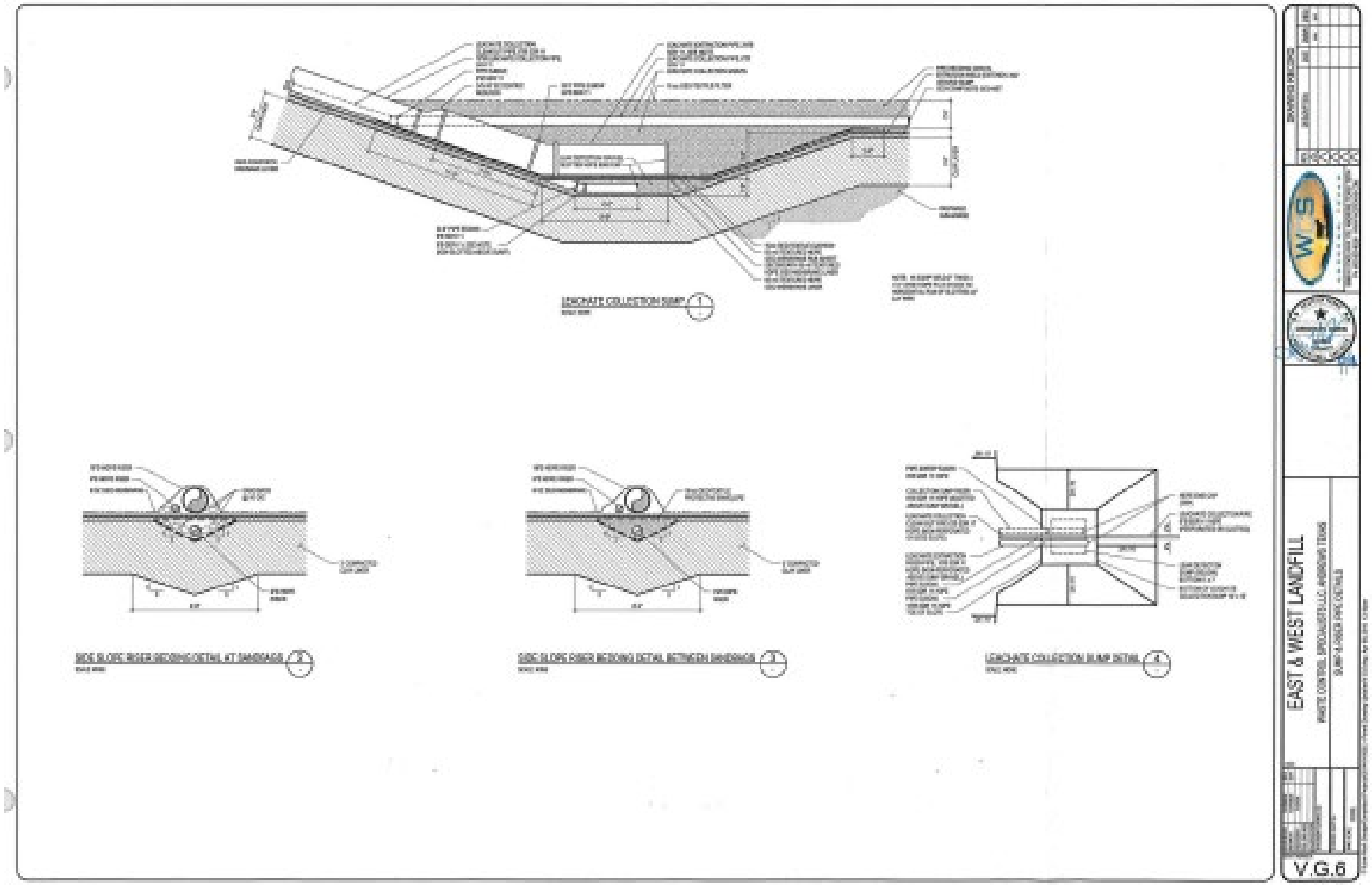


Attachment C – Permit Application Revision Chronology

Classification	Revision No.*	Application Date**	Purpose
Renewal		July 19, 2021	Issued
Class 2 Modification		June 4, 2021, and Revised July 1, 2021, and August 6, 2021	Request to add a miscellaneous unit (Geomelt Unit) on a temporary basis and to make upgrades to the permitted stabilization building.
Class 1 Modification	1	August 11, 2021	To incorporate the Class 2 modification application and a previously acknowledged Class 1 permit modification under the new permit.
Class 1 Modification	2	June 23, 2022	Administrative changes to update the status of authorized permitted unit (Geomelt Unit) from proposed to active.
Class 2 Modification	3	August 12, 2022	To place a temporary PermaCon structure and associated elements within the footprint of the permitted Bin Storage Area 1 (BSA-1).
Class 1 Modification	4	October 31, 2022, and revised November 4, 2022	To update alternate emergency coordinator information in Table III.E.2.- Emergency coordinators
Class 1 Modification	5	February 3rd, 2023, and revised February 16th, 2023	To update alternate emergency coordinator information in Table III.E.2.- Emergency coordinators
Class 1 Modification	6	May 4, 2023	Update the alternate emergency coordinator information in Table III.E.2.- Emergency coordinators and revised. Table VI.B. 3.b to add newly constructed wells SW 38, DW 38, and SW 39 DW 39
Class 1 Modification	7	April 11, 2024	Update the alternate emergency coordinator information in Table III.E.2.- Emergency coordinators.
Class 2 Modification	8	July 18, 2024, and September 5, 2024	To extend the temporary authorization for the permitted GeoMelt unit (Miscellaneous Unit) for an additional three years and update Permit Provision V.K.2.g.

Attachment D - List of Incorporated Application Materials

The following is a list of Part A and Part B Industrial & Hazardous Waste Application elements which are incorporated into all Industrial & Hazardous Waste permits by reference as per Section I.B.

TCEQ Part A Application Form

I. General Information
II. Facility Background Information
III. Wastes and Waste Management
IV. Index of Attachments

TCEQ Part B Application Form

I. General Information

A. Applicant Name
B. Facility Owner
C. Facility Contact
D. Application Type and Facility Status
E. Facility Siting Summary
F. Wastewater and Stormwater Disposition
G. Information Required to Provide Notice
H. TCEQ Core Data Form Requirements
I. Signature on Application

II. Facility Siting Criteria

A. Requirements for Storage or Processing Facilities, Land Treatment Facilities, Waste Piles, Storage Surface Impoundments, and Landfills
B. Additional Requirements for Land Treatment Facilities
C. Additional Requirements for Waste Piles
D. Additional Requirements for Storage Surface Impoundments
E. Additional Requirements for Landfills (and Surface Impoundments Closed as Landfills with Wastes in Place)
F. Flooding
G. Additional Information Requirements

III. Facility Management

A. Compliance History and Applicant Experience
B. Personnel Training Plan
C. Security
D. Inspection Schedule
E. Contingency Plan
F. Emergency Response Plan

Table III.D. - Inspection Schedule
Table III.E.1. - Arrangements with Local Authorities
Table III.E.2. - Emergency Coordinators
Table III.E.3. - Emergency Equipment

Attachment D - List of Incorporated Application Materials

IV. Wastes And Waste Analysis

A. Waste Management Information
B. Wastes Managed In Permitted Units
C. Sampling and Analytical Methods
D. Waste Analysis Plan

Table IV.A. - Waste Management Information
Table IV.B. - Wastes Managed in Permitted Units
Table IV.C. - Sampling and Analytical Methods

V. Engineering Reports

A. General Engineering Reports
B. Container Storage Areas
C. Tanks and Tank Systems
D. Surface Impoundments
E. Waste Piles - Reserved
F. Land Treatment Units - Reserved
G. Landfills
H. Incinerators - Reserved
I. Boilers and Industrial Furnaces - Reserved
J. Drip Pads - Reserved
K. Miscellaneous Units
L. Containment Buildings - Reserved

Table V.A. Facility Waste Management Handling Units
Table V.B. - Container Storage Areas
Table V.C. - Tanks and Tank Systems
Table V.D.1. - Surface Impoundments
Table V.D.6. - Surface Impoundment Liner System
Table V.G.1. - Landfills
Table V.G.3. - Landfill Liner System
Table V.G.4. - Landfill Leachate Collection System
Table V.K. - Miscellaneous Units

VI. Geology Report

A. Geology and Topography
B. Facility Groundwater
C. Exemption from Groundwater Monitoring for an Entire Facility
D. Unsaturated Zone Monitoring

Table VI.A.1. - Major Geologic Formations
Table VI.A.4. - Waste Management Area Subsurface Conditions
Table VI.B.3.b. - Unit Groundwater Detection Monitoring System
Table VI.B.3.c. - Groundwater Sample Analysis

VII. Closure And Post-Closure Plans

A. Closure
B. Closure Cost Estimate
C. Post-closure
D. Post-closure Cost Estimate
Closure and Post-Closure Cost Summary

Table VII.A. - Unit Closure

Attachment D - List of Incorporated Application Materials

Table VII.B. - Unit Closure Cost Estimate
Table VII.D. - Unit Post-Closure Cost Estimate
Table VII.E.1. - Permitted Unit Closure Cost Summary
Table VII.E.2. - Permitted Unit Post-Closure Cost Summary

VIII. Financial Assurance

A. Financial Assurance Information Requirements for all Applicants
B. Applicant Financial Disclosure Statements for a new permit, permit amendment, or permit modification, or permit renewal
C. Applicants Requesting Facility Expansion, Capacity Expansion, or New Construction

Information for Applicants Subject to Financial Capability Requirements
Table VIII. B. - Estimated Capital Costs

IX. Releases From Solid Waste Units And Corrective Action

A. Preliminary Review Checklists
For Applications for a New Hazardous Waste Permit - Resrved
For Applications for a Renewal/Amendment/Modification of an Existing Hazardous Waste Permit
Instructions for Preliminary Review Facility Checklist
Instructions for Preliminary Review Unit Checklist (Continued)
Preliminary Review Facility Checklist
Preliminary Review Unit Checklist
Appendices to Preliminary Review (PR)

X. Air Emission Standards

A. Process Vents
B. Equipment Leaks
C. Tanks, Surface Impoundments, and Containers
D. “One - Stop” Permits - Reserved

Table X.A. - Process Vents
Table X.B. - Equipment Leaks

XI. Compliance Plan - Reserved

XII Hazardous Waste Permit Application Fee

Table XII.A. – Hazardous Waste Units (For Application Fee Calculations)
Table XII.B. - Hazardous Waste Permit Application Fee Worksheet

XIII. Confidential Material

Attachment E - List of Permitted Facility Units

Authorized Permitted Units

TCEQ Permit Unit Number[1]	Unit Name	NOR No.[1]	Unit Description	Capacity	Unit Status[2]
002	East + West Landfill	002	Disposal	2,310,000 cubic yards	Active
004	Container Storage Building (Compartments 1 through 10)	004	Storage	275,000 gal (5,000 55-gal drums or equivalent)	Active
005	Bin Storage Unit 1 (Bin Storage Areas 1 through 3)	005	Storage	3510 cubic yards (not to exceed 1000 cubic yards of land disposal restricted waste)	Active
006	Bin Storage Unit 2	006	Storage	3240 cubic yards (not to exceed 2160 cubic yards of land disposal restricted waste)	Active
008.a.	Mixing Tank MT-1	015	Processing	85 cubic yards	Active
008.b.	Mixing Tank MT-2	016	Processing	85 cubic yards	Active
008.c.	Mixing Tank MT-3	017	Processing	85 cubic yards	Active
008.d.	Mixing Tank MT-4 (Constructed but not certified and managing waste)	018	Processing	85 cubic yards	Proposed
008.e	Stabilization Building Container Storage Area (North)	008	Storage	12,320 gal (224 55-gal drums or equivalent)	Active
008.f	Stabilization Building Container Storage Area (South)	008	Storage	12,320 gal (224 55-gal drums or equivalent)	Active
008.g	Waste Compactor	034	Processing	Miscellaneous Unit	Active
008.h	Geomelt		Processing	Miscellaneous Unit	Proposed
012	Contact Water Stormwater Pond	035	Processing	10,310,000 Gallons	Active

Historical Permitted Units No Longer Subject to this Permit[4]

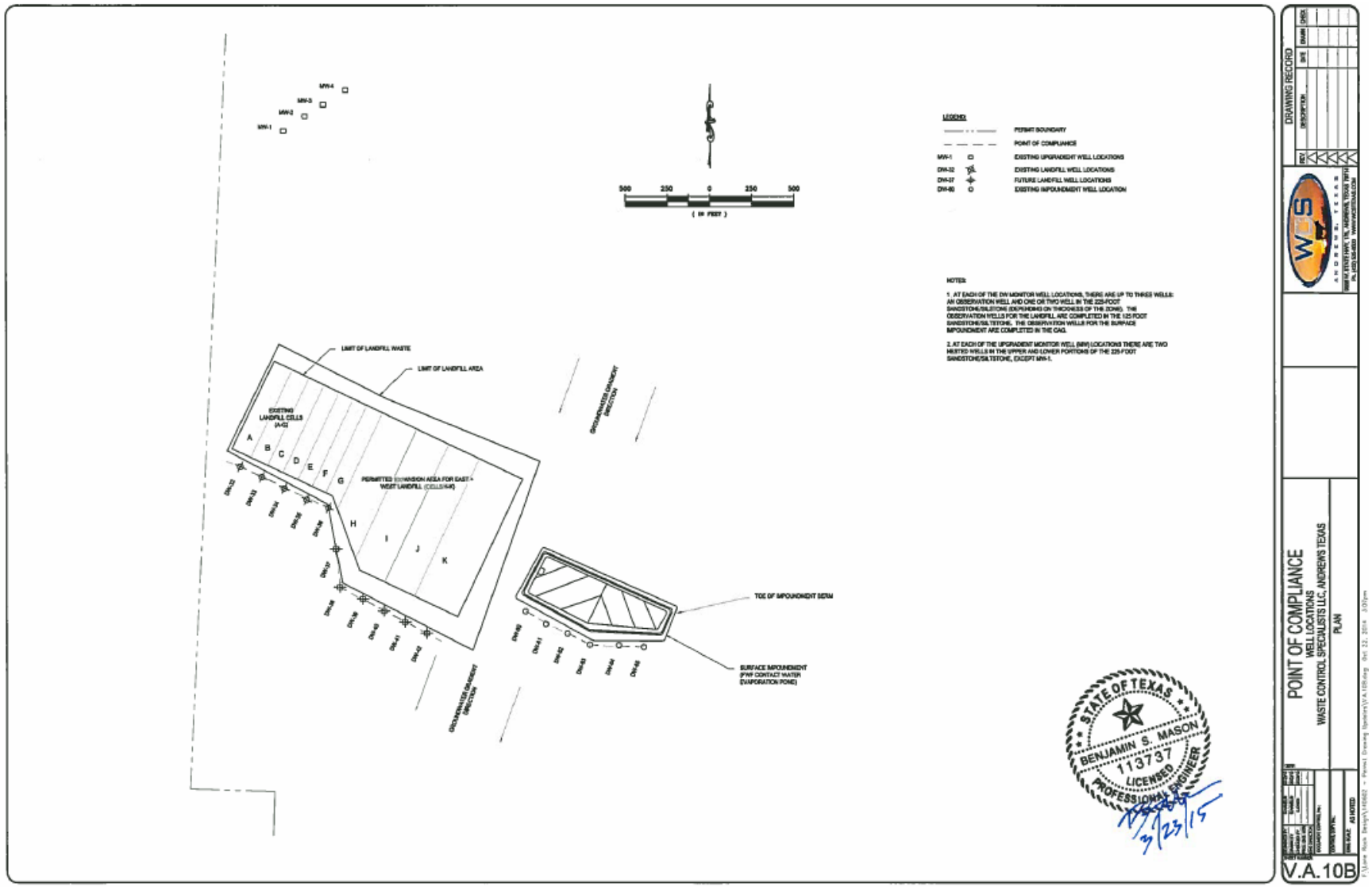
TCEQ Permit Unit No.[1]	Unit Name	NOR No.[1]	Unit Description[3]	Capacity	Unit Status[2]
001	Main Landfill	001	Landfill	10 million cubic yards	Never Built.

Attachment E - List of Permitted Facility Units

3	Condo Landfill	003	Condo landfills	637000 cubic yards	Never Built
7	Bin Storage Unit 3	007	Bin Storage Area	3240 cubic yards	Never Built, Not Seeking authorization
9	Napalm Processing / Railroad Container Unloading Area	009	Rail Road Container Unloading Area	49280 Gallons	Never Built, Not Seeking authorization
10	Railcar Bulk Waste Unloading Area	019	Railcar Bulk Waste Unloading Area	-	Closed

[1]Permitted Unit No. and NOR No. cannot be reassigned to new units or used more than once and all units that were in the Attachment D of a previously issued permit must be listed.
[2]Unit Status options: Active, Closed, Inactive (built but not managing waste), Proposed (not yet built), Never Built, Transferred, Post-Closure.
[3]If a unit has been transferred, the applicant should indicate which facility/permit it has been transferred to in the Unit Description column of Table V.A.
[4]The historical units are closed and/or no longer subject to RCRA permit requirements and are included in this table for informational purposes.

Attachment F - Maps Indicating Point of Compliance and Groundwater Monitoring Wells



Attachment G – Well Design and Construction Specifications

1. The Permittee shall use well drilling methods that minimize potential adverse effects on the quality of water samples withdrawn from the well, and that minimize or eliminate the introduction of foreign fluids into the borehole.

2. All wells constructed to meet the terms of this Permit shall be constructed such that the wells can be routinely sampled with a pump, bailer, or alternate sampling device. Piping associated with recovery wells should be fitted with sample ports or an acceptable alternative sampling method to facilitate sampling of the recovered groundwater on a well by well basis.

3. Above the saturated zone the well casing may be two (2)-inch diameter or larger schedule 40 or 80 polyvinyl chloride (PVC) rigid pipe or stainless steel or polytetrafluoroethylene (PTFE or "teflon") or an approved alternate material. The PVC casing must bear the National Sanitation Foundation logo for potable water applications (NSF-pw). Solvent cementing compounds shall not be used to bond joints and all connections shall be flush-threaded. In and below the saturated zone, the well casing shall be stainless steel or PTFE.

   The Permittee may use PVC or fiberglass reinforced resin as an alternate well casing material below the saturated zone provided that it yields samples for groundwater quality analysis that are unaffected by the well casing material.

4. The Permittee shall replace any well that has deteriorated due to incompatibility of the casing material with the groundwater contaminants or due to any other factors. Replacement of the damaged well shall be completed within ninety (90) days of the date of the inspection that identified the deterioration.

5. Well casings and screens shall be steam cleaned prior to installation to remove all oils, greases, and waxes. Well casings and screens made of fluorocarbon resins shall be cleaned by detergent washing.

6. For wells constructed after the date of issuance of this Permit, the screen length shall not exceed ten (10) feet within a given transmissive zone unless otherwise approved by the Executive Director. Screen lengths exceeding ten (10) feet may be installed in groundwater recovery or injection wells to optimize the groundwater remediation process in accordance with standard engineering practice.

7. The Permittee shall design and construct the intake portion of a well so as to allow sufficient water flow into the well for sampling purposes and to minimize the passage of formation materials into the well during pumping. The intake portion of a well shall consist of commercially manufactured stainless steel or PTFE screen or approved alternate material. The annular space between the screen and the borehole shall be filled with clean siliceous granular material (i.e., filter pack) that has a proper size gradation to provide mechanical retention of the formation sand and silt. The well screen slot size shall be compatible with the filter pack size as determined by sieve analysis data. The filter pack should extend no more than three (3) feet above the well screen. A silt trap, no greater than one (1) foot in length, may be added to the bottom of the well screen to collect any silt that may enter the well. The bottom of the well casing shall be capped with PTFE or stainless steel or approved alternate material.

Attachment G – Well Design and Construction Specifications

Groundwater recovery and injection wells shall be designed in accordance with standard engineering practice to ensure adequate well production and to accommodate ancillary equipment. Silt traps exceeding one (1) foot may be utilized to accommodate ancillary equipment. Well heads shall be fitted with mechanical wellseals, or equivalent, to prevent entry of surface water or debris.

8. A minimum of two (2) feet of pellet or granular bentonite shall immediately overlie the filter pack in the annular space between the well casing and borehole. Where the saturated zone extends above the filter pack, pellet or granular bentonite shall be used to seal the annulus. The bentonite shall be allowed to settle and hydrate for a sufficient amount of time prior to placement of grout in the annular space. Above the minimum two (2)-foot thick bentonite seal, the annular space shall be sealed with a cement/bentonite grout mixture. The grout shall be placed in the annular space by means of a tremie pipe or pressure grouting methods equivalent to tremie grouting standards.

   The cement/bentonite grout mixture or TCEQ approved alternative grout mixture shall fill the annular space to within two (2) feet of the surface. A suitable amount of time shall be allowed for settling to occur. The annular space shall be sealed with concrete, blending into a cement apron at the surface that extends at least two (2) feet from the outer edge of the monitor well borehole for above-ground completions. Alternative annular-space seal material may be proposed with justification and must be approved by the Executive Director prior to installation.

   In cases where flush-to-ground completions are unavoidable, a protective structure such as a utility vault or meter box should be installed around the well casing and the concrete pad design should prevent infiltration of water into the vault. In addition, the Permittee must ensure that 1) the well/cap juncture is watertight; 2) the bond between the cement surface seal and the protective structure is watertight; and 3) the protective structure with a steel lid or manhole cover has a rubber seal or gasket.

9. Water added as a drilling fluid to a well shall contain no bacteriological or chemical constituents that could interfere with the formation or with the chemical constituents being monitored. For groundwater recovery and injection wells, drilling fluids containing freshwater and treatment agents may be utilized in accordance with standard engineering practice to facilitate proper well installation. In these cases, the water and agents added should be chemically analyzed to evaluate their potential impact on in-situ water quality and to assess the potential for formation damage. All such additives shall be removed to the extent practicable during well development.

10. Upon completion of installation of a well, the well must be developed to remove any fluids used during well drilling and to remove fines from the formation to provide a particulate-free discharge to the extent achievable by accepted completion methods and by commercially available well screens. Development shall be accomplished by reversing flow direction, surging the well or by air lift procedures. No fluids other than formation water shall be added during development of a well unless the aquifer to be screened is a low-yielding water-bearing aquifer. In these cases, the water to be added should be chemically analyzed to evaluate its potential impact on in-situ water quality, and to assess the potential for formation damage.

Attachment G – Well Design and Construction Specifications

For recovery and injection wells, well development methods may be utilized in accordance with standard engineering practice to remove fines and maximize well efficiency and specific capacity. Addition of freshwater and treatment agents may be utilized during well development or re-development to remove drilling fluids, inorganic scale or bacterial slime. In these cases, the water and agents added should be chemically analyzed to evaluate their potential impact on in-situ water quality and to assess the potential for formation damage. All such additives shall be removed to the extent practicable during well development.

11. Each well shall be secured and/or designed to maintain the integrity of the well borehole and groundwater.

12. The Permittee shall protect the above-ground portion of the well by bumper guards and/or metal outer casing protection.

13. Copies of drilling and construction details demonstrating compliance with the items of this provision shall be kept on site. This record shall include the following information:

- name/number of well (well designation);
- intended use of the well(sampling, recovery, etc.);
- date/time of construction;
- drilling method and drilling fluid used;
- well location (+ 0.5 ft.);
- bore hole diameter and well casing diameter;
- well depth (+ 0.1 ft.);
- drilling and lithologic logs;
- depth to first saturated zone;
- casing materials;
- screen materials and design;
- casing and screen joint type;
- screen slot size/length;
- filter pack material/size;
- filter pack volume (how many bags, buckets, etc.);
- filter pack placement method;
- sealant materials;
- sealant volume (how many bags, buckets, etc.);
- sealant placement method;
- surface seal design/construction;
- well development procedure;
- type of protective well cap;
- ground surface elevation (+ 0.01 ft. MSL);
- top of casing elevation (+ 0.01 ft. MSL); and,
- detailed drawing of well (include dimensions).

14. The Permittee shall complete construction or abandonment and plugging of each well in accordance with the requirements of this Permit and 16 TAC 76.100 through 76.109 and shall certify such proper construction or abandonment within sixty (60) days of installation or abandonment. If the Permittee installs any additional or replacement wells, well completion logs for each well shall be submitted within sixty (60) days of well completion and development in accordance with 16 TAC Chapter 76. Certification of each well shall be submitted within sixty (60) days of installation for an individual well

Attachment G – Well Design and Construction Specifications

project or within sixty (60) days from the date of completion of a multiple well installation project. The certification shall be prepared by a qualified geologist or geotechnical engineer. For each well drilled, deepened, or altered submit a copy of the State of Texas Well Report in accordance with 16 TAC 76.70. Each well certification shall be accompanied by a certification report, including an accurate log of the soil boring, which thoroughly describes and depicts the location, elevations, material specifications, construction details, and soil conditions encountered in the boring for the well. A copy of the certification and certification report shall be kept on-site, and a second copy shall be submitted to the Executive Director. Required certification shall be in the following form:

This is to certify that installation (or abandonment and plugging) of the following facility components authorized or required by TCEQ Permit No. 50358 has been completed, and that construction (or plugging) of said components has been performed in accordance with and in compliance with the design and construction specifications of Permit No. 50358." (Description of facility components with reference to applicable permit provisions).

15. The Permittee shall clearly mark and maintain the well number on each well at the site.

16. The Permittee shall measure and keep a record of the elevation of the top of each well casing in feet above mean sea level to the nearest 0.01 foot and permanently mark the measuring point on the well. The Permittee shall compare old and new elevations from previously surveyed wells and determine a frequency of surveying not to exceed five (5) year intervals.

17. Wells may be replaced at any time the Permittee or Executive Director determines that the well integrity or materials of construction or well placement no longer enable the well to yield samples representative of groundwater quality.

18. The Permittee shall plug soil test borings and wells removed from service after issuance of the Compliance Plan with a cement/bentonite grout mixture so as to prevent the preferential migration of fluids in the area of the borehole. Certification of each plugging shall be reported in accordance with Provision 14 of this attachment to this permit. The plugging of wells shall be in accordance with 16 TAC § 76.100 through § 76.109 dealing with Well Drilling, Completion, Capping and Plugging.

19. A well's screened interval shall be appropriately designed and installed to meet the well's specific objective (i.e., either DNAPL, LNAPL, both, or other objective of the well). All wells designed to detect, monitor, or recover DNAPL must be drilled to intercept the bottom confining layer of the aquifer. The screened interval to detect DNAPL should extend from the top of the lower confining layer to above the portion of the aquifer saturated with DNAPL. The screened interval for all wells designed to detect, monitor, or recover LNAPL must extend high enough into the vadose zone to provide for fluctuations in the seasonal water table. In addition, the sandpacks for the recovery or monitoring well's screened interval shall be coarser than surrounding media to ensure the movement of NAPL to the well.

Texas Commission on Environmental Quality

Class 2 and Class 1 Permit Modifications

Permittee Name	Waste Control Specialists LLC	**Hazardous Waste Permit No.**	50358
City	Andrews	**County**	Andrews
Customer No.	CN600616890	**Solid Waste Registration No.**	50358
Regulated Entity No.	RN101702439	**EPA Identification No.**	TXD988088464
Application Date*	Class 2 Modification: June 4,2021 and revised July 1, 2021 and August 6, 2021. Class 1 Modification: August 11, 2021.	**Application Received Date**	Class 2 Modification June 4, 2021 and revised July 1, 2021 and August 6, 2021. Class 1 Modification August 11, 2021
Request	Class 2 and Class 1 Modifications	**Tracking Nos.**	26144639, 26322160

The above permit is modified as follows:

Continuation Sheet 7 of 57

Section I.B. Incorporated Application Materials

Incorporate the application dated above and its subsequent revisions, as included in the attached Attachment C – Permit Application Revision Chronology into this permit.

Continuation Sheet 34 of 57

Section V. K. Miscellaneous Units

Section V.K. is revised to add Provision V.K.2.

2. The permittee shall construct and operate Geomelt Unit on a temporary basis for processing wastes as identified in Table V.K. - Miscellaneous Units subject to the limitations contained herein.

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* Part B signature page

a. The permittee shall not process wastes in the Geomelt unit if they could cause the unit, its ancillary equipment, or a containment system to rupture, leak, corrode, or otherwise fail. [40 CFR 264.601]

b. The permittee shall not place ignitable or reactive waste in the Geomelt unit or in the secondary containment system, unless the procedures specified in 40 CFR 264.17 are followed.

c. The permittee shall not place incompatible wastes and materials in the same unit or the same secondary containment system unless the procedures specified in 40 CFR 264.17 are met.

d. The permittee shall inspect the Geomelt unit in accordance with the frequency listed in Table III.D.- Inspection Schedule, to ensure that the unit is maintained in good functional condition, as required by 40 CFR 264.602.

e. The permittee shall comply with the applicable requirements of 40 CFR 264 Subpart X-Miscellaneous Units for construction, installation, and operation of Geomelt.

f. Where applicable, the permittee shall comply with the applicable requirements specified in Radioactive Materials License R04100 for construction, installation, and operations of the Geomelt unit. Where in conflict, the conditions listed in the Radioactive Materials License R04100 take precedence over the conditions listed in this permit for construction, installation, and operation of the Geomelt unit.

g. The permittee shall be authorized to operate the Geomelt unit for a period not to exceed three years starting from the date of the inspection or notice of new construction/operation pursuant to Provision II.A.6.c. The permittee may submit a permit modification to extend the authorization period.

Continuation Sheet 47 of 57

Section VII.B. Financial Assurance for Closure

Section VII.B. is revised to update financial assurance.

B. Financial Assurance for Closure

1. The permittee shall provide financial assurance for closure of all existing permitted units covered by this permit in an amount not less than $16,304,963 (2018 dollars) as shown on Table VII.E.1. - Permitted Unit Closure Cost Summary. Financial assurance shall be secured and maintained in compliance with 30 TAC Chapter 37, Subchapter P; and 30 TAC Section 335.179. Financial assurance is subject to the following:

Continuation Sheet 47 of 57

Section VII.C. Storage, Processing, and Combustion Unit Closure Requirements

Section VII.C is revised to add Miscellaneous Unit 8.h.

The permittee shall close the storage, processing, and combustion unit(s) identified as TCEQ Permit Unit Nos 4, 5, 6, 8.a, 8.b, 8.c, 8.d, 8.e, 8.f, 8.g, 8.h, in accordance with the approved Closure Plans, 40 CFR Part 264, Subpart G, 40 CFR 264.178 (container storage), 264.197 (tanks), 264.601 (miscellaneous units), the Texas Risk Reduction Program of 30 TAC Chapter 350 and the following requirements.

If all contaminated soils cannot be removed or decontaminated to TRRP Remedy Standard A (RSA), the permittee shall close the tank system and perform post-closure care in accordance with the closure and post-closure requirements for landfills, 30 TAC Section 335.152(a)(5) and 30 TAC Chapter 350, Subchapter B. A Contingent Closure and Post-Closure Plan must be submitted no later than sixty (60) days (Closure Plan) or ninety (90) days (Post-Closure Care Plan) from the date that the permittee or the Executive Director determines that the hazardous waste management unit must be closed as a landfill, subject to the requirements of 30 TAC Section 335.174, or no later than sixty (60) days (Closure Plan) from that date if the determination is made during partial or final closure. Within sixty (60) days of determining that the tank system must be closed as a landfill, the permittee shall submit a permit modification for closure and post-closure as a landfill.

Table III.D. - Inspection Schedule

Table III.D. is revised to include inspection requirements for Geomelt Unit.

Table V.K. - Miscellaneous Units

Table V.K. is revised to include Geomelt Unit.

Table VII.E.1. - Permitted Unit Closure Cost Summary

Table VII.E.1. is revised to include closure cost for the Geomelt Unit.

Attachment B - **Facility Maps and Drawings**

Attachment B (Page 6 of 14) is revised to update Stabilization Building Layout

Attachment C - Permit Application Revision Chronology

Attachment C is revised to update the chronology for the permit modifications.

Attachment E - List of Permitted Facility Units

Attachment E is revised to add Geomelt Unit (permit unit 8.h.)

This Class 2 Permit and Class 1 Modifications are part of Permit No. 50358 and should be attached thereto.

Issued Date: August 26, 2021

For the Commission

Texas Commission on Environmental Quality

Class 1 Permit Modification

Permittee Name	Waste Control Specialists LLC*	**Hazardous Waste Permit No.**	50358
City	Andrews	**County**	Andrews
Customer No.	CN600616890	**Solid Waste Registration No.**	50358
Regulated Entity No.	RN101702439	**EPA Identification No.**	TXD988088464
Application Date	June 23, 2022	**Application Received Date**	June 23, 2022
Request	Class 1 Modification	**Tracking No.**	27637576

Please note that notice of this modification request must be made per the requirements of Title 30 Texas Administrative Code Sections 39.403 and 305.69(b)(1)(B) within 90 days after the change is put into effect.

The above permit is modified as follows:

Continuation Sheet 7 of 57

Section I.B. Incorporated Application Materials

Incorporate the application dated above and its subsequent revisions, as included in the attached Attachment C – Permit Application Revision Chronology into this permit.

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.

Acknowledged Date: June 30, 2022

*Department of Energy, Co-Operator for Compartments 6, 7, 8, and 9 of the Container Storage Building

Texas Commission on Environmental Quality

Class 2 Permit Modification

Permittee Name	Waste Control Specialists LLC	**Hazardous Waste Permit No.**	50358
City	Andrews	**County**	Andrews
Customer No.	CN600616890	**Solid Waste Registration No.**	50358
Regulated Entity No.	RN101702439	**EPA Identification No.**	TXD988088464
Application Date	August 12, 2022	**Application Received Date**	August 12, 2022
Request	Class 2 Modification	**Tracking No.**	27753717

*Department of Energy, Co-Operator for Compartments 6, 7, 8, and 9 of the Container Storage Building

The above permit is modified as follows:

Continuation Sheet 7 of 57

Section I.B. Incorporated Application Materials

Incorporate the application dated above and its subsequent revisions, as included in the attached Attachment C – Permit Application Revision Chronology into this permit.

Permit Tables:

Table III.D. - Inspection Schedule

Replace existing Table III.D. with the revised Table III.D

This Class 2 Permit Modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: October 27, 2022

For the Commission

Texas Commission on Environmental Quality

Class 1 Permit Modification

Permittee Name	Waste Control Specialists LLC*	**Hazardous Waste Permit No.**	50358
City	Andrews	**County**	Andrews
Customer No.	CN600616890	**Solid Waste Registration No.**	50358
Regulated Entity No.	RN101702439	**EPA Identification No.**	TXD988088464
Application Date	October 31, 2022	**Application Received Date**	November 1, 2022
Request	Class 1 Permit Modification	**Tracking No.**	27953623

*Department of Energy, Co-Operator for Compartments 6, 7, 8, and 9 of the Container Storage Building

Please note that notice of this modification request must be made per the requirements of Title 30 Texas Administrative Code Sections 39.403 and 305.69(b)(1)(B) within 90 days after the change is put into effect.

The above permit is modified as follows:

Continuation Sheet 7 of 57

Section I.B. Incorporated Application Materials

Incorporate the application dated above and its subsequent revisions, as included in the attached Attachment C – Permit Application Revision Chronology into this permit.

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.

Acknowledged Date:

Texas Commission on Environmental Quality

Class 1 Permit Modification

Permittee Name	Waste Control Specialists LLC	**Hazardous Waste Permit No.**	50358
City	Andrews	**County**	Andrews
Customer No.	CN600616890	**Solid Waste Registration No.**	50358
Regulated Entity No.	RN101702439	**EPA Identification No.**	TXD988088464
Application Date	February 2nd, 2023	**Application Received Date**	February 3rd, 2023
Request	Class 1 Permit Modification	**Tracking No.**	28275098

*Department of Energy, Co-Operator for Compartments 6, 7, 8, and 9 of the Container Storage Building

Please note that notice of this modification request must be made per the requirements of Title 30 Texas Administrative Code Sections 39.403 and 305.69(b)(1)(B) within 90 days after the change is put into effect.

The above permit is modified as follows:

Continuation Sheet 7 of 57

Section I.B. Incorporated Application Materials

Incorporate the application dated above and its subsequent revisions, as included in the attached Attachment C – Permit Application Revision Chronology into this permit.

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.

Acknowledged Date: **3/13/2023**

Texas Commission on Environmental Quality

Class 1 Permit Modification

Permittee Name	Waste Control Specialists LLC	**Hazardous Waste Permit No.**	50358
City	Andrews	**County**	Andrews
Customer No.	CN600616890	**Solid Waste Registration No.**	50358
Regulated Entity No.	RN101702439	**EPA Identification No.**	TXD988088464
Application Date	May 4, 2023	**Application Received Date**	May 4, 2023
Request	Class 1 Permit Modification	**Tracking No.**	28588013

Please note that notice of this modification request must be made per the requirements of Title 30 Texas Administrative Code Sections 39.403 and 305.69(b)(1)(B) within 90 days after the change is put into effect.

The above permit is modified as follows:

Continuation Sheet 7 of 57

Section I.B. Incorporated Application Materials

Incorporate the application dated above and its subsequent revisions, as included in the attached Attachment C – Permit Application Revision Chronology into this permit.

Tables

Table VI.B.3.b. – Unit Groundwater Detection Monitoring System replaced with revised Table Table VI.B.3.b. - Unit Groundwater Detection Monitoring System (attached).

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.

Acknowledged Date: June 05, 2023.

Texas Commission on Environmental Quality

Class 1 Permit Modification

Permittee Name	Waste Control Specialists LLC	**Hazardous Waste Permit No.**	50358
City	Andrews	**County**	Andrews
Customer No.	CN600616890	**Solid Waste Registration No.**	50358
Regulated Entity No.	RN101702439	**EPA Identification No.**	TXD988088464
Application Date	April 11, 2024	**Application Received Date**	April 11, 2024
Request	Class 1 Permit Modification	**Tracking No.**	29721987

Please note that notice of this modification request must be made per the requirements of Title 30 Texas Administrative Code Sections 39.403 and 305.69(b)(1)(B) within 90 days after the change is put into effect.

The above permit is modified as follows:

Continuation Sheet 7 of 57

Section I.B. Incorporated Application Materials

Incorporate the application dated above and its subsequent revisions, as included in the attached Attachment C – Permit Application Revision Chronology into this permit.

This Class 1 Permit Modification is part of Permit No. 50358 and should be attached thereto.

Acknowledged Date: May 21, 2024.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 10, 2024

Mr. Jay Cartwright
RSO/ESH Director
Waste Control Specialists LLC
P.O. Box 1129
Andrews, Texas 79714

Re: Transmittal of Final Draft Class 2 Permit Modifications
Waste Control Specialists LLC, Andrews County
Hazardous Waste Permit No. 50358
Industrial Solid Waste Registration No. 50358
EPA Identification No. TXD988088464
Tracking No. 29951241; RN101702439/CN600616890

Dear Mr. Cartwright:

Enclosed is a signed copy of the above-referenced Class 2 permit modification issued pursuant to the Texas Health and Safety Code, Chapter 361, in response to your application dated July 18, 2024, and revised September 5, 2024.

This action is taken under authority delegated to the executive director of the Texas Commission on Environmental Quality.

If you have any questions regarding modification, please contact Ms. Marites Johnston at (512) 239-6680 or by email at marites.johnston@tceq.texas.gov. If you respond in writing, please include mail code MC 130 in the mailing address.

Sincerely,

Martin Torres, Section Manager
Industrial and Hazardous Waste Permits Section
Waste Permits Division

MT/MSJ/mc

Enclosure

Texas Commission on Environmental Quality

Class 2 Permit Modification

Permittee Name	Waste Control Specialists LLC	**Hazardous Waste Permit No.**	50358
City	Andrews	**County**	Andrews
Customer No.	CN600616890	**Solid Waste Registration No.**	50358
Regulated Entity No.	RN101702439	**EPA Identification No.**	TXD988088464
Application Date	July 18, 2024	**Application Received Date**	July 18, 2024 Revised September 5, 2024
Request	Class 2 Modification	**Tracking No.**	29951241

The above permit is modified as follows:

Continuation Sheet 7 of 57

Section I.B. Incorporated Application Materials

Incorporate the application dated above and its subsequent revisions, as included in the attached Attachment C – Permit Application Revision Chronology, into this permit.

Continuation Sheet 34 of 57

Section V. K. Miscellaneous Units

Permit Provision V.K.2.g. is revised as follows

g. The permittee is authorized to operate the Geomelt unit for a period not exceeding six years, starting from the date of the inspection or notice of new construction/operation pursuant to Provision II.A.6.c. To extend the authorization beyond six years or to permanently authorize the Geomelt unit, the permittee must submit a permit modification at least 180 days prior to the expiration of the current authorization. The existing authorization for the Geomelt unit will remain in full force and effect and will not expire until the commission takes final action on the modification application.

This Class 2 Permit Modification is part of Permit No. 50358 and should be attached thereto.

Issued Date: October 3, 2024

K Keel

For the Commission

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Notice of Class 2 Modification in Accordance with 30 Texas Administrative Code, Sections 39.403 and 305.69(c)

On October 3, 2024, the executive director of the Texas Commission on Environmental Quality (TCEQ) signed a Class 2 modification for Waste Control Specialists LLC, Industrial and Hazardous Waste Permit No. 50358, in accordance with 30 Texas Administrative Code Sections 39.403 and 305.69(c). Waste Control Specialists LLC currently operates an existing commercial hazardous waste facility, and this modification authorizes a request to extend the temporary authorization for the permitted GeoMelt unit for an additional three years and to update Permit Provision V.K.2.g. The facility is located at 9998 West State Highway 176, Andrews, Texas 70714. The following link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice: https://arcg.is/0yq4G4. For the exact location, refer to the application.

Further information concerning the modification can be obtained by contacting Ms. Marites Johnston, Mail Code 130, Waste Permits Division - Industrial and Hazardous Waste Permits Section, TCEQ, P.O. Box 13087, Austin, Texas 78711-3087. Individual members of the public who wish to inquire about the information contained in this notice or to inquire about other agency permit applications or permitting processes should call the TCEQ Public Education Program, Toll-Free at 1-800-687-4040.

Issued: October 3, 2024

K Keel

For the Commission