

REQUEST FOR PROPOSALS (RFP)

SANDOVAL COUNTY

Landfill Operation Services



RFP# FY23-SCPW-03

Release Date: December 21, 2022

Due Date: March 21, 2023 at 3:00 p.m. MST

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List of Exhibits

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| A | Acknowledgement of Receipt Form |
| B | Letter of Transmittal Form |
| C | Representations and Certifications Campaign Contribution Disclosure Form Conflict of Interest Affidavit Form Related Party Disclosure Form Debarment Certification Form Affidavit of Non-Collusion Form |
| D | Engineering Plans: 2015 Application for Permit |
| E | Monthly Waste Receipt Records: 2018 – 2021 |
| F | Closure/Post-Closure Plan: 2015 Application for Permit |
| G | Plan of Operations: 2015 Application for Permit (Updated January 2019) |
| H | Sample Contract |
| I | Annual Reports (2018-2021) |

1.0 PROJECT SUMMARY

1.1 General

The Sandoval County Public Works Department (“the County”) desires to retain the services of a Contractor that is qualified to provide the landfill operation services listed in this RFP for the Sandoval County Landfill (SCLF). With the exception of Alternative C, the County will continue to own the assets which includes the land, the capital improvements, and the permit. The County provides reserve funds for future cell development; and for financial assurance (i.e., closure, post-closure, and Phase I/Phase II Assessment), as approved by the New Mexico Environment Department (NMED). The Contractor will operate the site on a cost per ton basis for solid waste accepted at the Sandoval County Landfill. Tipping fees for all waste accepted at the Sandoval County Landfill are set by the County.

As described in Sections 3.0 (Proposal Procedures) and 4.0 (Proposal Evaluation), Contractors are required to submit two separate responses to this RFP; the Technical Proposal and the Cost Proposal for each of the three (3) alternatives (i.e., Alternative A, B, and C). The Technical Proposal focuses on the Contractor’s qualifications and capabilities; and the Contractor’s Technical Proposal must receive a minimum passing score of 80 in order to be considered for the Project. Only if a passing score is awarded will the Contractor’s Cost Proposal be opened for consideration. Selection will be based on both the Technical Proposal criteria and the Cost Proposal factors at the discretion of the County.

A committee comprised of Sandoval County Officials and advisory staff will evaluate Proposals received in response to this RFP. The committee may conduct interviews with and may require public presentation(s) from Contractors applying for selection regarding their qualifications, approach to the project and ability to provide the required services. Following interviews, (if conducted), the committee shall select the top-ranked firm for recommendation to the County.

The selection results will be presented to Sandoval County Public Works Department for their consideration and approval. The County will enter into Contract negotiations with the top-ranked firm; and will award or reject the Contractor’s final Proposal. In the event that the top-ranked Contractor’s final Proposal is rejected, negotiations will be conducted with the second-ranked Contractor. The County reserves the right to accept any Proposal deemed most advantageous for Landfill Operations Services; and to reject any and/or all Proposals.

Table 1.1 - Procurement Timeline

| | |
|---|-------------------|
| 1. Sandoval County Authorization of RFP | December 13, 2022 |
| 2. Advertisement of RFP | December 21, 2022 |
| 3. Pre-Proposal Meeting (Mandatory) | January 20, 2023 |
| 4. Last Day to Submit Questions/Request for Clarification | March 6, 2023 |
| 5. Addendum/Response to Questions | March 13, 2023 |
| 6. Proposal Due Date | March 21, 2023 |

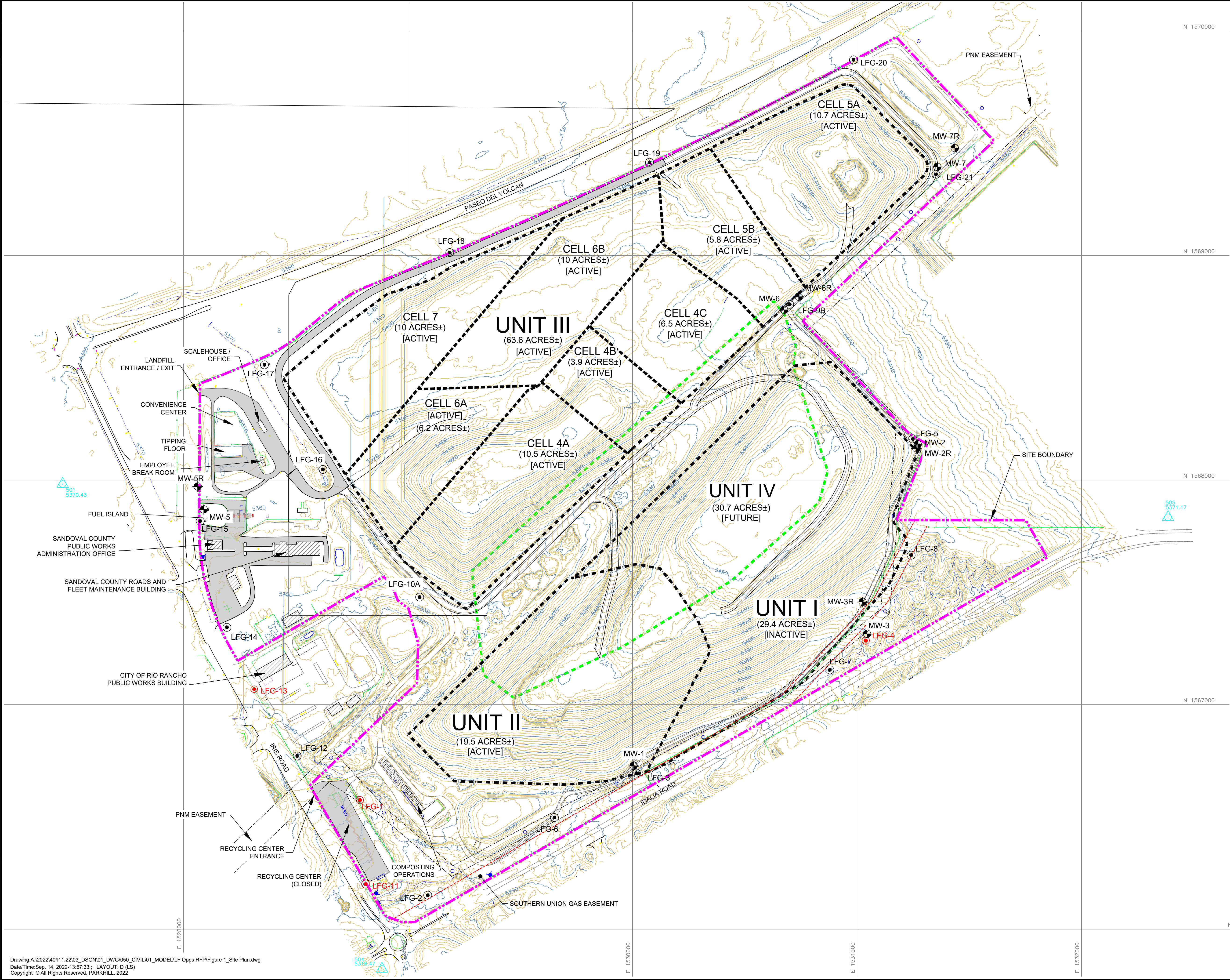
1.2 Project Description

The Sandoval County Landfill (SCLF) is an existing solid waste facility operating in compliance with NMED Permits, SWM-0123365 and SWM-0123364 (SP); the approved Permit Application and Engineering Design (**Exhibit D**) and the currently applicable New Mexico Environment Department (NMED) Solid Waste Rules (i.e., 20.9.2-2.9.10 NMAC). SCLF is publicly owned and operated by the Sandoval County Public Works Department (“the County”) and is currently permitted to accept municipal solid waste (MSW), including construction and demolition debris (C&D) and tires, and two special wastes: petroleum contaminated soils (PCS) and sludge. SCLF currently receives approximately 570 tons per day, and **Exhibit E** shows recent trends. SCLF also accepts and manages recyclables, household hazardous waste, organic wastes, and tires for processing.

SCLF is located at 2708 Iris Road NE in Rio Rancho, New Mexico (NM), and occupies 178.3 acres ±. Current operations are being conducted in Unit III (**Figure 1**). Due to Unit IV being designed as a piggyback unit in the valley between existing Units I & II to the south and existing Unit III to the north, it is anticipated that Unit III will have capacity through approximately 2027, when limited to Intermediate Operational Grades (**Figure 2**). However, total landfill longevity (Including future Unit IV) is estimated to be approximately 28 years at the average operational rate of 570 tons per day. Operations will be transitioned to the next cell before capacity in Unit III is depleted. Procurement for construction of Unit IV is anticipated to be initiated in late 2025.

Table 1.2 - SCLF Existing Infrastructure

1. Paved entrance, roadways, and parking areas.
2. Scalehouse and two scales.
3. Employee Breakroom
4. Convenience and Recycling Center
5. Utilities
6. Landfill Cells 1-7.
7. Equipment Maintenance Facility and offices.
8. Berms, fencing, and soil stockpiles.
9. Groundwater monitoring wells.
10. Landfill Gas monitoring probes.
11. Temporary roads, signs, stormwater control systems, and appurtenances necessary for operations in compliance with Solid Waste and Air Quality Permits, Permit Conditions, and approved Permit Applications.
12. Green/organic waste processing area.
13. In-vessel composting area.
14. Any other ancillary facilities in existence at the time of Contract award.



- LEGEND**
- PROPERTY LINE
 - UNIT BOUNDARY (EXISTING)
 - CELL BOUNDARY
 - FENCE LINE
 - PNM UTILITY EASEMENT BOUNDARY
 - GAS CO. UTILITY EASEMENT BOUNDARY
 - 10' CONTOUR (EXISTING)
 - 2' CONTOUR (EXISTING)
 - EXISTING STRUCTURES
 - FIRE HYDRANT
 - CONTROL
 - EXISTING GROUNDWATER MONITORING WELL
 - EXISTING LFG GAS PROBE (ACTIVE)
 - EXISTING LFG GAS PROBE (INACTIVE)

NOTE:
SITE INFRASTRUCTURE AND TOPOGRAPHY BASED ON MAPPING COMPILED FROM AERIAL PHOTOGRAPHY ACQUIRED ON JANUARY 17TH, 2022.

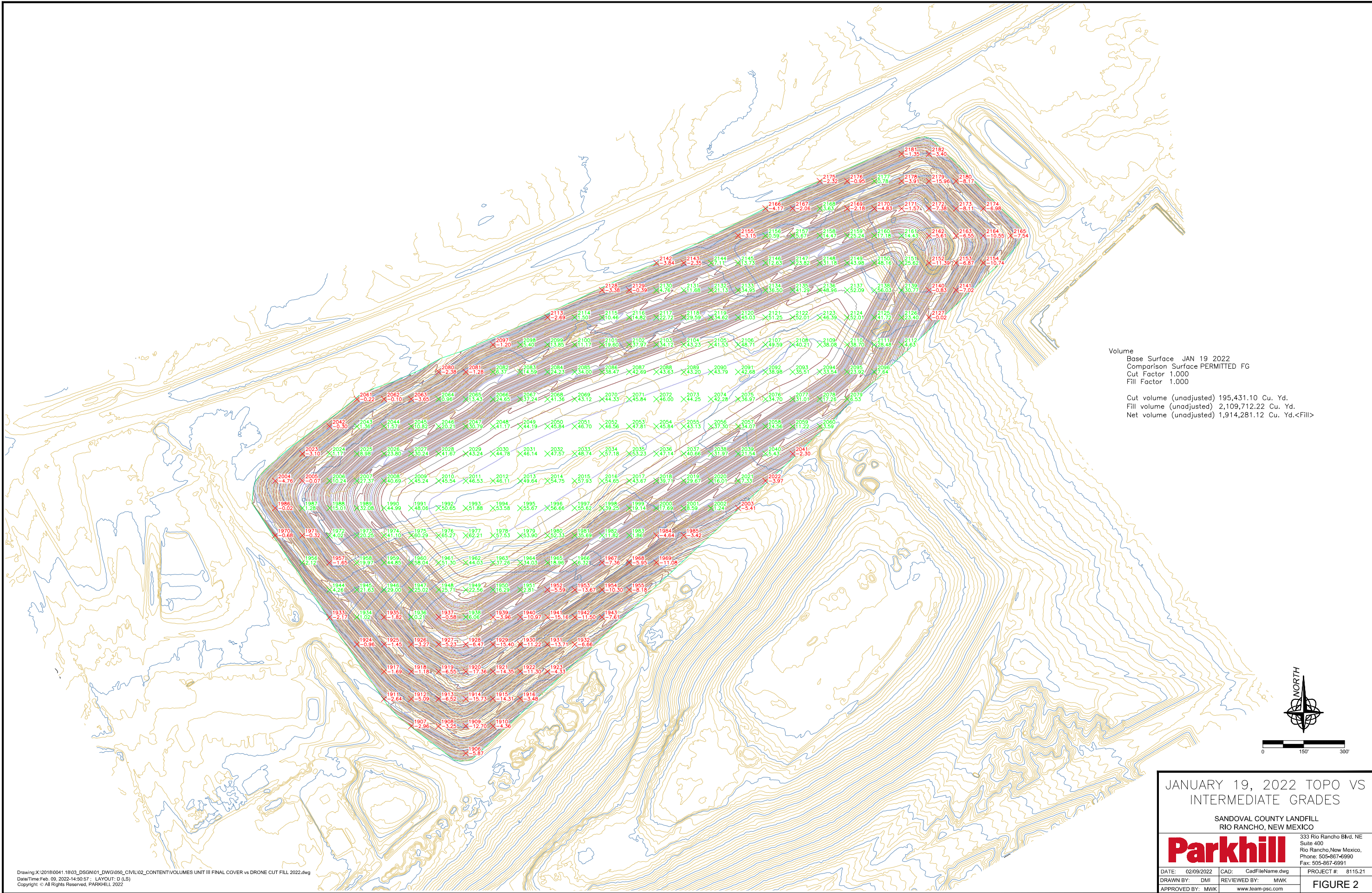
SITE PLAN

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

Parkhill

333 Rio Rancho Blvd. NE
Suite 400
Rio Rancho, New Mexico,
Phone: 505-867-6990
Fax: 505-867-6991

| | | |
|------------------|-------------------------|---------------------|
| DATE: 08/15/2022 | CAD: SCLF Site Plan.dwg | PROJECT #: 40111.22 |
| DRAWN BY: TSZ | REVIEWED BY: MWK | FIGURE 1 |
| APPROVED BY: MWK | www.parkhill.com | |



Volume
Base Surface JAN 19 2022
Comparison Surface PERMITTED FG
Cut Factor 1.000
Fill Factor 1.000

Cut volume (unadjusted) 195,431.10 Cu. Yd.
Fill volume (unadjusted) 2,109,712.22 Cu. Yd.
Net volume (unadjusted) 1,914,281.12 Cu. Yd.<Fill>



JANUARY 19, 2022 TOPO VS
INTERMEDIATE GRADES

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

Parkhill

DATE: 02/09/2022
DRAWN BY: DMI
APPROVED BY: MWK

CAD: CadFileName.dwg
REVIEWED BY: MWK
www.team-psc.com

333 Rio Rancho Blvd. NE
Suite 400
Rio Rancho, New Mexico,
Phone: 505-867-6990
Fax: 505-867-6991
PROJECT # 8115.21
FIGURE 2

Drawing: X:\2019\0041.19\03_DSGN\01_DWG\050_CIVIL\02_CONTENT\VOLUMES UNIT III FINAL COVER vs DRONE CUT FILL 2022.dwg
Date/Time: Feb. 09, 2022-14:50:57; LAYOUT: D (LS)
Copyright © All Rights Reserved, PARKHILL 2022

1.3 Definitions and Acronyms

For the purposes of this RFP and Contractor's Proposal, the following definitions apply:

Table 1.3 - Definitions and Acronyms

1. 20.9.1 NMAC – New Mexico Solid Waste Rules and any successors or updates
2. Contractor / Proposer – the licensed qualified entity that is providing its Proposal for the Sandoval County Landfill Operations Services project in response to RFP FY23-SCPW-03
3. Engineer - Parkhill
4. SCLF – Sandoval County Landfill
5. Sandoval County Public Works Department (the County) – the current owner and operator of the Sandoval County Landfill. Public entity of the county of Sandoval, New Mexico.
6. MSW – Municipal Solid Waste: “solid waste”, as defined by 20.9.1.105 NMAC and any successor rules
7. MSW Landfill – Municipal Solid Waste Landfill: “municipal landfill”, as defined by 20.9.1.105 NMAC and any successor rules
8. NMED – New Mexico Environment Department
9. NPDES – National Pollutant Discharge Elimination System
10. NSPS – New Source Performance Standards, USEPA Title V program (Air Permitting)
11. OSHA – Occupational Safety and Health Administration
12. RFP – Request for Proposal No. FY23-SCPW-03
13. Special Wastes – “special wastes”, as defined by 20.9.1.105 NMAC and any successor rules
14. SWB – Solid Waste Bureau, New Mexico Environment Department
15. USEPA – United States Environmental Protection Agency

The Contractor is responsible for maintaining the existing infrastructure in workman-like condition; and returning it to the County at the end of the Contract Period in the same or better condition as on the date of commencing operations. The Contractor is also responsible for coordinating with and assisting the County, the Engineer, and other Contractors in site development, construction of new cells, as well as routine intermediate cover and closure activities.

The current hours of operation are from 7:00am to 4:00pm Monday through Saturday. SCLF is currently closed on Sundays, and ten (10) designated holidays. Adjusted holiday hours/closures are subject to negotiation; however, for pricing purposes, Proposers should assume ten (10) holidays. These hours of operation are routinely updated by the County.

The Contractor is invited to submit innovative approaches or other proposed operating improvements in its Technical Proposal (Section 3.2). The Contractor is also provided the opportunity to provide “Alternate Proposal(s)” pursuant to Section 4.3, provided that a conforming Proposal is also submitted; and the Contractor is awarded a passing score for its Technical Proposal. Contractors are encouraged to provide a proposal for all scenarios in the following sections. However, Contractor must submit a proposal for at least one scenario.

2.0 SCOPE OF WORK

2.1 Alternative A: Back End Operations Only

The Contractor will perform all activities necessary to or associated with the daily operation and maintenance of the landfill. Operation will be conducted in compliance with all applicable state and federal solid waste rules, solid waste industry landfill operating standards, the SCLF Permit, and the Landfill's Plan of Operations. The scope of landfill operation tasks to be performed by the successful Contractor includes, but is not limited to the tasks listed below:

2.1.1 Landfill Operations

The scope of the Landfill Operations tasks to be performed by the successful Contractor would include but not be limited to the tasks listed on **Table 2.1**:

Table 2.1 - Landfill Contractor Responsibilities

1. Spreading and compacting of solid waste to meet minimum specifications (i.e., 1,200 lb/cy).
2. Supply off-site soils for daily and intermediate cover and all other operational soil requirements.
3. The hauling, spreading, and compacting of daily and intermediate cover soils.
4. Dust, vector, litter, and odor control.
5. Fire prevention and control.
6. Supervision of traffic flow.
7. Providing necessary equipment and supervision to ensure operation is in conformance with health and safety procedures.
8. Maintenance of roads and disposal facilities for inclement weather.
9. Maintenance of on-site roads, equipment, and infrastructure.
10. Operation and oversight of the convenience and recycling area.
11. Operation and oversight of the green/organic waste processing area.
12. Operation and oversight of the household hazardous waste collection area.
13. Operation and oversight of the in-vessel composting area.
14. Recordkeeping and reporting (other than that performed by SCLF personnel).
15. Implementation of quality control procedures.
16. Provide a monthly Operations Report that identifies issues identified, resolution of issues, current equipment status and other information identified in consultation with the SCLF Supervisor.
17. General advice and updates to SCLF on operating practices.
18. Contractor will have a representative attend all required SCLF meetings.
19. Compliance with regulatory requirements and any revisions to the Plan of Operations or other Permit requirements necessitated by the Contract award, the Contractor's proposed operating approach, or any new Permit/permit Conditions.
20. Providing compliance services for the receipt of approved "special wastes" streams, including but not limited to waste screening, and special handling.
21. Intermediate cover/closure of filled areas in compliance with NMED rules and the Permit.
22. Annual aerial or ground survey of site to verify waste compaction ratios, with reporting to SCLF by June each year in a format meeting SCLF specifications.

23. Personnel training, including a commitment to having NMED Certified Operators on-site and routine safety meetings.
24. Managing leachate in accordance with the approved Permit Application and applicable NMED requirements; specifically limiting leachate “head” to 12" or less, with appropriate documentation.
25. Conducting routine waste screening in accordance with the approved Permit Application and current NMED Solid Waste Rules; with required recordkeeping/reporting.
26. Providing water in sufficient quantities to meet on-site dust control and soil compaction requirements (using existing water supply infrastructure provided by SCLF).
27. Application, vegetation and maintenance of intermediate cover as required by the approved NMED Permit Application and currently applicable rules.
28. Coordinating with and assisting SCLF with community waste clean-up and recycling initiatives.
29. Next cell excavation (optional).
30. Incremental (final) closure of landfill areas reaching final grade (optional).
31. Other routine landfill operational duties required by the permit, the regulations and as assigned by SCLF.

2.1.2 Environmental Monitoring and Reporting

The Contractor will be responsible for compliance with local, state, and federal regulations in the operation of SCLF; including but not limited to those items listed in **Table 2.2** below:

Table 2.2 - Environmental Monitoring and Reporting Contractor Responsibilities

1. Surface water quality compliance (i.e., NPDES monitoring and compliance).
2. Quarterly monitoring of groundwater monitoring points and related regulatory reporting.
3. Monitoring of leachate depths, quality and quantity (as required).
4. Quarterly landfill gas (LFG) monitoring and reporting in accordance with SCLF’s Permit and applicable NMED requirements.
5. Annual reporting to NMED, including required annual updates on Financial Assurance.
6. Updating Landfill Operator Certification records.
7. Coordinating with routine SCLF and NMED site inspections and providing Recordkeeping results.
8. Updating and maintaining the Facility Operating Record to include the required data; and resolving any issues as a result of NMED reviews.
9. Waste screening and reporting in compliance with the approved Permit and current NMED requirements.
10. Obtaining NMED approvals for changes in operating practices proposed by Contractor that have been specifically approved by SCLF.
11. Responding to, reporting and recordkeeping for any site visit contingencies, accidents, emergencies, environmental releases, etc. in accordance with the approved Contingency Plan.
12. Compliance with NMED requirements, the Permit, and industry standards for receiving and managing approved “special wastes”.
13. Providing copies of all NMED communications to the SCLF Supervisor.

2.1.3 Sandoval County Responsibilities

In performance of the Contract, SCLF will continue to own the landfill infrastructure and manage the routine operations and regulatory compliance of the facility in coordination with the selected Contractor. Specific SCLF responsibilities are listed in **Table 2.3** below:

Table 2.3 - Sandoval County Responsibilities

1. Ownership of and insurance on the site and capital improvements.
2. Designating any excavation, fill, and stockpile areas; and incremental closure units.
3. Oversight and input on landfill operations.
4. Establishing gate fees (\$/ton) and hours of operation.
5. Approving acceptance of any new “special wastes” streams (as defined by NMED) or significant changes to MSW types or rates of receipt.
6. New capital improvements approved by SCLF.
7. Planning and installation of new cell liner and leachate collection systems.
8. Renewal of the NMED Solid Waste Facility Permit.
9. Providing NMED-required Financial Assurance per the approved Permit and 20.9.2 – 20.9.10 NMAC requirements.
10. NSPS compliance and reporting (as applicable).

The initial term of the operating agreement is for 7 (seven) years. Upon expiration of the initial term, the County, in its sole discretion, may renew the operating agreement for subsequent five year terms.

2.2 Alternative B: Back-End and Front-End Operations

Alternative B includes all sections from Alternative A with the additional responsibility for the operation of the Scalehouse. SCLF is considering conducting the operation of the Scalehouse as a County function. Alternatively, the SCLF may award scale operations to the successful Contractor at its sole discretion.

2.2.1 Scalehouse Operations

The Contractor is being requested to provide, as a part of their Proposal, the methods that the Contractor would use to implement the following activities associated with managing the Scalehouse operation. The scope of the Scalehouse Operations tasks to be performed by the successful Contractor would include but not be limited to the tasks listed in **Table 2.4** below:

Table 2.4 - Scalehouse Operations Contractor Responsibilities

1. Receiving and recording each waste delivery vehicle in accordance with NMED Standards.
2. Supervision to ensure operation in conformance with health and safety procedures.
3. Recordkeeping and reporting (other than that performed by SCLF personnel).
4. Compliance with regulatory requirements and any revisions to the Plan of Operations, other Permit requirements necessitated by the Contract award or the Contractor's proposed operating approach, and/or the Permit/Permit conditions.
5. Providing compliance services for the receipt of approved "special wastes" streams, including but not limited to manifest management, conformance with disposal management plans, waste screening, and special handling.
6. Conducting routine waste screening in accordance with the approved Permit Application and current NMED Solid Waste Rules; with required recordkeeping/reporting.
7. Provide routine scale maintenance that includes monthly clean-out under scales and annual calibrations.
8. Providing the necessary computers and software to interface with the existing scale and office infrastructure, with appropriate recordkeeping and reporting capabilities.
9. Coordinating with and assisting SCLF with community waste clean-up and recycling initiatives.
10. Development of a Waste Diversion Plan to promote the diversion of materials presented for disposal via recycling or processing (i.e., green waste, C&D, etc.). Management and operation of the diversion effort.
11. Notification to SCLF of proposed landfill shutdowns for inclement weather. Receipt of SCLF approval prior to closing. Notification of routine customers by email of landfill shutdown.

2.2.2 Recordkeeping and Reporting

In conjunction with the operation of the Scalehouse, the Contractor will provide a direct electronic interface with the scale billing system and will make available detailed electronic and/or hard copy records of waste receipts for the previous month by the fifth working day of the following month. The records shall be provided in a format approved by SCLF; and shall be subject to routine audit. Contractor shall provide a duplicate computer that contains the same information as the Scalehouse computer for SCLF's use; and respond to SCLF requests for clarification or additional data within 14 days.

The initial term of the operating agreement is for 7 (seven) years. Upon expiration of the initial term, the County, in its sole discretion, may renew the operating agreement for subsequent five year terms.

2.3 Alternative C: Contractor Controlled Landfill

The County is considering transferring the solid waste permit over to a qualified contractor and leasing the landfill property to this qualified contractor. In this scenario the contractor would be fully liable for the entire landfill and in turn would pay a royalty back to the County. The responsibilities of the contractor and the County would be further defined as follows below in sections 2.3.1 and 2.3.2.

2.3.1 Responsibilities of the Contractor

1. Contractor is responsible for all items listed in Scenario A and Scenario B.
2. Contractor will provide financial assurance for closure and post-closure liabilities to the NMED and to Sandoval County.
3. Contractor is responsible for all violations and fines incurred in the course of operating and managing the landfill.
4. Bear the costs of transferring the solid waste permit into Contractor's legal entity name. This includes any NMED fees as well as outside legal and other consulting support that may be required.
5. Contractor will establish and control pricing at the scale. Pricing will be maintained at market rates and reviewed by the County on an annual basis. A third party market rate study will be utilized during this review to benchmark current market conditions.
6. Upon termination of the contract, Contractor shall return the landfill and all associated assets in a good condition that is compliant with the permit.

2.3.2 Responsibilities of the County

1. County continues to own the land occupied by the landfill facility.
2. Cooperate with Contractor in transferring the solid waste permit.
3. Supply and enter into a lease agreement with Contractor for the same term as the contract term.
4. Provide an annual third party market rate study pursuant to item 2.3.1.5 above.

The initial term of this lease agreement is for 7 (seven) years. Upon expiration of the initial term, the County, in its sole discretion, may renew the contract and lease agreement for subsequent five year terms. Should the County decide to not renew the contract, Contractor is expected to cooperate with all efforts of the County to transfer the solid waste permit back into the County's possession. The County will bear all costs for this permit transfer at the end of the contract.

A Technical Proposal and a Cost Proposal should be submitted for this alternative. Because this alternative differs significantly from the first two alternatives stated herein, the cost proposal (royalty proposal) may be submitted in the proposer's own format instead of using the provided forms (5.1 and 5.2A and 5.2B).

3.0 PROPOSAL PROCEDURES

3.1 Proposal Requirements

Copies of the RFP may be obtained electronically from the Sandoval County Request for Proposals web page:

<https://www.sandovalcountynm.gov/departments/online-business/request-for-proposal/>

A mandatory Pre-Proposal meeting will be conducted at the Sandoval County Public Works Building on **January 20, 2023, at 10:00 a.m.** A site tour will follow the pre-proposal meeting. Contractors will be required to acknowledge their understanding of existing site conditions, daily operations, applicable permit conditions and regulatory requirements in its Proposal; and receipt of any addenda (as applicable).

In order to comply with the Proposal requirements, the Contractor must attend the Pre-Proposal meeting, and submit the Technical Proposal and a primary Cost Proposal. Alternate Proposals are allowed in accordance with Section 4.3 of this RFP. Contractor is required to provide a Cost Proposal for at least one Scenario.

The Technical Proposal, Cost Proposal, and Alternate Proposal(s) (if any) must be received (hard copies only) for public opening by **3:00 pm, March 21, 2023**, at the Sandoval County Public Works Department, 2708 Iris Road, Rio Rancho, New Mexico. Each must be submitted in a separate sealed envelope with the outside clearly marked with the RFP number FY23-SCPW-03. Proposal contents, project name, bidder and date. The Technical Proposal shall not include any elements related to the Cost Proposal. The Proposals will be opened and reviewed privately by the County.

3.2 Technical Proposal

Failure to provide adequate information requested for the Technical Proposal may, at the discretion of the County, be deemed cause for disqualification of the Proposer. The Technical Proposal shall address the following:

- a) **Safety Record:** Contractor shall submit a section discussing their current safety program and approach to focusing on safety for this project. This will include submitting the Contractors current OSHA Recordable Incident Rate (TRIR) for calendar year 2021 and year to date 2022 actuals. The TRIR shall be based upon operations comparable to the proposed operation (i.e. landfill safety record not hauling operations). If Contractor operates nationwide or in multiple states, Contractor shall submit their TRIR from the relevant portion of their management region that encompasses New Mexico.
- b) **Operational Approach:** This section will include a clear statement of the Proposer's understanding of the landfill operating requirements set forth in the RFP, the NMED Rules and Permit documents. This section must be specific, detailed and complete. It should clearly and fully demonstrate that the Proposer understands the requirements and the technical issues inherent in the work, and also present valid and practical solutions for those issues. The operational approach shall take into account the conditions, terms, and specifications of the Contract Documents.

This section should include a discussion as to the number, size, condition, age and types of equipment that will be employed to accomplish routine landfill operation functions (i.e., waste handling, cover material handling, and support functions). (Note that the County and Contractor may enter into good faith negotiations regarding the purchase of the County's existing equipment; however, Proposers are not required to purchase the County's equipment.) Contractor is required to achieve and document an in-place waste density of at least 1,200 lbs/cubic yard. Assumptions should be stated when used in equipment selection, including:

- quantity and type of solid waste
- type and quantity of soil to be moved including the source of the external borrow area
- distance soil must be moved
- site clearing requirements
- time required for covering, and waste compaction
- site conditions, such as topography, including drainage patterns and excavation parameters
- weather accommodations (i.e., wet weather access/disposal)
- reliability of equipment

The Proposer should propose a Daily Operational Plan that complies with the proposed Solid Waste Rules and SCLF's current Plan of Operations and NMED Permit (**Exhibit G**). In addition to a description of proposed operating improvements, the Proposer should also address the following items regarding the proposed equipment:

- equipment description, model, equipment hours and year, including any accessories
- backup equipment for times when breakdowns occur (key pieces of equipment must be repaired or replaced within two (2) working days)
- preventive maintenance programs for heavy equipment
- safety practices and training programs for employees

The Proposer shall confirm the start date and the equipment and personnel that will be available on that date. If for some reason the Contractor is unable to use the equipment specified, it shall provide equipment and or personnel that is at least equivalent to that proposed with the specific written approval of the County.

Contractor shall detail the proposed quality control program to demonstrate that the QA/QC procedures are readily verifiable. The quality control procedures should be designed for compliance with NMED Rules and the landfill design (**Exhibit D**).

- c) **Technical Management:** This section will include a description of the organization and management structure that will be utilized to perform the work. At a minimum, this section will include a chart identifying the job categories of personnel proposed and specifically identifying their assignments, applicable certifications, and years of experience. NMED Certified Landfill Operators that will be assigned to the project should be listed with Certification number/status, or commitment to achieve the required certification.
- d) **Experience of Key Technical Personnel:** This section should specify those managers, supervisors and other technical personnel considered key to the successful accomplishment

of the work objectives. This will include a discussion of each individual's qualifications, training, education, experience with similar projects, and the position of these individuals in the Proposer's overall organization. Resumes should be included for each of the key personnel describing their education, background, relevant experience, certifications held and accomplishments. At a minimum, the key personnel specifically described shall include the overall program manager and the landfill supervisor/manager. Substitution of key personnel, as identified in the Contractor's proposal, shall require the specific written approval of the County.

- e) **Subcontractors:** Any significant subcontractors representing more than 5% of the estimated Contract value shall be identified with a summary of their qualifications, personnel, applicable licenses/certifications, and specific role in the Project.

3.2.1 Corporate Experience: Sanitary Landfills

Each Proposer must submit with its Proposal an experience record indicating at least five years experience in the operation of municipal solid waste (MSW) sanitary landfills. Contractor will provide details of similar projects and project-specific references for other MSW landfills; and other facilities that receive a similar daily tonnage. Contractor shall also provide a compliance record with landfill operations in other states, specifically detailing state inspection results, noted deficiencies, notices of violation, compliance orders, pending litigation, etc. A Proposer without experience in operating a similar sanitary landfill within the last five years must submit a sufficient record documenting related experience. The Contractor must also certify that the specified key technical personnel have had experience in operating sanitary landfills over the past five years; and that the key technical personnel listed will be actively engaged to perform the work herein.

The County shall have the right to investigate the Proposer's ability to perform the work herein and the Proposer agrees to cooperate with any such investigation. The Proposer shall furnish all related information and data upon request, including but not limited to, that pertaining to its organization, its present number of employees, its present vehicles and equipment, and lists of representative clients and references.

3.3 Financial Information:

- (i) **Financial Records:** Each Proposer must furnish a balance sheet and income statement (which may be consolidated for Proposer and affiliated corporations where Proposer, Proposer's parent or a corporation affiliated with Proposer is publicly owned) as of the most recently completed fiscal year and audited by an independent public accountant. All such financial statements are to be prepared in accordance with generally accepted accounting principles applied on a consistent basis and shall be accompanied by a statement from the chief financial officer of the Proposer that there has been no material adverse change in such condition or operations as reflected in that balance sheet and income statements since the date that they were prepared.
- (ii) **Proof of Financial Capability and Disclosure of Certain Stockholders' and Creditors' Name:** In addition to the requirements of any other provision of the Contract Documents, no Proposal will be considered by the County unless such Proposer demonstrates by appropriate financial records, as may be reasonably required by the

County, that it has a sufficient working capital to perform the contract. In addition, such records must also disclose the names and addresses of any stockholder holding more than ten percent of any class of stock of the Proposer and of any creditor of the Proposer to whom a debt is owed, whether secured or not by the Proposer, in excess of ten percent of the value of the Proposer's total assets irrespective of the Proposer's equity interest in such assets.

3.4 Sample Contract

A Sample Contract is provided as **Exhibit H**. The proposed Contract sets forth the anticipated obligations of the Contractor and the County as enumerated in the RFP. It addresses pertinent information relating to the Proposal requirements, including, but not limited to:

Table 3.1 - Contract Terms

- 1) Definition of Terms
- 2) Operation of Landfill
- 3) Compliance with NMED and other applicable standards
- 4) Waste Measurement and Payment
- 5) Special Waste
- 6) Monitoring and Compliance
- 7) Indemnification
- 8) Force Majeure
- 9) Insurance Requirements
- 10) Inspection Provisions
- 11) Compensation
- 12) Contract Termination Criteria
- 13) Contract Term
- 14) Surety
- 15) Saving Clause
- 16) Complaint Resolution

This Sample Contract (with any proposed revisions by the Contractor) will be, with the Contractor's Technical Proposal and Cost Proposal, the starting point for negotiations with the highest-ranked Contractor. The Contractor and the County may request changes to the Sample Contract during negotiations.

3.5 Bonding

Surety must be provided by the successful Proposer in the form of a performance bond. A bond must be provided for full coverage throughout the first four-year contract period at the estimated rate of 570 tpd (working days) times the Contractor's unit cost at that rate of receipts. Contractor's personnel who are responsible for handling cash at the SCLF shall be individually bonded for that purpose.

3.6 Cost Proposal

Contractor is required to submit Forms 5.1 and/or 5.2A & 5.2B with each of the required items filled in completely in a separate envelope so marked as "Cost Proposal".

3.7 Acknowledgement of Receipt

Potential Offerors may e-mail, hand deliver, return by facsimile or registered or certified mail the "Acknowledgement of Receipt of Request for Proposals Form" that accompanies this document, **Exhibit A**, to have the offeror placed on the procurement distribution list. The form should be signed by an authorized representative of the Offeror, dated and returned to the Procurement Manager.

The procurement distribution list will be used for the distribution of written responses to questions.

3.8 Procurement Policy

The Sandoval County Procurement Policy and the New Mexico Procurement Code 13-1-28 through 199, NMSA, 1978 will apply to this procurement and prevail over any inconsistencies herein, and govern all interpretations of contract documentation.

Offeror must complete, sign, and return the Campaign Contribution Disclosure Form (**Exhibit C**) as a part of their proposal. Failure to complete and return the signed unaltered form will result in disqualification.

3.9 New Mexico Preferences

To ensure adequate consideration and application of NMSA 1978, § 13-1-21 (as amended). Offerors **MUST** include a copy of their preference certificate with their proposal. Certificates for preferences must be obtained through the New Mexico Department of Taxation & Revenue:

<http://www.tax.newmexico.gov/Businesses/in-state-veteran-preference-certification.aspx>.

- A. New Mexico Business Preference
A copy of the certification must accompany Offeror's proposal.
- B. New Mexico Resident Veterans Business Preference
A copy of the certification must accompany Offeror's proposal.

An agency shall not award a business both a resident business preference and a resident veteran business preference.

The New Mexico Preferences shall not apply when the expenditures for this RFP includes federal funds.

3.10 Proof of Insurance

The selected Contractor will be required to carry:

- Workers' Compensation insurance as required by New Mexico State Statute.
- Motor vehicle liability insurance with limits of not less than \$2,000,000 each person, \$2,000,000 each accident, and \$1,000,000 for property damage.
- General liability insurance in the amount of \$2,000,000.00 per occurrence and \$2,000,000.00 aggregate.
- All required insurance policies shall be written by insurance companies authorized to conduct business in the state of New Mexico

The County will be listed as additional insured and proof of coverage will be provided to the County in advance of Contract implementation.

3.11 Proposal Checklist

Each Proposal must include the following:

- The Technical Proposal
- The Financial Information
- Any proposed revisions/exceptions to the Sample Contract
- Acknowledgement of the ability to provide the Performance Bond
- The Cost Proposal (**Forms 5.1 and/or 5.2A and 5.2B, and 5.3 if applicable**)
- Acknowledgement of Receipt (**Exhibit A**)
- Letter of Transmittal (**Exhibit B**)
- Representation and Certifications (**Exhibit C**)
 - Campaign Contribution Disclosure Form
 - Conflict of Interest Form
 - Related Party Disclosure Form
 - Debarment Certification Form
 - Affidavit of Non-Collusion Form
- Proof of Insurance

Receipt of a Proposal without these mandatory components may be considered incomplete.

3.11 Background Information

The following Background Information is included to provide the proposer with information related to the landfill design and operation. **Exhibit F** provides the Annual Reports submitted to the NMED for 2018 through 2021.

4.0 PROPOSAL EVALUATION

4.1 Technical Proposal

This Request for Proposals will be evaluated by the selection committee and the Sandoval County Commission. The Contractor shall submit five (5) printed copies of their Proposals in two (2) separate sealed packages. The Contractor shall also submit a USB drive with a complete digital copy of the submitted proposal in one sealed package and a USB drive with a complete digital copy of the Cost Proposal in the other sealed package. The first package will include the Technical Proposal and will be evaluated first. After evaluation and scoring of the Proposals based upon the technical aspects, all Proposals receiving a score of eighty (80) points or more will be eligible for the financial evaluation process. All Proposers receiving less than eighty (80) points in the Technical Proposal evaluation will have their Cost Proposal, and any Alternate Proposal(s) returned, unopened.

Rating System: The Technical Proposal will be ranked on the following basis:

Table 4.1 - Technical Proposal Evaluation Criteria

| | | |
|------------------------|---|------------------|
| a) | Clarity of the Proposal, Sample Contract terms exceptions (if any), and compliance with RFP criteria | 20 points |
| b) | Familiarity with NMED rules, solid waste industry operating standards, and the Sandoval County Landfill Project | 30 points |
| c) | Management team and staffing plan | 20 points |
| d) | Operational approach, work team experience and qualifications | <u>30 points</u> |
| Total Possible Points: | | 100 Points |

Minimum passing score = 80 points

4.2 Cost Proposal

The Cost Proposal of the Proposers qualifying via the technical scoring criteria will be opened and evaluated for the purpose of determining the best new offering to the County. Applicable aspects will be evaluated in order for the County to select the Contractor that offers the best package in the opinion of the County Commission. The County reserves the right to reject any or all Proposals, if deemed to be in the best interest of the County, and to request revisions to Proposal(s) in the negotiation process. For a proposal to be complete, a cost proposal shall be included in the submission. Contractor shall use Form 5.1 for Alternative A, and/or 5.2 for Alternative B, , and/or/submit an alternative cost proposal for Alternative C as outlined in section 4.3.

4.3 Alternate Proposals

Contractors are invited to submit Alternate Proposals that may not conform strictly to the Cost Proposal requirements (**Forms 5.1 and 5.2A & 5.2B**) in order to offer innovative approaches provided that:

- The Contractor conforms with the other applicable sections of this RFP.
- The Contractor submits a primary (conforming) Proposal.
- The Contractor passes the Technical Proposal Evaluation Test for its primary Proposal (Section 4.1).
- The Contractor submits sufficient cost and technical detail for the County to compare the Alternate Proposal to other Proposals.
- The Contractor submits the Alternate Proposal in a separate sealed envelope labeled as Alternate Proposal and meets the other administrative submission requirements.
- The Technical Proposal contents that are the same for both the primary and alternate Proposals (i.e., qualifications) need not be resubmitted with the Alternate Proposal at the discretion of the Contractor.

5.0 PROPOSER FORMS

Cost Proposal forms are provide as follows:

- Form 5.1 Alternative A Cost Proposal
- Form 5.2A Alternative B Cost Proposal
- Form 5.2B Alternative B Cost Proposal

FORM 5.1
Sandoval County Landfill
Proposal for Landfill Operations RFP No FY23-SCPW-03
Alternative A Cost Proposal

- 1.0 Landfill Operations:** To calculate tons/day, monthly tonnage totals are divided by the number of working days in that specific month, including Saturdays but excluding Sundays and ten approved holidays. That number is then averaged for an entire year. Throughout the duration of this contract, there is no minimum annually delivered tonnage guarantee.

| | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
|--------|--------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Item # | Tons/day Monthly Average | Contractor's Unit Cost / Ton | Contractor's Unit Cost / Ton | Contractor's Unit Cost / Ton | Contractor's Unit Cost / Ton | Contractor's Unit Cost / Ton | Contractor's Unit Cost / Ton | Contractor's Unit Cost / Ton |
| 1.1 | <400 | | | | | | | |
| 1.2 | 401-450 | | | | | | | |
| 1.3 | 451-500 | | | | | | | |
| 1.4 | 501-550 | | | | | | | |
| 1.5 | 551-600 | | | | | | | |
| 1.6 | 601-650 | | | | | | | |
| 1.7 | 651-700 | | | | | | | |
| 1.8 | >700 | | | | | | | |

- 1.9 Hourly Operating Cost (extra hours) weekdays (\$/hour)

| |
|--|
| |
|--|
- 2.0 Hourly Operating Cost (extra hours) weekends (\$/hour)

| |
|--|
| |
|--|

- 2.1 Peripheral Services:** These services are outlined into four categories below. Contractor is to provide pricing for the operation and oversight of each peripheral service below.

| | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
|--------|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Item # | Service | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month |
| 2.2 | Convenience & Recycling Area Operations | | | | | | | |
| 2.3 | Green/Organic waste processing area | | | | | | | |
| 2.4 | HHW Collection Area | | | | | | | |
| 2.5 | In-Vessel Composting Area | | | | | | | |

Notes: Contractor is required to provide a unit cost for each of the 14 (fourteen) items listed above. (1.1-2.5)
 If a cost adjustment equation (e.g. fuel multiplier) is proposed, summarize the method used to calculate the increases/savings here:

 (provide additional sheets if necessary)

CONTRACTORS CERTIFICATION

Name _____ Title _____
 Signature _____ Date _____

FORM 5.2 A
Sandoval County Landfill
Proposal for Landfill Operations RFP No FY23-SCPW-03
Alternative B Cost Proposal

1.0 Scalehouse Operations: Monthly Contractor's cost to staff and manage the Scalehouse Operations and comply with the recordkeeping and reporting requirements. This cost should include the monthly cost to develop and operate a diversion plan pursuant to Table 2.4 Item #10.

| | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
|--------|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Item # | Tons/day Monthly Average | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month |
| 1.1 | <400 | | | | | | | |
| 1.2 | 401-450 | | | | | | | |
| 1.3 | 451-500 | | | | | | | |
| 1.4 | 501-550 | | | | | | | |
| 1.5 | 551-600 | | | | | | | |
| 1.6 | 601-650 | | | | | | | |
| 1.7 | 651-700 | | | | | | | |
| 1.8 | >700 | | | | | | | |
| 1.9 | Hourly Scalehouse Operating Cost (extra hours) weekdays (\$/hour) | | | | | | | |
| 2.0 | Hourly Scalehouse Operating Cost (extra hours) weekends (\$/hour) | | | | | | | |

Notes: This form must be accompanied by a completed Form 5.2B for Landfill Operations

CONTRACTORS CERTIFICATION

Name _____
Signature _____

Title _____
Date _____

FORM 5.2 B
Sandoval County Landfill
Proposal for Landfill Operations RFP No FY23-SCPW-03
Alternative B Cost Proposal

- 1.0 Landfill Operations:** To calculate tons/day, monthly tonnage totals are divided by the number of working days in that specific month, including Saturdays but excluding Sundays and ten approved holidays. That number is then averaged for an entire year. Throughout the duration of this contract, there is no minimum annually delivered tonnage guarantee.

| | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
|--------|--------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Item # | Tons/day Monthly Average | Contractor's Unit Cost / Ton | Contractor's Unit Cost / Ton | Contractor's Unit Cost / Ton | Contractor's Unit Cost / Ton | Contractor's Unit Cost / Ton | Contractor's Unit Cost / Ton | Contractor's Unit Cost / Ton |
| 1.1 | <400 | | | | | | | |
| 1.2 | 401-450 | | | | | | | |
| 1.3 | 451-500 | | | | | | | |
| 1.4 | 501-550 | | | | | | | |
| 1.5 | 551-600 | | | | | | | |
| 1.6 | 601-650 | | | | | | | |
| 1.7 | 651-700 | | | | | | | |
| 1.8 | >700 | | | | | | | |

- 1.9 Hourly Operating Cost (extra hours) weekdays (\$/hour)
- 2.0 Hourly Operating Cost (extra hours) weekends (\$/hour)

- 2.1 Peripheral Services:** These services are outlined into four categories below. Contractor is to provide pricing for the operation and oversight of each peripheral service below.

| | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
|--------|---|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Item # | Service | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month | Contractor's Unit Cost / Month |
| 2.2 | Convenience & Recycling Area Operations | | | | | | | |
| 2.3 | Green/Organic waste processing area | | | | | | | |
| 2.4 | HHW Collection Area | | | | | | | |
| 2.5 | In-Vessel Composting Area | | | | | | | |

Notes: Contractor is required to provide a unit cost for each of the 14 (fourteen) items listed above. (1.1-2.5)
 If a cost adjustment equation (e.g. fuel multiplier) is proposed, summarize the method used to calculate the increases/savings here:

 (provide additional sheets if necessary)

CONTRACTORS CERTIFICATION

Name _____ Title _____
 Signature _____ Date _____

EXHIBIT A

ACKNOWLEDGEMENT OF RECEIPT FORM

REQUEST FOR PROPOSAL

Landfill Operation Services
RFP# FY23-SCPW-03

ACKNOWLEDGEMENT OF RECEIPT FORM

In acknowledgement of receipt of this Request for Proposal the undersigned agrees that s/he has received a complete copy, beginning with the title page and table of contents, and ending with APPENDIX E.

The acknowledgement of receipt should be signed and returned to the Procurement Manager no later than **January 19, 2022** by 5:00 pm (Mountain Standard Time). Only potential Offerors who elect to return this form completed with the indicated intention of submitting a proposal will receive copies of all Offeror written questions and the written responses to those questions as well as RFP amendments, if any are issued.

FIRM: _____

REPRESENTED BY: _____

TITLE: _____ PHONE NO.: _____

E-MAIL: _____ FAX NO.: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

SIGNATURE: _____ DATE: _____

This name and address will be used for all correspondence related to the Request for Proposal.

Firm does/does not (circle one) intend to respond to this Request for Proposal.

Leslie Olivas, Senior Procurement Specialist
Sandoval County
1500 Idalia Road Bldg. D, PO Box 40
Bernalillo, NM 87004
Fax: 505-404-5873
E-mail: ldolivas@sandovalcountynm.gov

EXHIBIT B

LETTER OF TRANSMITTAL FORM

Letter of Transmittal Form

RFP #: FY23-SCPW-03

Bidder Name: _____ **FED ID#:** _____

Items #1 - #7 EACH MUST BE COMPLETED IN FULL

1. **Identity (Name) and Mailing Address** of the submitting organization:

2. For the person authorized by the organization to contractually obligate on behalf of this Offer:

Name _____
Title _____
E-mail Address _____
Telephone Number _____

3. For the person authorized by the organization to negotiate on behalf of this Offer:

Name _____
Title _____
E-mail Address _____
Telephone Number _____

4. For the person authorized by the organization to clarify/respond to queries regarding this Offer:

Name _____
Title _____
E-mail Address _____
Telephone Number _____

5. Use of Sub-Contractors (Select one)

_____ No sub-contractors will be used in the performance of any resultant contract **OR**
_____ The following sub-contractors will be used in the performance of any resultant contract:

(Attach extra sheets, as needed)

6. Please describe any relationship with any entity (other than Sub-contractors list in #5 above) which will be used in the performance of any resultant contract.

(Attach extra sheets, as needed)

7. _____ On behalf of the submitting organization named in item #1, above I accept the Conditions Governing the Procurement.
_____ I concur that submission of our proposal constitutes acceptance of the Evaluation Factors contained in Section V of this RFP.
_____ I acknowledge receipt of any and all amendments to this RFP.

Authorized Signature
(Must be signed by the person identified in item #2, above)

_____, 2022
Date

EXHIBIT C

REPRESENTATIONS AND CERTIFICATIONS

- **CAMPAIGN CONTRIBUTION DISCLOSURE FORM**
- **CONFLICT OF INTEREST AFFIDAVIT FORM**
- **RELATED PARTY DISCLOSURE FORM**
- **DEBARMENT CERTIFICATION FORM**
- **AFFIDAVIT OF NON-COLLUSION FORM**

Campaign Contribution Disclosure Form

Pursuant to NMSA 1978, § 13-1-191.1 (2006), any person seeking to enter into a contract with any state agency or local public body for professional services, a design and build project delivery system, or the design and installation of measures the primary purpose of which is to conserve natural resources must file this form with that state agency or local public body. This form must be filed even if the contract qualifies as a small purchase or a sole source contract. The prospective contractor must disclose whether they, a family member or a representative of the prospective contractor has made a campaign contribution to an applicable public official of the state or a local public body during the two years prior to the date on which the contractor submits a proposal or, in the case of a sole source or small purchase contract, the two years prior to the date the contractor signs the contract, if the aggregate total of contributions given by the prospective contractor, a family member or a representative of the prospective contractor to the public official exceeds one hundred dollars (\$100) over the two year period.

Furthermore, the state agency or local public body shall void an executed contract or cancel a solicitation or proposed award for a proposed contract if: 1) a prospective contractor, a family member of the prospective contractor, or a representative of the prospective contractor gives a campaign contribution or other thing of value to an applicable public official or the applicable public official's employees during the pendency of the procurement process or 2) a prospective contractor fails to submit a fully completed disclosure statement pursuant to the law.

THIS FORM MUST BE FILED BY ANY PROSPECTIVE CONTRACTOR WHETHER OR NOT THEY, THEIR FAMILY MEMBER, OR THEIR REPRESENTATIVE HAS MADE ANY CONTRIBUTIONS SUBJECT TO DISCLOSURE.

The following definitions apply:

“Applicable public official” means a person elected to an office or a person appointed to complete a term of an elected office, who has the authority to award or influence the award of the contract for which the prospective contractor is submitting a competitive sealed proposal or who has the authority to negotiate a sole source or small purchase contract that may be awarded without submission of a sealed competitive proposal.

“Campaign Contribution” means a gift, subscription, loan, advance or deposit of money or other thing of value, including the estimated value of an in-kind contribution, that is made to or received by an applicable public official or any person authorized to raise, collect or expend contributions on that official's behalf for the purpose of electing the official to either statewide or local office. “Campaign Contribution” includes the payment of a debt incurred in an election campaign, but does not include the value of services provided without compensation or unreimbursed travel or other personal expenses of individuals who volunteer a portion or all of their time on behalf of a candidate or political committee, nor does it include the administrative or solicitation expenses of a political committee that are paid by an organization that sponsors the committee.

“Family member” means spouse, father, mother, child, father-in-law, mother-in-law, daughter-in-law or son-in-law.

“Pendency of the procurement process” means the time period commencing with the public notice of the request for proposals and ending with the award of the contract or the cancellation of the request for proposals.

“Person” means any corporation, partnership, individual, joint venture, association or any other private legal entity.

“Prospective contractor” means a person who is subject to the competitive sealed proposal process set forth in the Procurement Code or is not required to submit a competitive sealed proposal because that person qualifies for a sole source or a small purchase contract.

“Representative of a prospective contractor” means an officer or director of a corporation, a member or manager of a limited liability corporation, a partner of a partnership or a trustee of a trust of the prospective contractor.

DISCLOSURE OF CONTRIBUTIONS:

Contribution Made By: _____

Relation to Prospective Contractor: _____

Name of Applicable Public Official: _____

Date Contribution(s) Made: _____

Amount(s) of Contribution(s) _____

Nature of Contribution(s) _____

Purpose of Contribution(s) _____

(Attach extra pages if necessary)

Signature

Date

Title (position)

—OR—

NO CONTRIBUTIONS IN THE AGGREGATE TOTAL OVER ONE HUNDRED DOLLARS (\$100) WERE MADE to an applicable public official by me, a family member or representative.

Signature

Date

Title (Position)

SANDOVAL COUNTY’S CURRENT ELECTED OFFICIALS

Katherine A. Bruch, Commission District 1

Jay C. Block, Commission District 2

Michael Meek, Commission District 3

David J. Heil, Commission District 4

F. Kenneth Eichwald, Commission District 5

Linda P. Gallegos, Assessor

Anne Brady-Romero, Clerk

Charles J. Aguilar, Probate Judge

Jesse James Casaus, Sheriff

Jennifer Taylor, Treasurer

CONFLICT OF INTEREST AFFIDAVIT

STATE OF NEW MEXICO)
) ss.
COUNTY OF SANDOVAL)

I, _____ (name), being first duly sworn upon my oath, depose and state the following:

☐ I am a former employee of _____ (name of Department/Agency), having separated/retired from state employment as of _____ (date).

☐ I am a current employee of _____ (name of Department/Agency), or a legislator with the state, or the family member (spouse, parent, child, sibling by consanguinity or affinity) of a current employee or legislator with the state. Being a current employee or legislator or family member of a current employee or legislator of the state, I hereby certify that I obtained this Agreement pursuant to Sections 10-16-7 or 10-16-9 NMSA 1978, that is, in accordance with the Procurement Code except that this Agreement has NOT been awarded via the sole source or small purchase procurement methods.

The Department/Agency and I have entered into an agreement in the amount of \$ _____.

Section 10-16-8.A(1) NMSA 1978 of the Governmental Conduct Act does not apply to this Agreement because I neither sought a contract with the Department/Agency, nor engaged in any official act which directly resulted in the formation of the Professional Services Agreement while an employee of the Department/Agency.

To the best of my knowledge, this Agreement was awarded in compliance with all relevant provisions of the New Mexico Procurement Code (13-1-28, et. seq., NMSA 1978).

FURTHER, AFFIANT SAYETH NOT.

NAME

Subscribed and sworn to before me by _____ (name of former employee) this
____ day of _____, 20 ____.

NOTARY PUBLIC

My Commission Expires:

☐ Terms of the Conflict of Interest Affidavit are inapplicable.

RELATED PARTY DISCLOSURE FORM

1. Are you indebted to or have a receivable from any member of the Board of Commissioners, elected city officials, administration officials, department heads, and key management supervisors with the Sandoval County?

Yes _____ No _____

2. Are you, or any officer of your company related to any member of the Board of Commissioners, elected city officials, administration officials, department heads, key management supervisors of the Sandoval County and have you had any of the following transactions since January 1, 2020, to which the Sandoval County was or is to be, a party?

| | Yes | No |
|---|-------|-------|
| Sales, purchase or leasing of property? | _____ | _____ |
| Receiving, furnishing of goods, services or facilities? | _____ | _____ |
| Commissions or royalty payments? | _____ | _____ |

3. Does any member of the Board of Commissioners; elected city officials, administration officials, department heads, key management supervisors with the Sandoval County, have any financial interest in your company whether a sole proprietorship, partnership, or corporation of any kind that currently conducts business with the Sandoval County?

Yes _____ No _____

4. At any time from January 2020 through the present, did you, your company, or any officer of your company have an interest in or signature authority over a bank account for the benefit of a member of the Board of Commissioners; elected city officials, administration officials, department heads, key management supervisors with the Sandoval County?

Yes _____ No _____

5. Are you negotiating to employ, or do you currently employ any employee, officer or family member of an employee or officer of the Sandoval County?

Yes _____ No _____

The answers to the foregoing questions are correctly stated to the best of my knowledge and belief.

Signature of Owner or Company President: _____ **Date** _____

(Print Name and Title): _____

DEBARMENT CERTIFICATION FORM

1. The Contractor certifies that it is not suspended, debarred or ineligible from entering into contracts with the Executive Branch of the Federal Government, or in receipt of a notice or proposed debarment from any Agency.
2. The Contractor agrees to provide immediate notice to Sandoval County Public Works Department in the event of being suspended, debarred or declared ineligible by any department or Federal Agency, or upon receipt of a notice of proposed debarment that is received after the submission of the quote or offer but prior to the award of the purchase order or contract.

Certification

The undersigned hereby certifies that he/she has read the above Debarment Certification requirements and that he/she understands and will comply with these requirements. The undersigned further certifies that they have the authority to certify compliance for the Contractor named below.

Signature: _____ Title: _____

Name Typed: _____ Date: _____

Company: _____ City _____

NON-COLLUSION AFFIDAVIT

STATE OF NEW MEXICO)

) ss.

COUNTY OF SANDOVAL)

_____ being first duly sworn, deposes and says that
he/she is (title) _____

of (organization) _____

who submits herewith to the County, a proposal:

That all statements of fact in such proposal are true:

That said proposal was not made in the interest of or on behalf of any undisclosed person, partnership, company, association, organization or corporation;

That said bidder has not, directly or indirectly by agreement, communication or conference with anyone attempted to induce action prejudicial to the interest of the Sandoval County, or of any bidder of anyone else interested in the proposed contract; and further,

That prior to the public opening and reading of proposal, said bidder:

1. Did not directly or indirectly, induce or solicit anyone else to submit a false or sham proposal;
2. Did not directly or indirectly collude, conspire, connive or agree with anyone else that said bidder or anyone else would submit a false or sham proposal, or that anyone should refrain from bidding or withdraw his proposals;
3. Did not in any manner, directly or indirectly, seek by agreement, communication or conference with anyone to raise or fix the proposal price of said bidder or of anyone else, or to raise or fix any overhead, profit or cost element of their proposal price, or of that of anyone else;
4. Did not directly or indirectly, submit his proposed price or any breakdown thereof, or the contest thereof, or divulge information or data relative thereto, to any corporation, partnership, company, association organization, bid depository or to any member or agent thereof, or to any individual or group of individuals, except the Sandoval County, or to any person or persons who have a partnership or other financial interests with said bidder in his business.

By: _____

Title _____

SUBSCRIBED and sworn to before me this _____ day of _____, 20____.

Notary Public: _____

My Commission Expires: _____

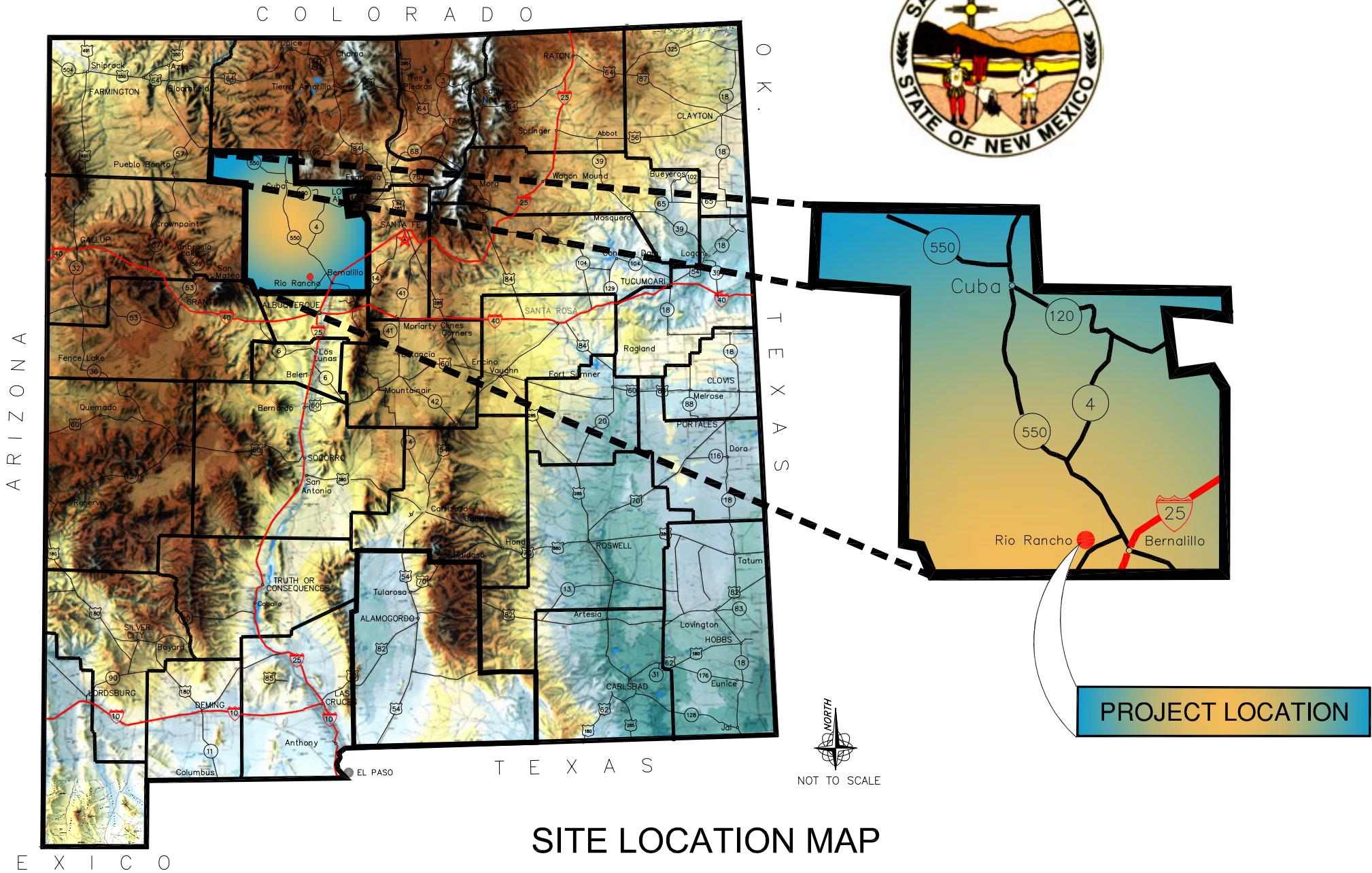
EXHIBIT D

ENGINEERING PLANS: 2015 APPLICATION FOR PERMIT

APPLICATION FOR PERMIT RENEWAL AND MODIFICATION FOR SANDOVAL COUNTY LANDFILL



| SHEET | TITLE |
|-------|--|
| 1 | COVER SHEET & DRAWING INDEX |
| 2 | SITE PLAN - EXISTING SITE CONDITIONS |
| 3 | SITE DEVELOPMENT PLAN |
| 4 | SITE DEVELOPMENT PLAN - UNIT IV |
| 5 | BASE GRADING PLAN - UNIT IV |
| 6 | LINER DETAILS |
| 7 | LINER & LEACHATE COLLECTION SYSTEM DETAILS |
| 8 | LEACHATE COLLECTION SYSTEM PLAN |
| 9 | LEACHATE COLLECTION SYSTEM DETAILS |
| 10 | FINAL GRADING PLAN |
| 11 | FINAL DRAINAGE PLAN |
| 12 | DRAINAGE DETAILS |
| 13 | CROSS-SECTIONS |



SITE LOCATION MAP

NOT FOR CONSTRUCTION
Drawing: P:\acad 2003\211.00.01\PERMIT PLAN SET\UNIT IV RAI101 COVER UNIT IV.dwg
Date/Time: Feb. 01, 2016-07:22:58
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I. KEITH GORDON, P.E.
N.M. PROFESSIONAL ENGINEER NO. 10984
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COVER SHEET & DRAWING INDEX

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers

213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

| | | |
|------------------|-------------------|----------------------|
| DATE: 04/14/2015 | CAD: 01 COVER.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | DESIGNED BY: MRH | |
| APPROVED BY: IKG | get@gordonenv.com | SHEET 1 of 13 |



LEGEND

- PROPERTY BOUNDARY (178.3 ACRES)
- EXISTING UNIT LIMIT OF WASTE
- CELL BOUNDARY
- PERMIT MODIFICATION AND RENEWAL LIMIT OF WASTE (122.5 ACRES±)
- UNIT IV EDGE OF LINER
- UNIT IV BOUNDARY
- UNIT IV OVERFILL AREA
- UNIT IV BASE GRADING AREA
- EXISTING UNITS I, II & III
- 10' EXISTING GRADE CONTOUR
- 2' EXISTING GRADE CONTOUR
- EXISTING CULVERT
- EXISTING FENCE
- PAVED ROAD
- UNPAVED ROAD
- UTILITY EASEMENT BOUNDARY
- FORMER UTILITY EASEMENT BOUNDARY
- EXISTING LEACHATE COLLECTION PIPE & TRENCH
- EXISTING LEACHATE COLLECTION SYSTEM RISER PIPE
- PROPOSED LEACHATE COLLECTION PIPE & TRENCH
- PROPOSED LEACHATE COLLECTION SYSTEM RISER PIPE
- STORMWATER FLOW
- STORMWATER BASIN
- EXISTING POWER POLE
- FIRE HYDRANT (3)
- EXISTING GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (DECOMMISSIONED)
- EXISTING LFG GAS PROBE (ACTIVE)
- EXISTING LFG GAS PROBE (INACTIVE)
- LFG GAS PROBE (DECOMMISSIONED)
- SURVEY CONTROL POINT
- SITE GRID
- CROSS-SECTION LOCATIONS

NOTES

- AERIAL TOPOGRAPHIC SURVEY BY AEROTECH MAPPING INC., 6565 AMERICAN PARKWAY N.E., ALBUQUERQUE, NM 87111
PHONE: (520-561-6537) FAX (505-256-3328)
EMAIL: TimBurrows@atmlv.com
DATE OF PHOTOGRAPHY: 01-13-2014.
- SURVEY CONTROL POINTS BY : SURVEYING CONTROL, INC., 131 MADISON ST. N.E., ALBUQUERQUE, NM 87108
PHONE: (505-266-0935) FAX (505-266-9985) DATE OF SURVEY: 01-13-2014
- THE COUNTY MAY ELECT TO RETAIN THE EXISTING OVERHEAD STRUCTURE AT THE EAST END OF UNIT IV AS A COMMUNICATIONS TOWER. IN THAT EVENT, FUTURE CONSTRUCTION PLANS WILL ADDRESS THE EXISTENCE OF THIS FEATURE.

CONTROL POINT DATA

| POINT | NORTHING | EASTING | PANEL ELEVATION | DESCRIPTION |
|-------|------------|------------|-----------------|-------------|
| 501 | 1567982.35 | 1527461.08 | 5370.34 | PP-501 |
| 502 | 1570293.88 | 1531074.96 | 5354.66 | PP-502 |
| 503 | 1567798.82 | 1529894.61 | 5369.53 | PP-503 |
| 504 | 1565822.71 | 1528883.42 | 5316.47 | PP-504 |
| 505 | 1567834.53 | 1532385.04 | 5371.17 | PP-505 |

NOTES

- ALL POINTS ARE FLUSH WITH THE GROUND.
- THE COORDINATES AND ELEVATIONS FOR THE PHOTO CONTROL POINTS ON THE ABOVE REFERENCED PROJECT, THE COORDINATES ARE MODIFIED (SURFACE) NEW MEXICO STATE PLANE COORDINATES - CENTRAL ZONE, NAD 83 (NAD83), AND HAVE BEEN ADJUSTED TO NGS MONUMENTS "TAGLINE" TO OBTAIN TRUE STATE PLANE GRID COORDINATES. MULTIPLY THE COORDINATES BELOW BY THE PROJECT AVERAGE COMBINED FACTOR OF 0.999961430. THE ELEVATIONS ARE NAVD 86, AND HAVE BEEN ADJUSTED TO THE NGS 1ST ORDER BENCHMARK "S424". THE COORDINATES AND ELEVATIONS ARE EXPRESSED IN U. S. SURVEY FEET.

GROUNDWATER MONITORING WELL LOCATIONS

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|------------|------------|-----------|-----------------|
| MW-1 | 1566727.43 | 1530025.09 | 5322.45 | MONITORING WELL |
| MW-2 | 1568159.63 | 1531290.50 | 5414.11 | MONITORING WELL |
| MW-3 | 1567315.31 | 1531064.87 | 5374.32 | MONITORING WELL |
| MW-5 | 1567869.24 | 1528110.28 | 5362.38 | MONITORING WELL |
| MW-6 | 1568758.30 | 1530695.17 | 5421.90 | MONITORING WELL |
| MW-7 | 1569394.69 | 1531377.96 | 5363.30 | MONITORING WELL |

NOTES

- THE COORDINATES AND ELEVATIONS FOR THE GROUNDWATER MONITORING WELL LOCATIONS ON THE ABOVE TABLE, ARE MODIFIED (SURFACE) NEW MEXICO STATE PLANE COORDINATES - CENTRAL ZONE, NAD 83, SURVEY DATA OBTAINED BY TIM MARTINEZ SURVEYING ON 3-28-2015. THE COORDINATES AND ELEVATIONS ARE EXPRESSED IN U. S. SURVEY FEET.

NOT FOR CONSTRUCTION
Drawing: P:\acad 2003\211.00.01\PERMIT PLAN SET\UNIT IV\RA1103 SITE PLAN UNIT IV.dwg
Date/Time: Feb. 01, 2016 07:33:02 - LAYOUT: 3-SiteDev
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I. KEITH GORDON, P.E.
N.M. PROFESSIONAL ENGINEER NO. 10984

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SITE DEVELOPMENT PLAN

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

| | | |
|--|---|-------------------------------|
|  <div>Gordon Environmental, Inc. Consulting Engineers</div> | 213 S. Camino del Pueblo Bernalillo, New Mexico, USA Phone: 505-867-6990 Fax: 505-867-6991 | |
| | DATE: 01/18/2016 | CAD: 03 Site Plan Unit IV.dwg |
| | DRAWN BY: DMJ | REVIEWED BY: CRK |
| | APPROVED BY: IKG | get@gordonenvironmental.com |
| PROJECT #: 211.00.01 | | |
| SHEET 3 of 13 | | |



LEGEND

PROPERTY BOUNDARY (178.3 ACRES)

EXISTING UNIT LIMIT OF WASTE

CELL BOUNDARY

PERMIT MODIFICATION AND RENEWAL LIMIT OF WASTE (122.5 ACRES±)

UNIT IV EDGE OF LINER

UNIT IV BOUNDARY

UNIT IV OVERFILL AREA

UNIT IV BASE GRADING AREA

EXISTING UNITS I, II & III

10' EXISTING GRADE CONTOUR

2' EXISTING GRADE CONTOUR

10' UNIT III INTERMEDIATE GRADE CONTOUR

2' UNIT III INTERMEDIATE GRADE CONTOUR

10' UNIT IV BASE GRADE CONTOUR

2' UNIT IV BASE GRADE CONTOUR

10' UNIT IV OVERFILL GRADE CONTOUR

2' UNIT IV OVERFILL GRADE CONTOUR

EXISTING CULVERT

EXISTING FENCE

PAVED ROAD (EXISTING)

UNPAVED ROAD (EXISTING)

UTILITY EASEMENT BOUNDARY

FORMER UTILITY EASEMENT BOUNDARY

UNIT IV LEACHATE COLLECTION PIPE & TRENCH & DIRECTION OF FLOW

UNIT IV LEACHATE COLLECTION SYSTEM RISER PIPE

STORMWATER CONTROL CHANNEL (EXISTING)

STORMWATER BASIN (EXISTING)

EXISTING POWER POLE

EXISTING FIRE HYDRANT (3)

EXISTING GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (DECOMMISSIONED)

EXISTING LFG GAS PROBE (ACTIVE)

EXISTING LFG GAS PROBE (INACTIVE)

LFG GAS PROBE (DECOMMISSIONED)

SURVEY CONTROL POINT

SITE GRID

CROSS-SECTION LOCATIONS

| CONTROL POINT DATA | | | | |
|--------------------|------------|------------|-----------------|-------------|
| POINT | NORTHING | EASTING | PANEL ELEVATION | DESCRIPTION |
| 501 | 1567982.35 | 1527461.08 | 5370.34 | PP-501 |
| 502 | 1570293.88 | 1531074.96 | 5354.66 | PP-502 |
| 503 | 1567798.82 | 1529894.61 | 5369.53 | PP-503 |
| 504 | 1565822.71 | 1528883.42 | 5316.47 | PP-504 |
| 505 | 1567834.53 | 1532385.04 | 5371.17 | PP-505 |

NOTES:
1. ALL POINTS ARE FLUSH WITH THE GROUND.
2. THE COORDINATES AND ELEVATIONS FOR THE PHOTO CONTROL POINTS ON THE ABOVE REFERENCED PROJECT. THE COORDINATES ARE MODIFIED (SURFACE) NEW MEXICO STATE PLANE COORDINATES - CENTRAL ZONE, NAD 83 (NAD83/2007), AND HAVE BEEN ADJUSTED TO NGS MONUMENTS "BAGLARI", TO OBTAIN TRUE STATE PLANE GRID COORDINATES. MULTIPLY THE COORDINATES BELOW BY THE PROJECT AVERAGE COMBINED FACTOR OF 0.999861430. THE ELEVATIONS ARE NAVD 88, AND HAVE BEEN ADJUSTED TO THE NGS 1ST ORDER BENCHMARK "5424". THE COORDINATES AND ELEVATIONS ARE EXPRESSED IN U. S. SURVEY FEET.

| GROUNDWATER MONITORING WELL LOCATIONS | | | | |
|---------------------------------------|------------|------------|-----------|-----------------|
| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| MW-1 | 1566727.43 | 1530025.09 | 5322.45 | MONITORING WELL |
| MW-2 | 1568159.63 | 1531290.50 | 5414.11 | MONITORING WELL |
| MW-3 | 1567315.31 | 1531064.87 | 5374.32 | MONITORING WELL |
| MW-5 | 1567869.24 | 1528110.28 | 5362.38 | MONITORING WELL |
| MW-6 | 1568758.30 | 1530695.17 | 5421.90 | MONITORING WELL |
| MW-7 | 1569394.69 | 1531377.96 | 5363.30 | MONITORING WELL |

NOTES:
1. THE COORDINATES AND ELEVATIONS FOR THE GROUNDWATER MONITORING WELL LOCATIONS ON THE ABOVE TABLE ARE MODIFIED (SURFACE) NEW MEXICO STATE PLANE COORDINATES - CENTRAL ZONE, NAD 83. SURVEY DATA OBTAINED BY TIM MARTINEZ SURVEYING ON 3-26-2015. THE COORDINATES AND ELEVATIONS ARE EXPRESSED IN U. S. SURVEY FEET.

UPDATED JANUARY 2016

SITE DEVELOPMENT PLAN

UNIT IV

SANDOVAL COUNTY LANDFILL

RIO RANCHO, NEW MEXICO

Gordon Environmental, Inc.

Consulting Engineers

DATE: 01/29/2016

DRAWN BY: DMI

APPROVED BY: JKG

CAD: BASE GRADES.dwg

REVIEWED BY: CRK

gsl@gordonenvironmental.com

213 S. Camino del Pueblo

Bernalillo, New Mexico, USA

Phone: 505-867-6990

Fax: 505-867-6991

PROJECT #:

211,00,01

SHEET 4 OF 13

| TABLE 1 UNIT ACREAGES | |
|--------------------------|--------------|
| UNIT I | 29.4 ACRES± |
| UNIT II | 19.5 ACRES± |
| UNIT III | 63.6 ACRES± |
| UNIT IV | 10.0 ACRES± |
| (FORMER PNM EASEMENT) | |
| TOTAL | 122.5 ACRES± |

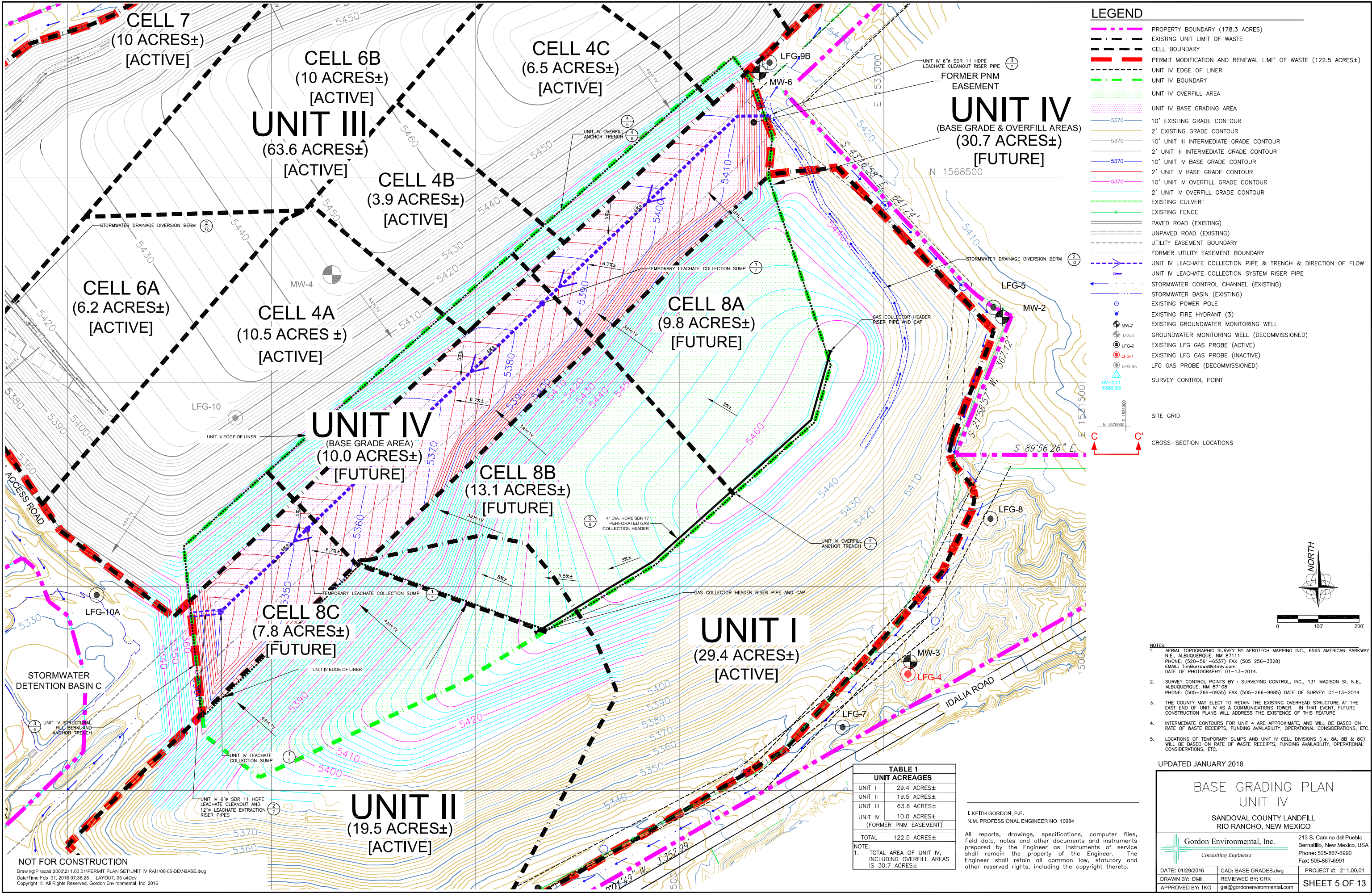
NOTE:
1. TOTAL AREA OF UNIT IV, INCLUDING OVERFILL AREAS IS 30.7 ACRES±

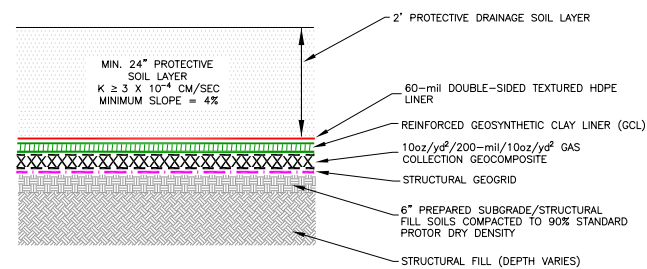
I. KEITH GORDON, P.E.
N.M. PROFESSIONAL ENGINEER NO. 10984

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Drawing:P:\acad 2003\211.00.01\PERMIT PLAN SET\UNIT IV\104 SiteDevUnit4.dwg
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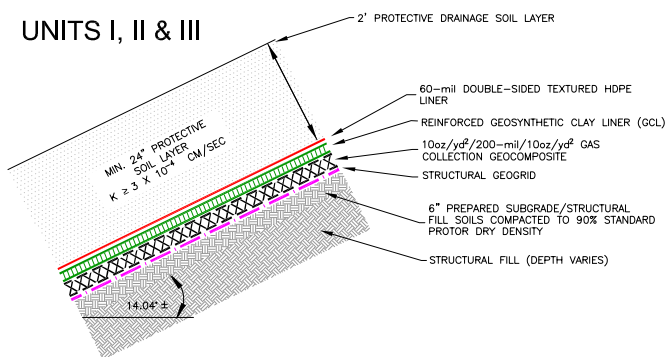




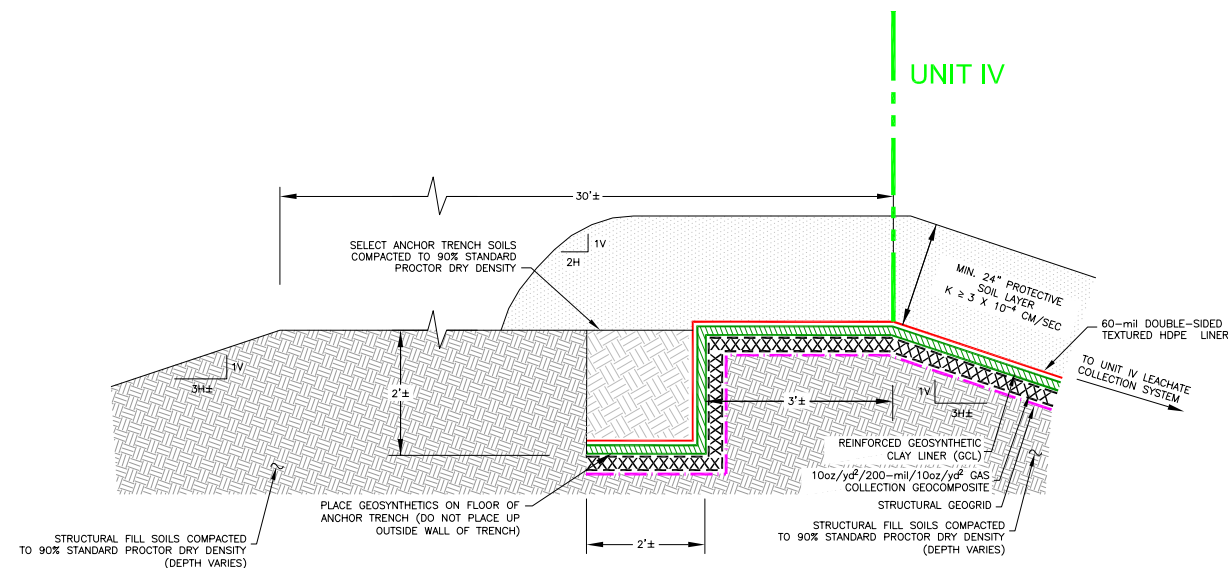
1
6

BASE LINER SYSTEM

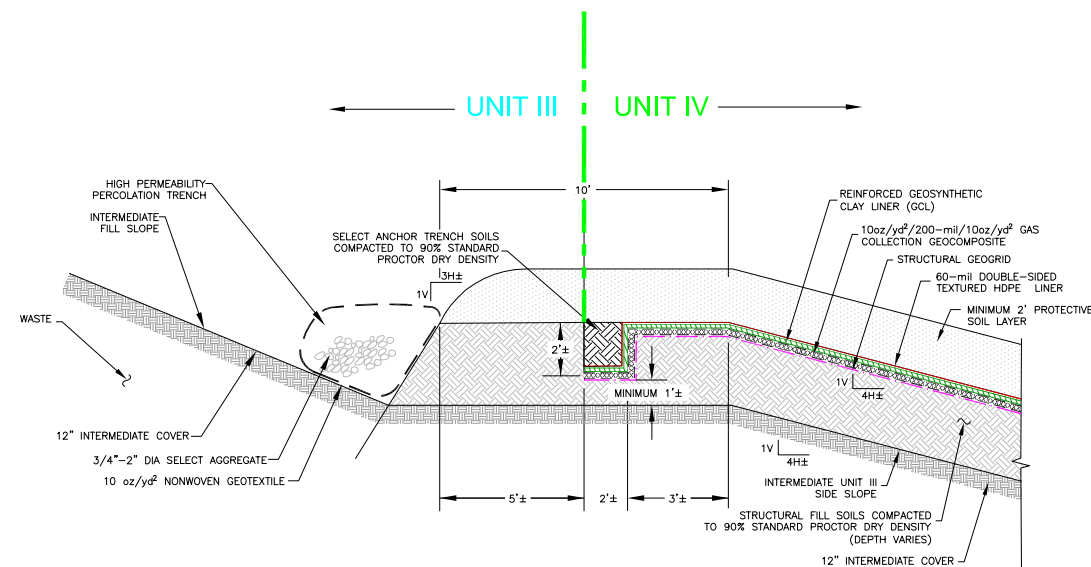
SECTION VIEW NOT TO SCALE



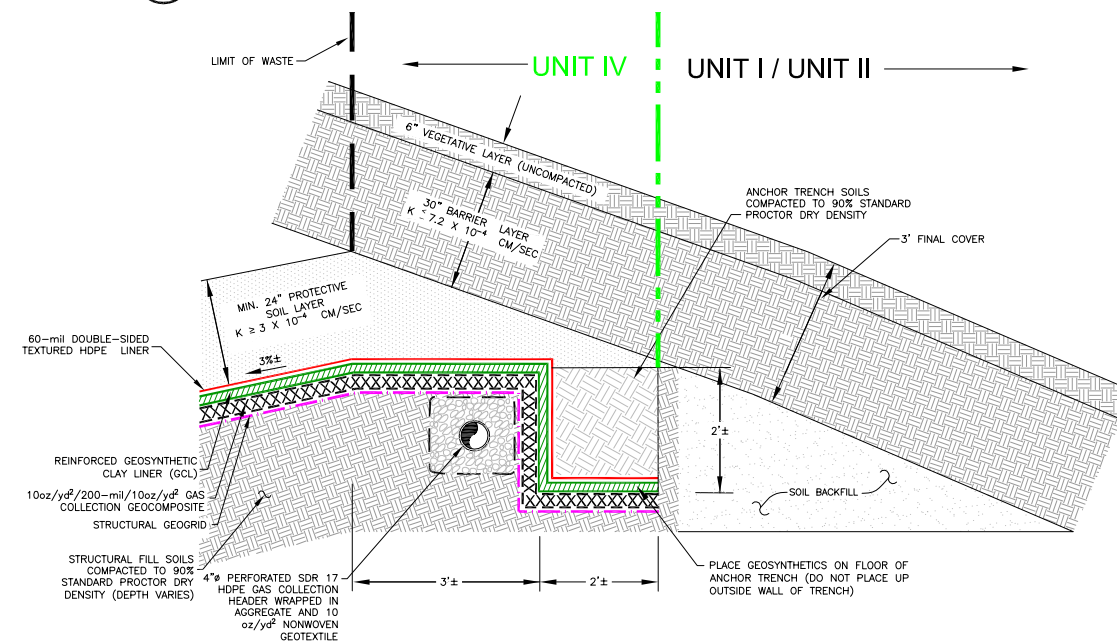
2 SIDEWALL LINER SYSTEM
6 NOT TO SCALE



3 UNIT IV STRUCTURAL FILL BERM AND ANCHOR TRENCH
6 SECTION VIEW NOT TO SCALE



UNIT IV-UNIT III STRUCTURAL FILL BERM AND ANCHOR TRENCH DETAIL




UNIT IV ANCHOR TRENCH AND
PERFORATED GAS COLLECTION HEADER

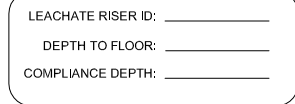
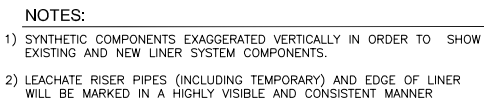
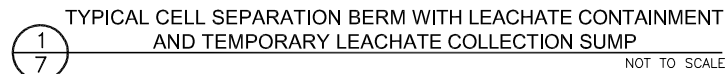
5
6 SECTION VIEW NOT TO SCALE

1. TEXTURED FML SHALL BE USED ON ALL SLOPES AND FLOOR.
2. THE SEAM ON THE CELL FLOOR BETWEEN THE TEXTURED AND SMOOTH GEOMEMBRANE SHALL BE LOCATED AT LEAST 10 FT FROM THE TOE OF THE SLOPE.
3. ANY LINER PANEL DOUBLE FUSION WELD SEAMS RUNNING PARALLEL TO THE LEACHATE PIPE SHALL BE LOCATED AT LEAST 5 FT FROM THE PIPE.
4. A MAXIMUM 6" OVERLAP IS REQUIRED AT EACH DOUBLE FUSION WELD SEAM. TYPICAL PANEL DIMENSION NOT INCLUDING OVERLAP IS 22.5 FT. (LENGTH VARIES).
5. THE CONTRACTOR SHALL MINIMIZE THE NUMBER OF SEAMS ORIENTED PERPENDICULAR TO THE DIRECTION OF MAXIMUM SLOPE.
6. LINER ANCHOR TRENCH IS LOCATED APPROXIMATELY 3 FEET OUTSIDE OF THE TOP OF THE LINER SIDESLOPE.
7. ALL GCL PANELS SHALL OVERLAP THE ADJACENT PANELS BY THE FOLLOWING MINIMUM AMOUNTS:
 - A. CELL FLOOR: 9" OR USE OF WINNING EDGE @
 - B. CELL SIDE SLOPES: 12"

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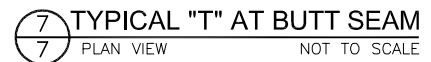
| | | |
|--|-----------------------------|---|
|  <p>Gordon Environmental, Inc. <i>Consulting Engineers</i></p> | | <p>213 S. Camino del Pueblo Bernalillo, New Mexico, USA Phone: 505-867-6990 Fax: 505-867-6991</p> |
| DATE: 01/18/2016 | CAVED: 06 LINER DETS.dwg | PROJECT #: 211,00,01 |
| DRAWN BY: DMI | REVIEWED BY: CRK | |
| APPROVED BY: IKG | get@gordonenvironmental.com | SHEET 6 of 13 |

Drawing: P:\acad 2003\211.00.01\PERMIT PLAN SET\UNIT IV RAI\06 LINER DETS UNIT IV.dwg
Date/Time: Feb. 01, 2016-07:34:13
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LEACHATE RISER LABEL

NOTE:
AN IDENTIFICATION TAG WITH THIS INFORMATION
WILL BE AFFIXED TO THE APPROPRIATE
LEACHATE RISER LOCATION



UPDATED JANUARY 2016

LINER & LEACHATE COLLECTION SYSTEM DETAILS

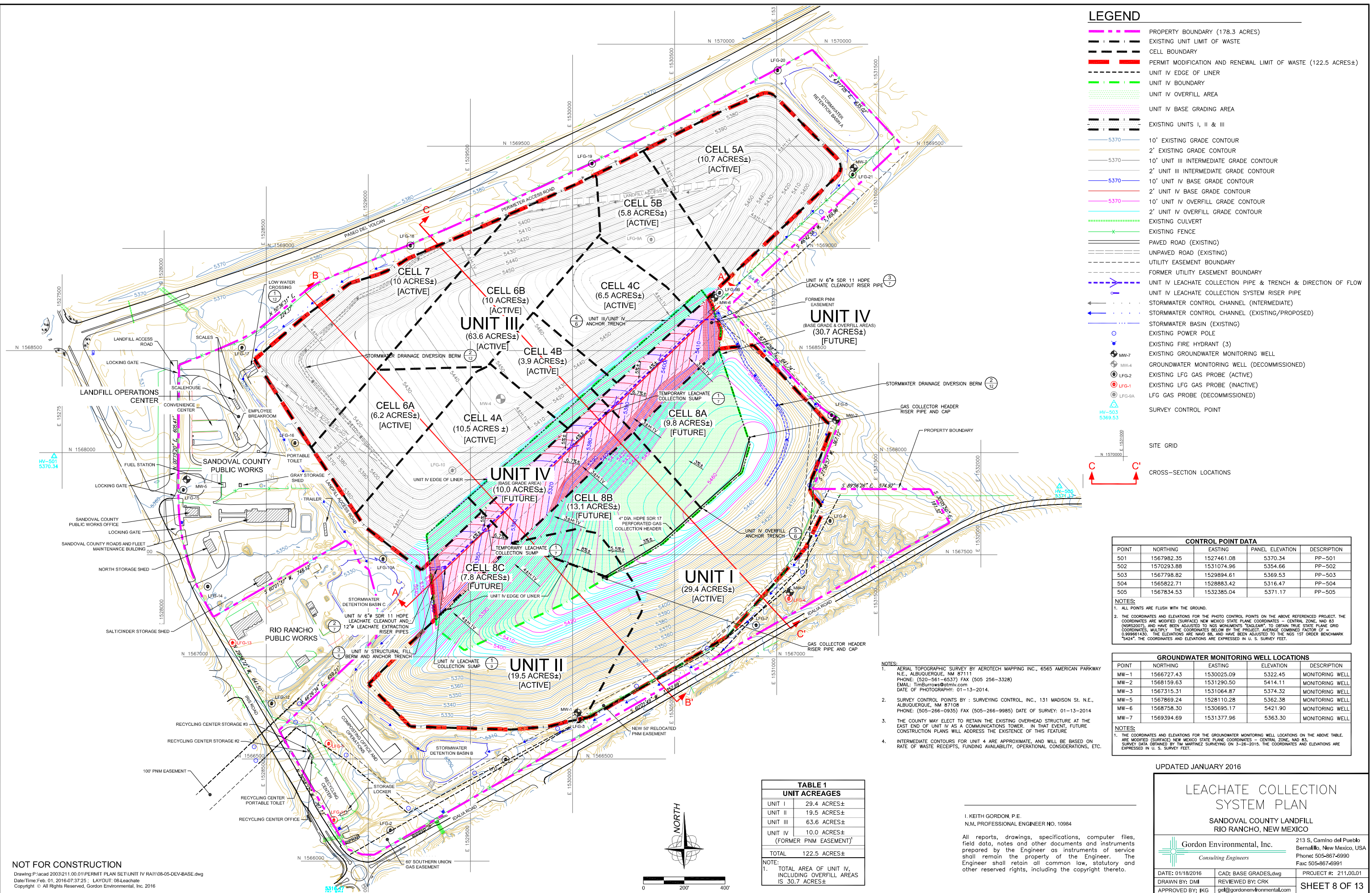
SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

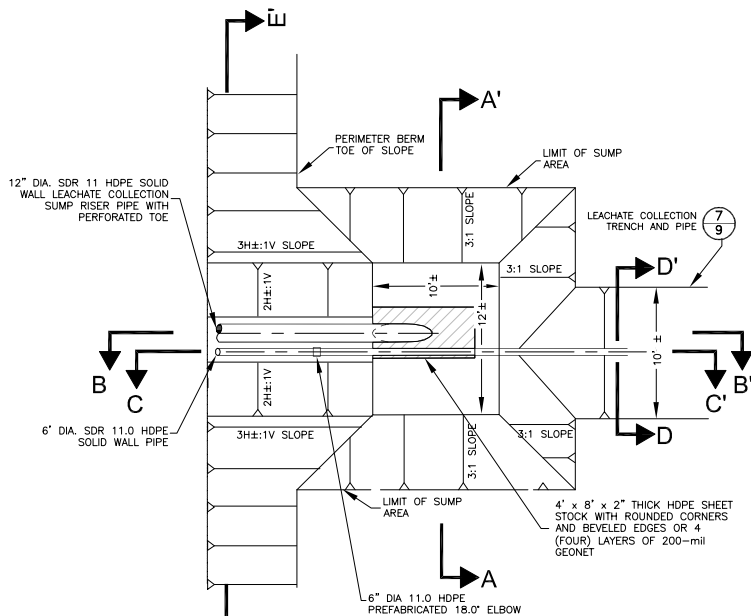
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

I. KEITH GORDON, P.E.
N.M. PROFESSIONAL ENGINEER NO. 10984

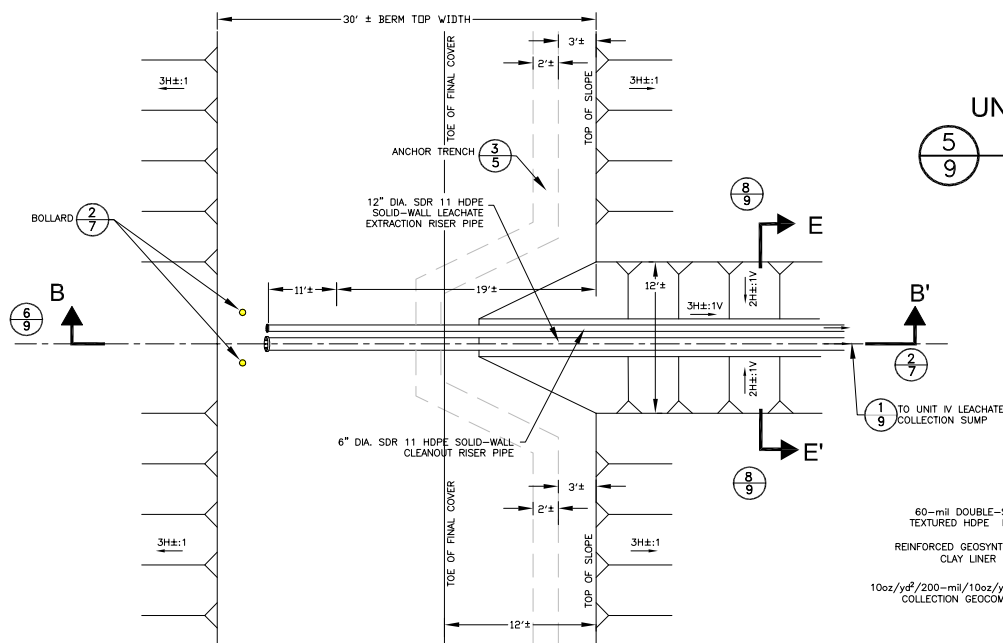
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| | | |
|------------------|-------------------------------|--|
| DATE: 01/18/2016 | CAD:07 LINER & LEACH DETS.dwg | PROJECT #: 211.14.03 SHEET 7 of 13 |
| DRAWN BY: DMI | REVIEWED BY: CRK | |
| APPROVED BY: IKG | gel@gordonenvironmental.com | |

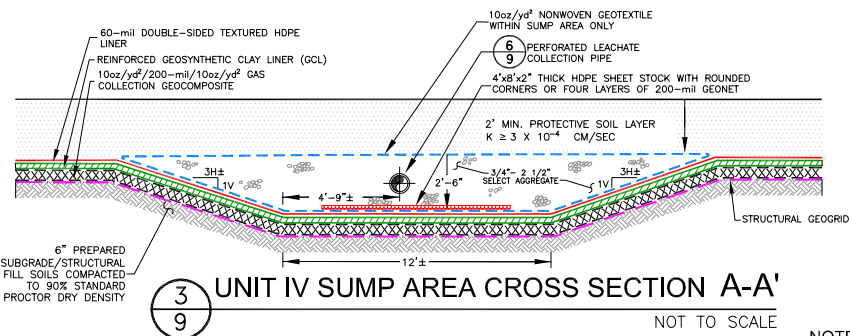




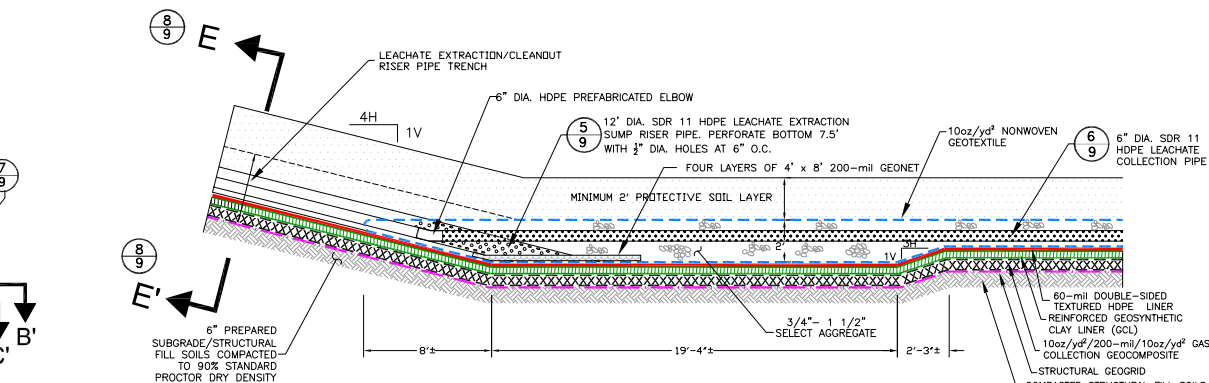
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9
UNIT IV LEACHATE SUMP PLAN
NOT TO SCALE



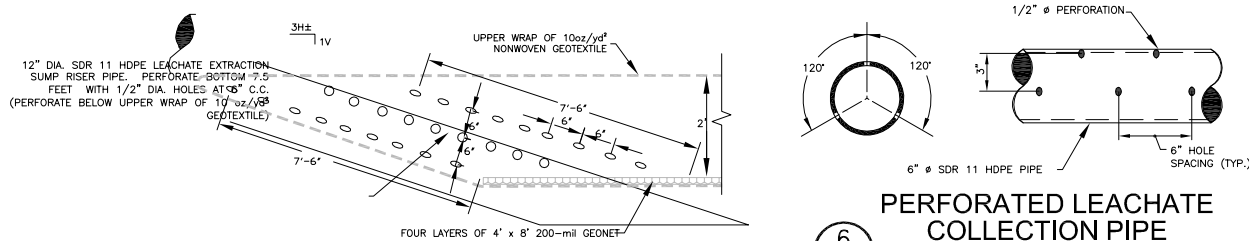
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UNIT IV LEACHATE EXTRACTION CLEANOUT
EXTRACTION RISER PIPE PLAN
NOT TO SCALE



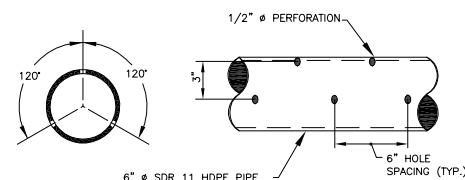
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UNIT IV SUMP AREA CROSS SECTION A-A'
NOT TO SCALE



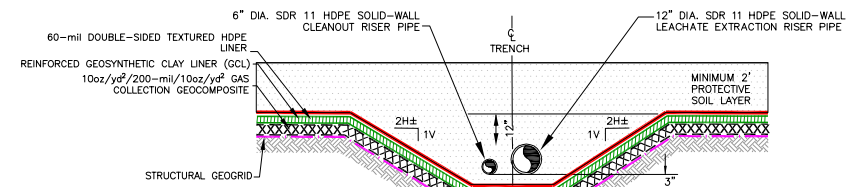
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9
LEACHATE COLLECTION SUMP AND EXTRACTION CLEANOUT
RISER PIPE CROSS SECTION C-C'
NOT TO SCALE



5
9
UNIT IV PERFORATED LEACHATE
EXTRACTION PIPE
NOT TO SCALE



6
9
PERFORATED LEACHATE
COLLECTION PIPE
NOT TO SCALE

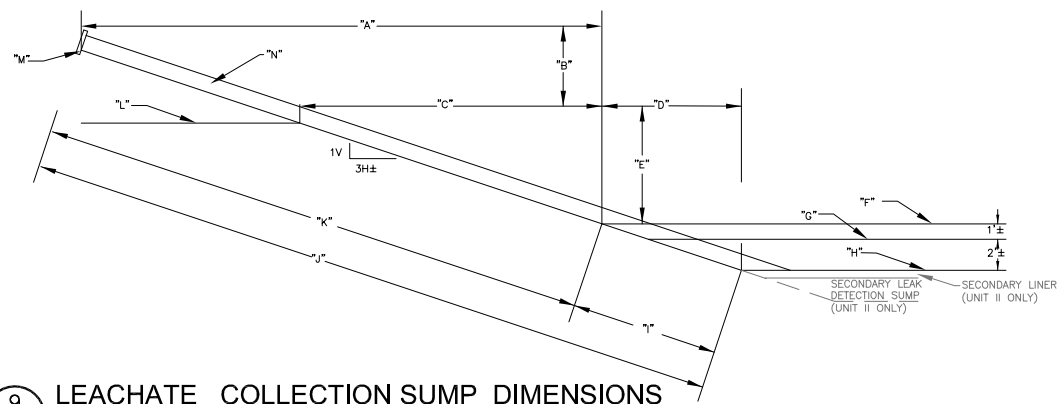


8
9
UNIT IV LEACHATE EXTRACTION/CLEANOUT
RISER PIPE CROSS SECTION E-E'
NOT TO SCALE

LEACHATE RISER ID: _____
DEPTH TO FLOOR: _____
COMPLIANCE DEPTH: _____

LEACHATE RISER LABEL

NOTE:
AN IDENTIFICATION TAG WITH THIS INFORMATION
WILL BE AFFIXED TO THE APPROPRIATE
LEACHATE RISER LOCATION



9
9
LEACHATE COLLECTION SUMP DIMENSIONS
DIMENSIONS NOT TO SCALE

LEACHATE COLLECTION SUMP DIMENSIONS SANDOVAL COUNTY LANDFILL

| DIMENSION | DESCRIPTION | APPROXIMATE AS-BUILT DIMENSIONS | | | | | APPROXIMATE PROPOSED DIMENSIONS |
|-----------|--|---------------------------------|-----------------|-----------------|-------------------|-----------------|---------------------------------|
| | | EXISTING SUMPS | | | | | PROPOSED SUMP |
| | | UNIT II | CELL 4A | CELL 5A | CELL 6A | CELL 7 | UNIT IV |
| A | | 105.3' | 57.8' | 107.7' | 100.7' | 96.6' | 88.0' |
| B | | 3.0' | 7.0' | 3.0' | 3.0' | 4.7' | 3.0' |
| C | | 93.3' | 29.8' | 95.7' | 88.7' | 77.8' | 76.0' |
| D | | 12.0' | 12.0' | 12.0' | 12.0' | 12.0' | 12.0' |
| E | | 23.3' | 7.5' | 23.9' | 22.2' | 19.5' | 19.0' |
| F | Elevation 12" Head on Liner | 5285 | 5326 | 5334 | 5329 | 5337 | 5341 |
| G | Elevation Top of Liner | 5284 | 5325 | 5333 | 5328 | 5336 | 5340 |
| H | Elevation Sump Invert | 5282 | 5323 | 5331 | 5226 | 5334 | 5338 |
| I | | 12.4' | 12.4' | 12.4' | 12.4' | 12.4' | 12.4' |
| J | Riser Length | 120.9' | 72.0' | 123.4' | 116.2' | 112.0' | 103.1' |
| K | Leachate Compliance Length | 108.5' | 59.6' | 111.0' | 103.8' | 99.6' | 90.7' |
| L | Elevation Existing/Proposed Grade | 5308.3 | 5333.5 | 5357.9 | 5351.2 | 5356.5 | 5360 |
| M | Elevation Leachate Extraction Riser Pipe | 5311.3 | 5340.5 | 5360.9 | 5354.2 | 5361.2 | 5363 |
| N | Leachate Extraction Riser Pipe | 8" SCH 80 PVC | 12" SDR 17 HDPE | 12" SDR 17 HDPE | 12" SDR 15.5 HDPE | 12" SDR 17 HDPE | 12" SDR 11 HDPE |

NOTES:

- PROTECTIVE SOIL LAYER MATERIAL IN CONTACT WITH THE GEOMEMBRANE SHALL HAVE ROUNDED PARTICLE SHAPES TO AVOID POSSIBLE LINER DAMAGE.
- THE PROTECTIVE SOIL LAYER ON THE LANDFILL FLOOR TO CONSIST OF A NON-CALCAREOUS EARTHFILL WITH $\leq 15\%$ PASSING THE NO. 200 SIEVE BY WEIGHT AND $C_u < 7.5$.
- AGGREGATE USED IN THE LEACHATE COLLECTION SYSTEM SUMPS AND LEACHATE COLLECTION SYSTEM TRENCHES TO BE A CLEAN NON-CALCAREOUS GRANULAR MATERIAL LESS THAN 2% PASSING THE 3/4" SIEVE, AND TO HAVE A MAXIMUM PARTICLE SIZE OF 2 1/2".
- CARE TO BE EXERCISED WHEN PLACING SOIL ABOVE THE GEOMEMBRANE COMPONENT OF THE BASE LINER SYSTEM IN THE ANCHOR TRENCH AREA.
- ALL DIMENSIONS ARE MINIMUM VALUES UNLESS SPECIFIED OTHERWISE.
- INSTALL PERFORATED LEACHATE COLLECTION PIPE WITH ONE ROW OF PERFORATIONS FACING UP.

I. KEITH GORDON, P.E.
N.M. PROFESSIONAL ENGINEER NO. 10984

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LEACHATE COLLECTION SYSTEM DETAILS

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers

213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

DATE: 02/01/2016
DRAWN BY: DMI
APPROVED BY: IKG
CAD: 09LEACH.DETS.dwg
REVIEWED BY: CRK
PROJECT #: 211.14.03
SHEET 9 of 13

NOT FOR CONSTRUCTION

Drawing: P:\acad 2003\211.00.01\PERMIT PLAN SET\UNIT IV RAI\109 LEACH DETS UNIT IV.dwg
Date/Time: Feb. 01, 2016-10:54:24
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LEGEND

- PROPERTY BOUNDARY (178.3 ACRES)
- EXISTING UNIT LIMIT OF WASTE
- CELL BOUNDARY
- PERMIT MODIFICATION AND RENEWAL LIMIT OF WASTE (122.5 ACRES±)
- UNIT IV EDGE OF LINER
- UNIT IV AREA
- 10' EXISTING GRADE CONTOUR
- 2' EXISTING GRADE CONTOUR
- 10' FINAL GRADE CONTOUR
- 2' FINAL GRADE CONTOUR
- EXISTING CULVERT
- EXISTING FENCE
- PAVED ROAD (EXISTING)
- UNPAVED ROAD (EXISTING)
- UTILITY EASEMENT BOUNDARY
- FORMER UTILITY EASEMENT BOUNDARY
- EXISTING LEACHATE COLLECTION PIPE & TRENCH & DIRECTION OF FLOW
- EXISTING LEACHATE COLLECTION SYSTEM RISER PIPE
- UNIT IV LEACHATE COLLECTION PIPE & TRENCH & DIRECTION OF FLOW
- UNIT IV LEACHATE COLLECTION SYSTEM RISER PIPE
- STORMWATER CONTROL CHANNEL
- STORMWATER BASIN (EXISTING)
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT (3)
- EXISTING GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (DECOMMISSIONED)
- EXISTING LFG GAS PROBE (ACTIVE)
- EXISTING LFG GAS PROBE (INACTIVE)
- LFG GAS PROBE (DECOMMISSIONED)
- SURVEY CONTROL POINT
- HY-503 5369.53
- SITE GRID
- CROSS SECTION LOCATIONS

- NOTES:**
- AERIAL TOPOGRAPHIC SURVEY BY AEROTECH MAPPING INC., 6565 AMERICAN PARKWAY N.E., ALBUQUERQUE, NM 87111
PHONE: (520-561-6537) FAX (505-256-3328)
EMAIL: TimBurrows@aerotech.com
DATE OF PHOTOGRAPHY: 01-13-2014.
 - SURVEY CONTROL POINTS BY : SURVEYING CONTROL, INC., 131 MADISON ST. N.E., ALBUQUERQUE, NM 87108
PHONE: (505-266-0935) FAX (505-266-9985)
DATE OF SURVEY: 01-13-2014
 - THE COUNTY MAY ELECT TO RETAIN THE EXISTING OVERHEAD STRUCTURE AT THE EAST END OF UNIT IV AS A COMMUNICATIONS TOWER. IN THAT EVENT, FUTURE CONSTRUCTION PLANS WILL ADDRESS THE EXISTENCE OF THIS FEATURE.

| CONTROL POINT DATA | | | | |
|--------------------|------------|------------|-----------------|-------------|
| POINT | NORTHING | EASTING | PANEL ELEVATION | DESCRIPTION |
| 501 | 1567982.35 | 1527461.08 | 5370.34 | PP-501 |
| 502 | 1570293.88 | 1531074.96 | 5354.66 | PP-502 |
| 503 | 1567798.82 | 1529894.61 | 5369.53 | PP-503 |
| 504 | 1565822.71 | 1528883.42 | 5316.47 | PP-504 |
| 505 | 1567834.53 | 1532385.04 | 5371.17 | PP-505 |

- NOTES:**
- ALL POINTS ARE FLUSH WITH THE GROUND.
 - THE COORDINATES AND ELEVATIONS FOR THE PHOTO CONTROL POINTS ON THE ABOVE REFERENCED PROJECT, THE COORDINATES ARE MODIFIED (SURFACE) NEW MEXICO STATE PLANE COORDINATES - CENTRAL ZONE, NAD 83 (NAD83/2011), AND HAVE BEEN ADJUSTED TO NOS MONUMENTS "EAGLE" TO OBTAIN TRUE STATE PLANE GRID COORDINATES. MULTIPLY THE COORDINATES BELOW BY THE PROJECT AVERAGE CORRECTION FACTOR OF 0.999961430. THE ELEVATIONS ARE NAVD 88, AND HAVE BEEN ADJUSTED TO THE NOS 1ST ORDER BENCHMARK "424". THE COORDINATES AND ELEVATIONS ARE EXPRESSED IN U. S. SURVEY FEET.

| GROUNDWATER MONITORING WELL LOCATIONS | | | | |
|---------------------------------------|------------|------------|-----------|-----------------|
| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| MW-1 | 1566727.43 | 1530025.09 | 5322.45 | MONITORING WELL |
| MW-2 | 1568159.63 | 1531290.50 | 5414.11 | MONITORING WELL |
| MW-3 | 1567315.31 | 1531064.87 | 5374.32 | MONITORING WELL |
| MW-5 | 1567869.24 | 1528110.28 | 5362.38 | MONITORING WELL |
| MW-6 | 1568758.30 | 1530695.17 | 5421.90 | MONITORING WELL |
| MW-7 | 1569394.69 | 1531377.96 | 5363.30 | MONITORING WELL |

- NOTES:**
- THE COORDINATES AND ELEVATIONS FOR THE GROUNDWATER MONITORING WELL LOCATIONS ON THE ABOVE TABLE, ARE MODIFIED (SURFACE) NEW MEXICO STATE PLANE COORDINATES - CENTRAL ZONE, NAD 83. SURVEY DATA OBTAINED BY TIM MARTINEZ SURVEYING ON 3-26-2015. THE COORDINATES AND ELEVATIONS ARE EXPRESSED IN U. S. SURVEY FEET.

UPDATED JANUARY 2016

FINAL GRADING PLAN

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers

213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

DATE: 01/29/2016 CAD: FINAL GRADING.dwg PROJECT #: 211.00.01
DRAWN BY: DMJ REVIEWED BY: CRK
APPROVED BY: JKG gel@gordonenvironmental.com

SHEET 10 OF 13

NOT FOR CONSTRUCTION
Drawing: P:\acad 2003\211.00.01\PERMIT PLAN SET\UNIT IV RAI\10-11 FINAL-DRAIN.dwg
Date/Time: Feb. 01, 2016-07:40:27 : LAYOUT: Sheet10
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| TABLE 1 UNIT ACREAGES | |
|--|--------------------------------------|
| UNIT I | 29.4 ACRES± |
| UNIT II | 19.5 ACRES± |
| UNIT III | 63.6 ACRES± |
| UNIT IV | 10.0 ACRES± (FORMER PNM EASEMENT) |
| TOTAL | 122.5 ACRES± |
| NOTE: 1. TOTAL AREA OF UNIT IV, INCLUDING OVERFILL AREAS IS 30.7 ACRES± | |

I. KEITH GORDON, P.E.
N.M. PROFESSIONAL ENGINEER NO. 10984

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LEGEND

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- UNIT IV LEACHATE COLLECTION PIPE & TRENCH
- UNIT IV LEACHATE COLLECTION SYSTEM RISER PIPE
- STORMWATER FLOW
- STORMWATER WATERSHED BOUNDARY
- STORMWATER BASIN
- EXISTING POWER POLE
- FIRE HYDRANT (3)
- EXISTING GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (DECOMMISSIONED)
- EXISTING LFG GAS PROBE (ACTIVE)
- EXISTING LFG GAS PROBE (INACTIVE)
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- SURVEY CONTROL POINT
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- CROSS SECTION LOCATIONS

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| MW-6 | 1568758.30 | 1530695.17 | 5421.90 | MONITORING WELL |
| MW-7 | 1569394.69 | 1531377.96 | 5363.30 | MONITORING WELL |

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| TABLE 2 RUNOFF SUMMARY | | | |
|---------------------------|-----------------------|----------------------|------------------|
| WATERSHED (ID) | DRAINAGE AREA (ACRES) | PEAK DISCHARGE (CFS) | VOLUME (ACRE-FT) |
| A | 71.91 | 49.5 | 3.74 |
| A1 | 7.05 | 8.48 | 0.37 |
| A1 | 9.07 | 10.19 | 0.47 |
| B | 49.29 | 52.73 | 2.79 |
| B1 | 4.35 | 5.61 | 0.23 |
| C | 49.91 | 26.07 | 2.60 |
| C, RUN-ON | 23 | 20 | 1.20 |
| TOTAL | 214.58 | 167 | 11.17 |

| TABLE 3 CHANNEL DESIGN SUMMARY | | | | | | |
|-----------------------------------|-----------|-----------|------------|------------|-----------------|------------------|
| CHANNEL (ID) | Q25 (CFS) | SLOPE (%) | WIDTH (FT) | DEPTH (FT) | VELOCITY (FT/S) | WATER DEPTH (FT) |
| A | 49.40 | 3.5 | 3 | 2 | 10.82 | 0.938 |
| A1 | 8.40 | 9.0 | 3 | 2 | 8.79 | 0.272 |
| A2 | 10.20 | 4.4 | 4 | 2 | 3.77 | 0.32 |
| A3 | 18.60 | 7.0 | 3 | 2 | 4.5 | 0.45 |
| B | 59.70 | 4.1 | 4 | 2 | 5.77 | 0.879 |
| B1 | 5.80 | 1.6 | 0 | 2 | 3.74 | 0.76 |
| C | 46.70 | 2.4 | 4 | 2 | 4.77 | 0.681 |

| TABLE 4 STORMWATER BASIN DESIGN SUMMARY | | | | | |
|--|-----------------------------|---------------|---|--|------------------|
| STORMWATER RETENTION BASIN | CONTRIBUTING DRAINAGE AREAS | RUNOFF VOLUME | BASIN CAPACITY WITHOUT USING 1 FT FREEBOARD | BASIN MAX. CAPACITY USING 1 FT FREEBOARD | FACTOR OF SAFETY |
| (ID) | (ID) | (ACRE-FT) | (ACRE-FT) | (ACRE-FT) | |
| A | A+A1+A2 | 4.58 | 5.12 | 6.83 | 1.12 |
| B | B+B1 | 2.82 | 3.00 | 3.75 | 1.06 |
| C | C+C, RUN-ON | 3.82 | 5.49 | 6.87 | 1.44 |

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N.M. PROFESSIONAL ENGINEER NO. 10984

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UPDATED JANUARY 2016

FINAL DRAINAGE PLAN

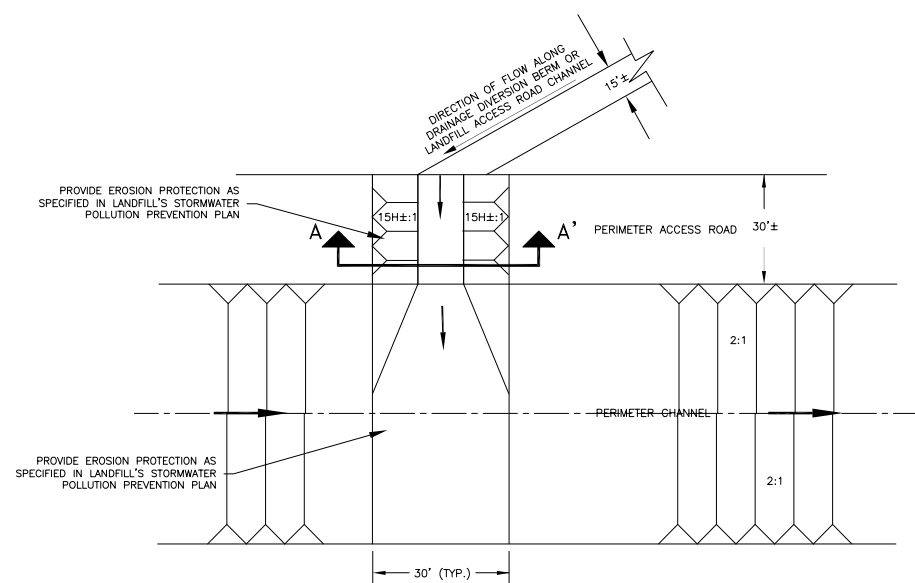
Gordon Environmental, Inc.
Consulting Engineers

213 S. Camino del Pueblo
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Phone: 505-867-6990
Fax: 505-867-6991

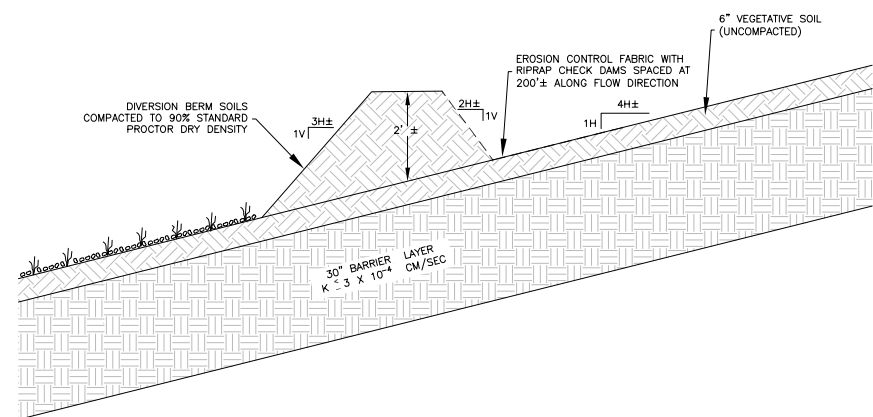
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APPROVED BY: IKG

CAD: FINAL GRADING.dwg
REVIEWED BY: CRK
gei@gordonenvironmental.com

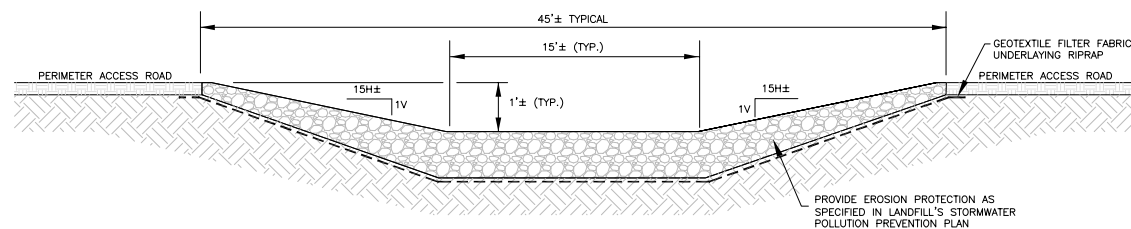
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SHEET 11 OF 13



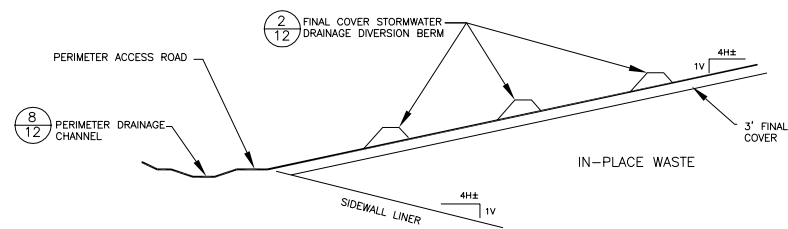
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12 SECTION VIEW NOT TO SCALE



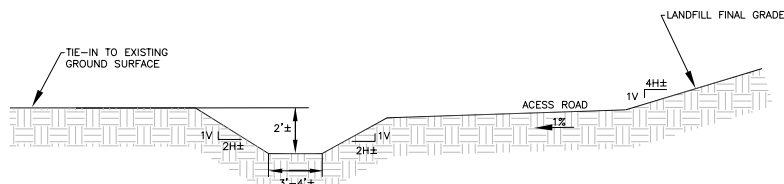
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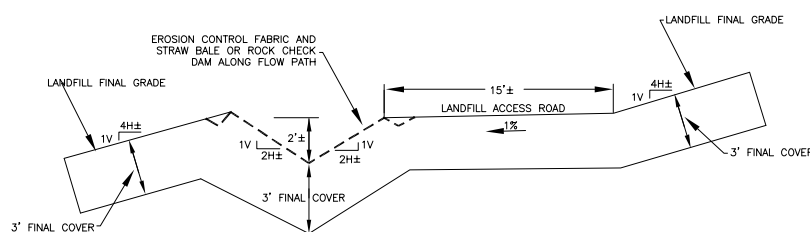
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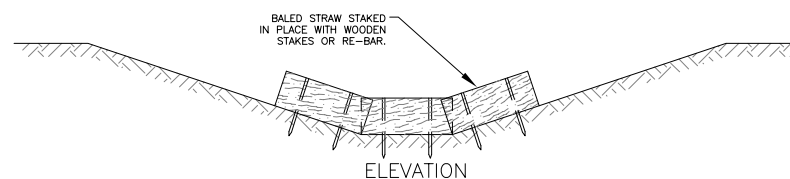
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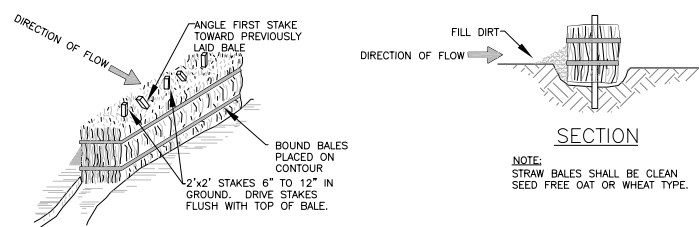
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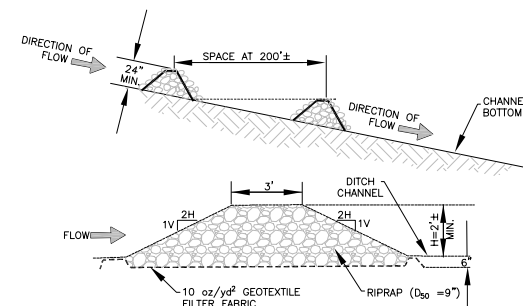
6
12 LANDFILL ACCESS ROAD AND DRAINAGE CHANNEL NOT TO SCALE



- NOTES:
1. TO BE USED FOR TEMPORARY EROSION CONTROL AS SPECIFIED IN SITE'S STORMWATER POLLUTION PREVENTION PLAN.
 2. WADDLES MAY BE USED IN LIEU OF STRAW BALES.

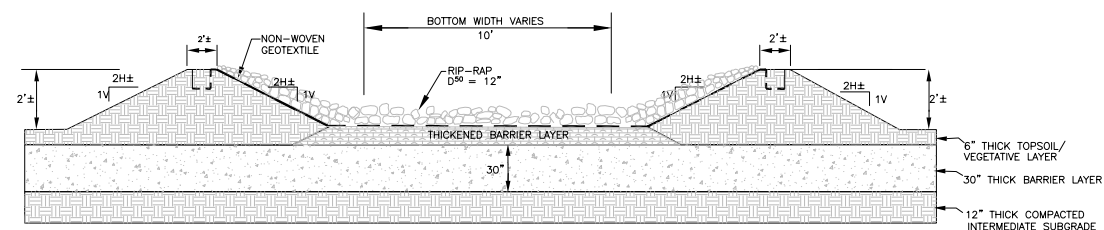


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12 ELEVATION/PLAN VIEW NOT TO SCALE

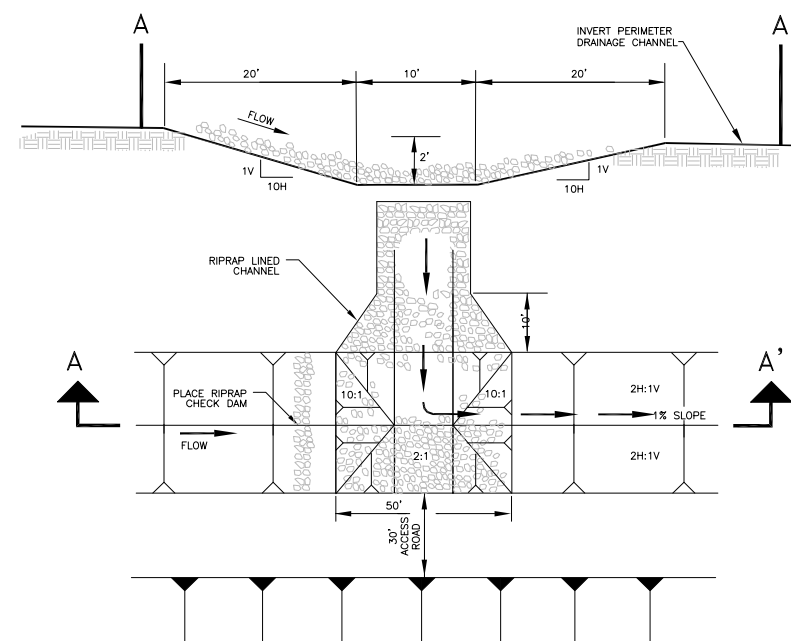


- NOTES:
1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION IN COA PLAN AND SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO THE PLACING OF ROCK. PLACE AND COMPACT RIPRAP IN SUCH A MANNER AS TO NOT DAMAGE THE NONWOVEN GEOTEXTILE.
 2. RIPRAP SHALL BE COMPOSED OF WELL-GRADED MIXTURE DOWN TO 1-INCH PARTICLE SIZE SUCH THAT 50 PERCENT OF THE MIXTURE BY WEIGHT, THE DIAMETER OF THE LARGEST STONE SIZE SHALL BE NO MORE THAN 1.5 TIMES OF D50.
 3. FOR ADDED STABILITY, THE BASE OF THE DAM SHALL BE KEYED 6 INCHES INTO THE CHANNEL BOTTOM.

8
12 PROFILE NOT TO SCALE



9
12 NOT TO SCALE



10
12 SECTION A-A' NOT TO SCALE

DRAINAGE DETAILS

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers

213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
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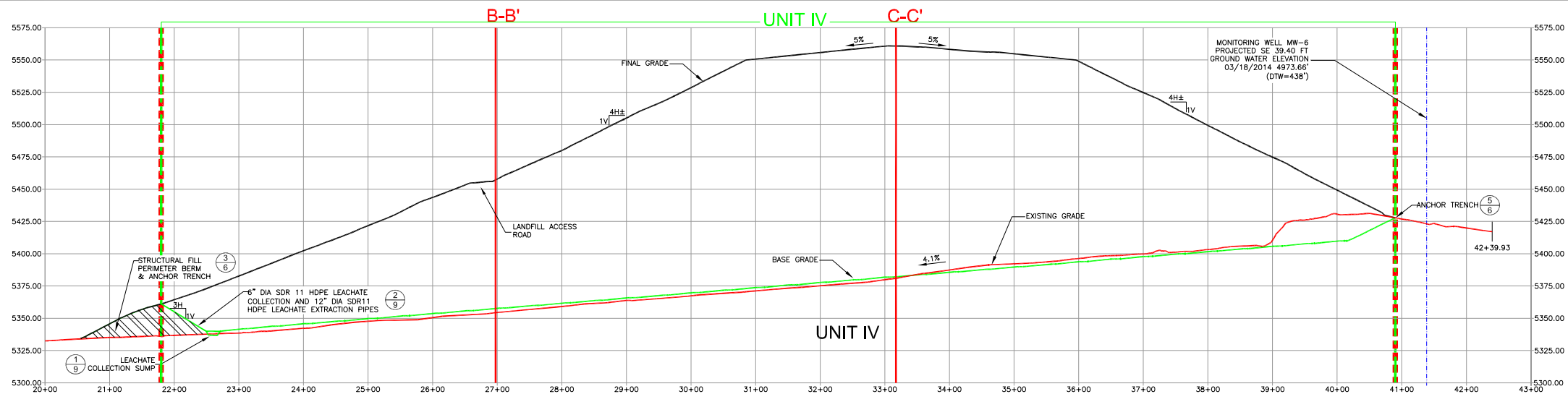
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| DRAWN BY: DMI | REVIEWED BY: CRK | |
| APPROVED BY: KKG | gel@gordonenv.com | SHEET 12 of 13 |

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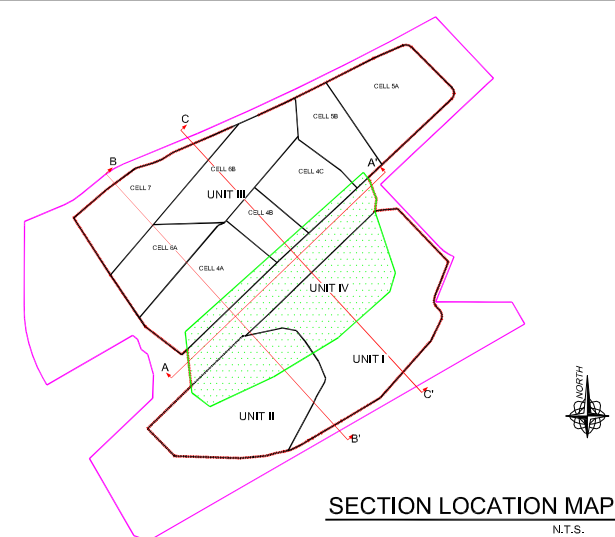
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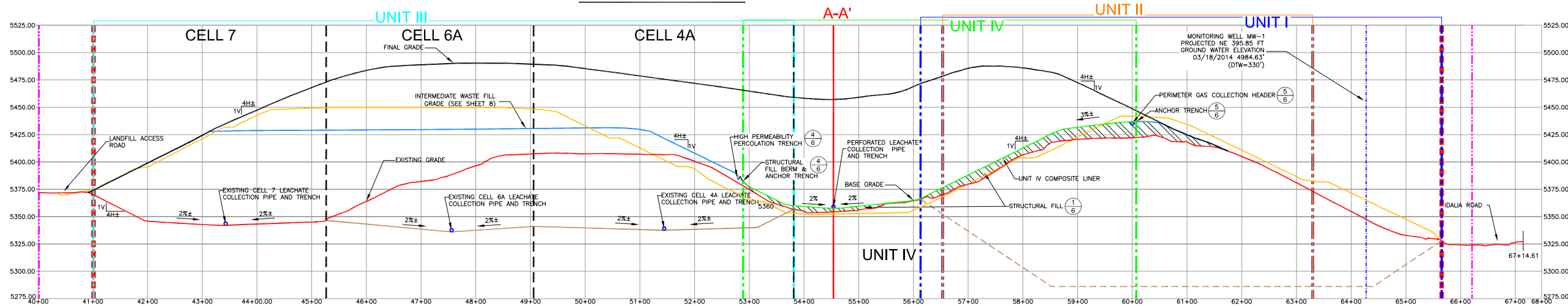
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CROSS SECTION A-A'

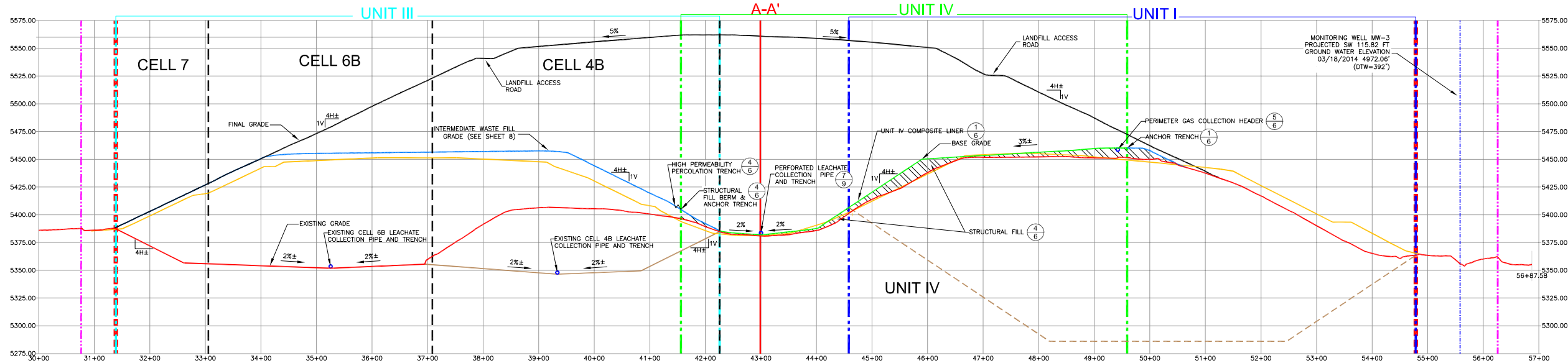


SECTION LOCATION MAP
N.T.S.



CROSS SECTION B-B'

- LEGEND**
- FINAL GRADE
 - INTERMEDIATE WASTE FILL GRADE
 - EXISTING GRADE
 - UNIT IV COMPOSITE LINER GRADE
 - 2005 PERMITTED GRADES
 - STRUCTURAL FILL SOIL COMPACTED TO 90% STANDARD PROCTOR DENSITY
 - AS-BUILT BASE GRADE BASED ON COMPLETED CQA REPORTS
 - INTERPOLATED UNIT I AND UNIT II BASE GRADES
 - UNIT I BOUNDARY
 - UNIT II BOUNDARY
 - UNIT III BOUNDARY
 - UNIT IV BOUNDARY
 - CELL BOUNDARY
 - LIMIT OF WASTE BOUNDARY
 - PROPERTY BOUNDARY



CROSS SECTION C-C'

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N.M. PROFESSIONAL ENGINEER NO. 10984

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UPDATED JANUARY 2016

CROSS SECTIONS

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO



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| | | |
|------------------|-----------------------------|----------------------|
| DATE: 01/18/2016 | CAD: 13 X-SEC.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: CRK | |
| APPROVED BY: IKG | get@gordonenvironmental.com | SHEET 13 of 13 |

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Drawing Path: acad 2003\211.00.01\PERMIT PLAN SET\UNIT IV RAI\113 X-SEC REVISED 1-13-2016.dwg
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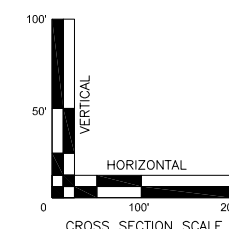


EXHIBIT E

MONTHLY WASTE RECEIPT RECORDS: 2018 – 2021

Exhibit B
Sandoval County Landfill
Annual Waste Receipt Records
2018-2021

| Waste Clasification | Tons | | | |
|----------------------------|--|--|--|--|
| | January 1, 2021 - December 31, 2021 | January 1, 2020 - December 31, 2020 | January 1, 2019 - December 31, 2019 | January 1, 2018 - December 31, 2018 |
| Clean Fill Dirt | 6,654.86 | 11,254.80 | 6,723.17 | 9,008.80 |
| Concrete | 207.02 | 429.03 | 289.71 | 801.94 |
| Commercial Waste | 56,842.34 | 33,319.09 | 11,525.84 | 4,048.82 |
| Compacted Waste | 23,807.27 | 49,448.82 | 65,132.95 | 65,659.58 |
| C & D | 86,112.79 | 80,299.63 | 82,255.52 | 89,134.03 |
| Greenwaste | 8,067.90 | 7,640.99 | 7,380.36 | 7,525.83 |
| Residential MSW | 8,646.57 | 13,887.00 | 13,666.20 | 12,753.96 |
| Tires | 53.95 | 93.75 | 32.40 | 36.07 |
| Annual Total (Tons) | 190,392.70 | 196,373.11 | 187,006.15 | 188,969.03 |

EXHIBIT F

**CLOSURE/POST-CLOSURE PLAN: 2015 APPLICATION FOR
PERMIT**

**APPLICATION FOR PERMIT RENEWAL AND MODIFICATION
SANDOVAL COUNTY LANDFILL**

**VOLUME II: LANDFILL MANAGEMENT PLANS
SECTION 5: CLOSURE/POST-CLOSURE PLAN**

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**APPLICATION FOR PERMIT RENEWAL AND MODIFICATION
SANDOVAL COUNTY LANDFILL**

**VOLUME II: LANDFILL MANAGEMENT PLANS
SECTION 5: CLOSURE/POST-CLOSURE PLAN**

| | | |
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| II.5.D | FINAL GRADING PLAN |
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**APPLICATION FOR PERMIT RENEWAL AND MODIFICATION
SANDOVAL COUNTY LANDFILL**

**VOLUME II: LANDFILL MANAGEMENT PLANS
SECTION 5: CLOSURE/POST-CLOSURE PLAN**

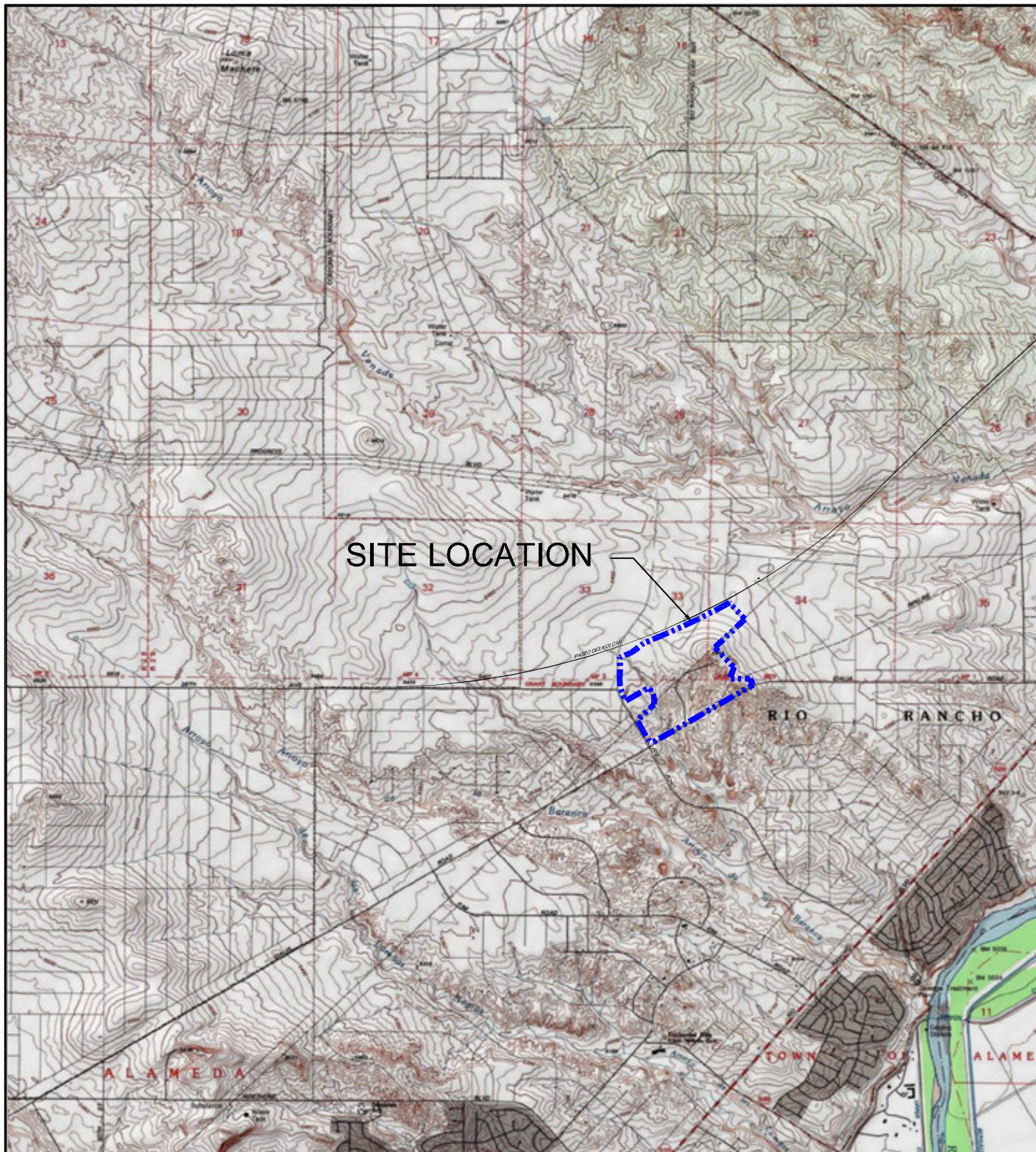
1.0 INTRODUCTION

The Sandoval County Landfill (SCLF) is an existing solid waste facility operating in compliance with its current Permits, SWM-050304 and SWM-050304 (SP), and the New Mexico Environment Department (NMED) Solid Waste Rules (20.9.2-2.9.10 NMAC). SCLF is located at 2708 Iris Road NE in Rio Rancho, New Mexico (NM), and occupies 178.3 acres \pm (**Figure II.5.1**). SCLF is publicly owned and operated by the County of Sandoval (the “County”), and is currently permitted to accept municipal solid waste (MSW), construction and demolition debris (C&D), and two special wastes: petroleum contaminated soils (PCS) and sludge, although SCLF has not received either of these special wastes to-date.

1.1 Purpose

This document presents the updated Closure/Post-closure (C/PC) Plan (the “Plan”) for the SCLF. This Plan has been developed in accordance with the 2007 New Mexico Solid Waste Rules (NMSWR; 20.9.2 – 20.9.10 NMAC) and the 10/28/2009 New Mexico Environment Department (NMED) Solid Waste Bureau (SWB) guidelines for C/PC plans. The Closure Plan/Post-Closure Plan included in the 2005 Application for Permit (Gordon Environmental, Inc.; GEI) was approved by NMED on July 17, 2005.

This Plan has been prepared in accordance with the requirements of 20.9.6 NMAC; and it is a “*written closure and post-closure care plan*” as defined by 20.9.6.8.B NMAC. The Closure Plan (Section 2.0) describes the steps that will be necessary to close SCLF; the Post-closure Plan (Section 3.0) outlines those activities that will be necessary to care for and monitor the Landfill during the 30-year post-closure care period; and Financial Assurance cost estimates for each are documented in Section 4.0. This Plan addresses recent NMED policies that require it to be a stand-alone document; thus many components are necessarily redundant with other elements of this Application (i.e., Hydrogeology; Groundwater; Siting; Landfill Gas and Leachate Management).



LEGEND

--- SITE BOUNDARY

NOTES:

1. GEOGRAPHIC COORDINATES FOR THE CENTER OF THE SITE:
35.3092°N, 106.6198°W.
2. MAP REFERENCES:
MAP BASE FROM USA TOPO MAPS, 1:24000
USA TOPOGRAPHIC SERVICES, TOPOI MAP
3. SITE BOUNDARY FROM THE 2014 VACATION PLAT 093013
RRE BOOK 25 PAGE 65 SANDOVAL COUNTY LANDFILL

Drawing: P:\acad 2003\211.00.01\PERMIT FIGURES\SITE LOC MAP.dwg
Date/Time: Apr. 07, 2015-13:43:28 ; LAYOUT: A (P)
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SITE LOCATION MAP

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO



Gordon Environmental, Inc.
Consulting Engineers

213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

| | | |
|------------------|-----------------------------|----------------------|
| DATE: 03/24/2015 | CAD: SITE LOC MAP.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: DRT | FIGURE II.5.1 |
| APPROVED BY: IKG | get@gordonenvironmental.com | |

1.2 Site Description

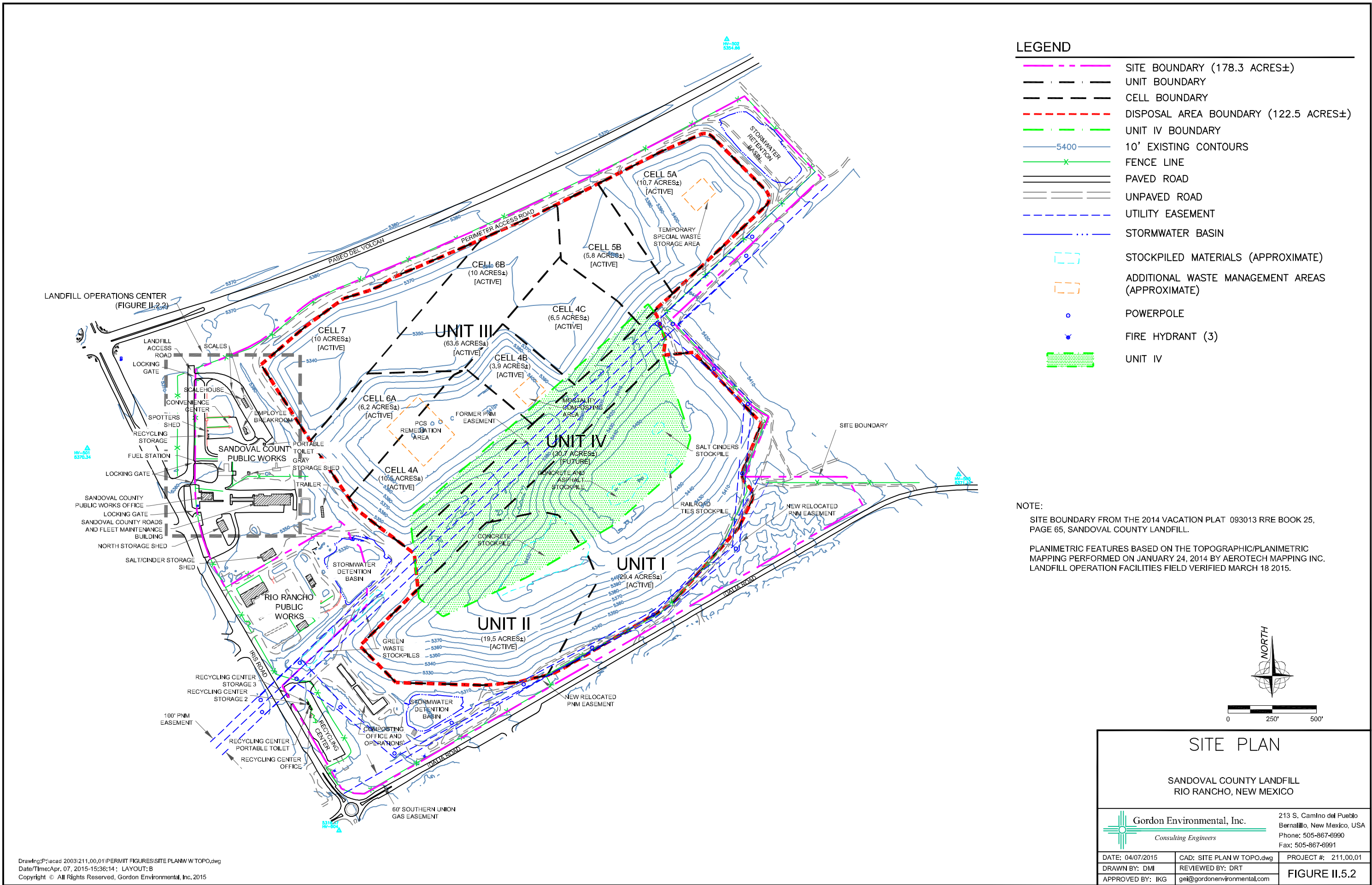
The approximate geographic coordinates for the center of the SCLF are Latitude 35.307°N and Longitude 106.622°W; located within portions of the Sections 33 and 34, Township 13 North, Ranch 3 East of the New Mexico Prime Meridian, Sandoval County, NM (**Figure II.5.1**). SCLF has been in operation since the early 1970s. In 1983, SCLF was registered as a landfill with NMED. The original 114-acre ± site was first permitted (SWM-050304) by Roy F. Weston, Inc. (Weston) to NMED standards (i.e., 20 NMAC 9.1) in 1998. The SCLF Permit was modified and renewed by Gordon Environmental, Inc. (GEI) as approved by NMED in 2005 [SWM-050304 and SWM-050304 (SP)]. The 2005 Modification included a 63-acre ± lateral expansion of the facility boundary to the north, which resulted in a 178.3-acre ± facility encompassing a 112.5-acre ± disposal area. In addition to the expansion, the 2005 Permit included in-vessel composting services to divert organic waste from incoming waste streams for beneficial uses.

The County is currently seeking to renew and modify the SCLF Permit compliant with the current Solid Waste Rules (i.e., 20.9.2-20.9.10 NMAC) to include an additional lateral and vertical expansion of the solid waste disposal boundary. The expansion will include a new, internal Unit IV disposal area which will overlap Units I, II, and III; and includes a portion of the former Public Service Company of New Mexico (PNM) utilities easement. Once approved, the modification will result in a 122.5-acre ± disposal area (i.e., a 10-acre ± lateral expansion); however, there will be no changes to the existing 178.3-acre ± solid waste facility boundary. The currently proposed SCLF “solid waste disposal area” [20.9.2.7.S(10) NMAC] comprises approximately 122.5 ± acres of the solid waste facility footprint; as identified in **Table II.5.1**, and shown on **Figure II.5.2**.

TABLE II.5.1
Solid Waste Disposal Area Summary
Sandoval County Landfill

| Disposal Area | Acreage |
|----------------------------|----------------|
| Unit I | 29.4± |
| Unit II | 19.5± |
| Unit III | 63.6± |
| Unit IV | 10.0± |
| Total Disposal Area | 122.5± |

Note: New Unit IV overlaps Units I-III by 20.3 acres



The currently proposed MSW disposal footprint includes Units I-IV:

- Unit I no longer receives solid waste and has been capped with intermediate/final cover and is being prepared for closure.
- Unit II has not completely reached final grade to-date, but has had intermediate cover applied.
- Unit III is currently in operation (i.e., Cells 4-7).
- For this Application, the proposed design layout for Unit IV allows for additional waste filling of approximately 180 feet (ft) above existing grade in PNM utilities easement.
- Units II, III, and IV are designed to include a composite liner and leachate collection and extraction system.

Other public service infrastructure within the SCLF site boundary includes:

- The Sandoval County Public Works Complex (i.e., Administration, Fleet Maintenance, etc.)
- Waste Receiving Plaza (i.e., Scalehouse, Scales, Convenience Center, Employee Breakroom)
- Convenience Center (public MSW transfer and recyclables)
- Recycling Center (jointly operated by the County and the City of Rio Rancho)
- In-Vessel Composting Operations (including digesters, feedstock piles, and curing piles)

1.3 Previous Environmental Studies

Roy F. Weston, Inc. (Weston) prepared the NMED-approved 1998 SCLF Application for Permit, and Gordon Environmental, Inc. (GEI) prepared the 2005 Application approved by NMED on 06/17/2005. The 2005 Application, which is part of SCLF's Administrative Record on file with NMED, provides extensive environmental studies including site geology, hydrology, siting criteria, etc. These studies were conducted in accordance with the regulatory requirements in place at that time; and components of the studies have been updated for this Application, as applicable.

1.4 Waste Volumes

Based on geometric analysis of the January 2014 aerial survey of the site encompassing Unit I (29.4 acres \pm), II (19.5 acres \pm), and the active portion of Unit III at the time of survey (i.e., 31.3 acres \pm), and accounting for 2014 waste receipts, approximately 7.14 million cubic yards (yd³) of waste was landfilled at SCLF from the early 1970s through December 2014. **Table II.5.2** provides estimates of the remaining waste capacity and projected operating timeframe for Units III and IV at 350 tons per day (tpd) and 450 tpd. The maximum waste volume for SCLF at completion is projected to be approximately 15.5 million yd³ within the 122.5-acre \pm waste footprint.

TABLE II.5.2
Capacity Analysis Summary
Sandoval County Landfill

| Unit | Acres | Estimated In-Place Waste Through 2014 (yd ³) | Estimated Remaining Waste Capacity (yd ³) | Estimated Remaining Waste Capacity (tons) ⁽¹⁾ | Projected Remaining Longevity ⁽²⁾ (350 tpd) | Projected Remaining Longevity ⁽²⁾ (450 tpd) |
|--------------------|---------------|--|---|--|--|--|
| I | 29.4± | 2,927,568 | 0 | 0 | 0 | 0 |
| II | 19.5± | 1,605,620 | 0 | 0 | 0 | 0 |
| III ⁽³⁾ | 63.6± | 2,605,331 | 4,098,612 | 2,254,237 | 21.3 yrs ± | 16.6 yrs ± |
| IV | 10.0± | 0 | 4,277,905 | 2,352,848 | 22.3 yrs ± | 17.3 yrs ± |
| Total | 122.5± | 7,138,519 | 8,376,517 | 4,607,085 | 44 yrs ± | 34 yrs ± |

Notes:

⁽¹⁾ Waste density assumed at 0.55 tons/yd³

⁽²⁾ Longevity projections based on 302 operating days/yr

⁽³⁾ In-place Waste for Unit III includes 2014 waste receipts (215,825 yd³ ±)

1.5 Site Topography and Climate

Topography

The existing SCLF is situated between approximately 5,300 and 5,441 ft above mean sea level (amsl), less than one mile to the north of Arroyo de la Baranca, and approximately two miles west of the Rio Grande (**Figure II.5.1**). The SCLF is set back from the terraces that overlook the Rio Grande and is located among the dune fields of the west mesa. The west mesa lies in the Mexican Highland Section (Rio Grande subsection) of the Basin and Range Province. The topography associated with this area consists of block-faulted mountains that commonly have Precambrian cores overlain by Paleozoic sedimentary sequences and basin deposits that may exceed 5,000 ft in thickness.

The geologic characteristics of the region are quaternary pediment, terrace, and other deposits of sand, gravel and caliche. These soils are commonly found on the gently to strongly sloping and undulating plains in the northern part of the Rio Grande depression, principally in the counties of Bernalillo, Valencia, Sandoval and Socorro. The topographic high point of the completed Unit IV will be approximately 5,562 ft amsl. That constructed topographic high exceeds, by 121 ft, the naturally occurring topographic high point of the hilltop feature associated with the project which is approximately 5,441 ft amsl.

Climate

The SCLF is situated in the northern reaches of the Chihuahuan grasslands which is characterized by a temperate continental semi-arid climate. The climate is typical of high desert plateau regions with wide temperature extremes, sunny days and low precipitation. The maximum average temperature for Corrales, NM, the closest area with consistent and available climate data, is 91.7 °F and occurs in July; and the minimum average temperature of 19.6 °F occurs in December. The annual average precipitation is approximately 10.07 inches (in), the majority of which occurs in the form of convection thunderstorms during the summer months (i.e., occurring in the form of “monsoon” storms). Net evapotranspiration in the vicinity of the site is approximately 88 in/yr.

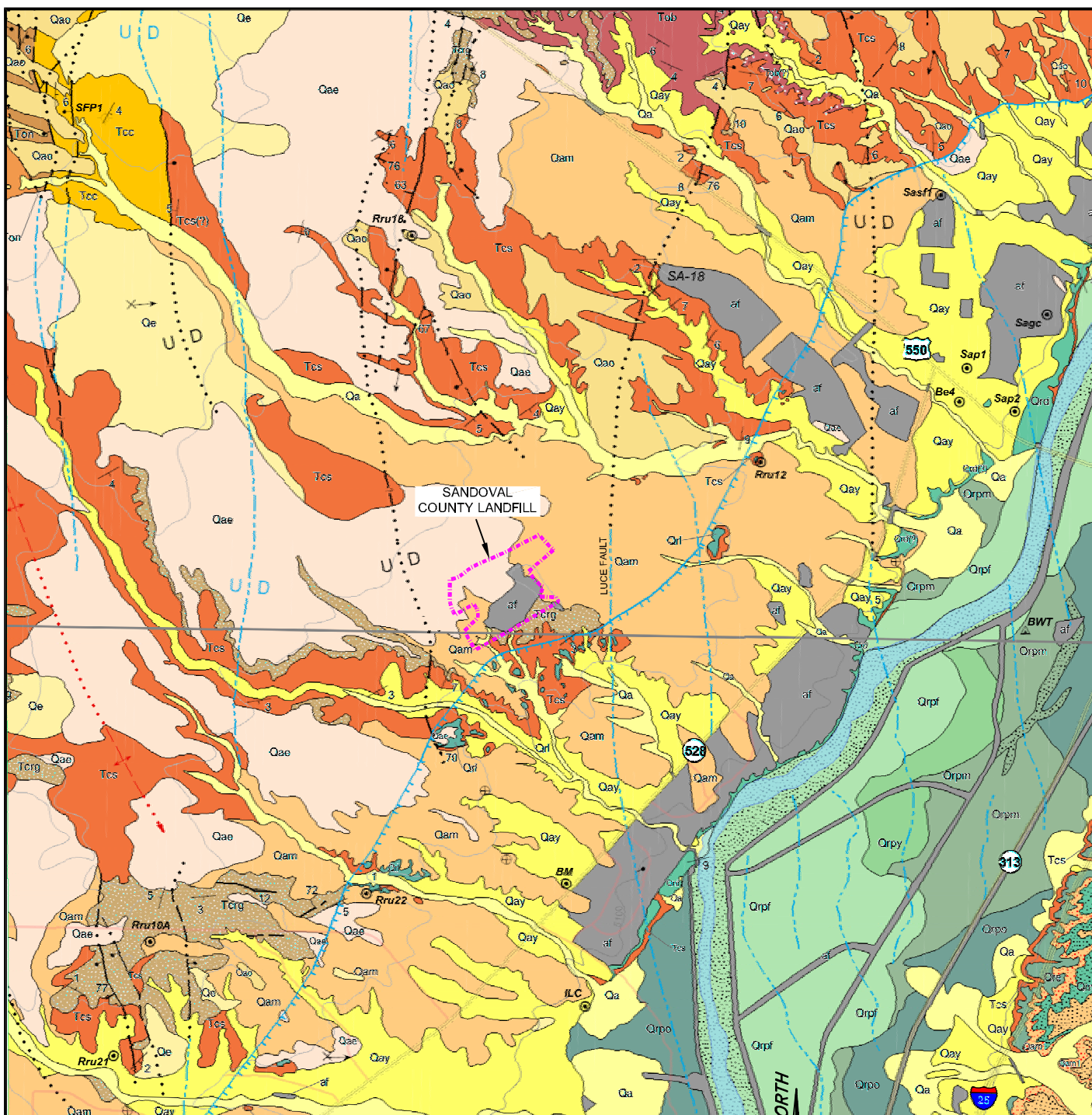
1.6 Site Geology and Hydrogeology

Geology

SCLF is located in the Albuquerque-Belen Basin of the northern Mexican Highland Section of the Basin and Range Physiographic Province. The Basin is situated in the Rio Grande Rift Zone, just outside the easternmost extent of the Colorado Plateau Province. SCLF is located within the Rio Grande watershed, approximately 95 miles east of the continental divide.

Figure II.5.3 is a surface geologic map of the SCLF and surrounding area. The facility is underlain by a sequence of sediments consisting predominately of sandstones and gravels, with interbeds of siltstones and mudstones. These sediments belong to the Arroyo Ojito Formation of the Upper Santa Fe Group and are of Pleistocene to Miocene age. These are western basin-margin deposits, derived from the ancestral Rio Grande and the Colorado Plateau. Unconformably overlying the Arroyo Ojito Formation are Quaternary deposits of Pleistocene age. **Figure II.5.4** shows the regional stratigraphy in the vicinity of SCLF. Information provided in this stratigraphic column is the result of mapping by the New Mexico Bureau of Mines and Mineral Resources, as well as on-site drilling and mapping activities conducted by Gordon Environmental, Inc. (GEI) and others.

Upper Santa Fe Group – The major stratigraphic unit underlying SCLF is the Upper Santa Fe Group. The Santa Fe Group ranges from approximately 3,000 ft thick along the Basin margins to over 14,000 ft thick in deeper areas of the Basin. In the SCLF area, the Santa Fe Group is over 4,000 ft thick and is comprised of the Arroyo Ojito Formation, which consists of two members (the *Loma Barbon* and the *Ceja*).



LEGEND

- - - - - Sandoval County Landfill Boundary
- af Disturbed land and artificial fill (af, modern-historic)
- Qa Active stream-valley alluvium (Qa, historic-Holocene)
- Qe Eolian sand, undivided (Qe, Holocene-upper Pleistocene)
- Qae Eolian sand and alluvium, undivided (Qae, Holocene-upper Pleistocene)
- Qay Younger stream-valley alluvium (Qay, upper Pleistocene-Holocene)
- Qam Intermediate stream-valley alluvium (Qam, upper-middle Pleistocene)
- Qrl Lomas Negras Formation (Qrl, middle Pleistocene)
- Qao Older stream-valley alluvium (Qao, middle Pleistocene)
- Tcrq Ceja Formation, Upper sand and gravel member (Tcrq, Pliocene-lower Pleistocene(?))
- Tcs Ceja Formation, Santa Ana Mesa Member (Tcs, Pliocene)
- Tob Arroyo Ojito Formation (1999), Loma Barbon Member (Tob, upper Miocene)

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0 1/2 1 MILE

MAP FROM: NMBGR Open-File Report 496, PLATE 1, VER2.0

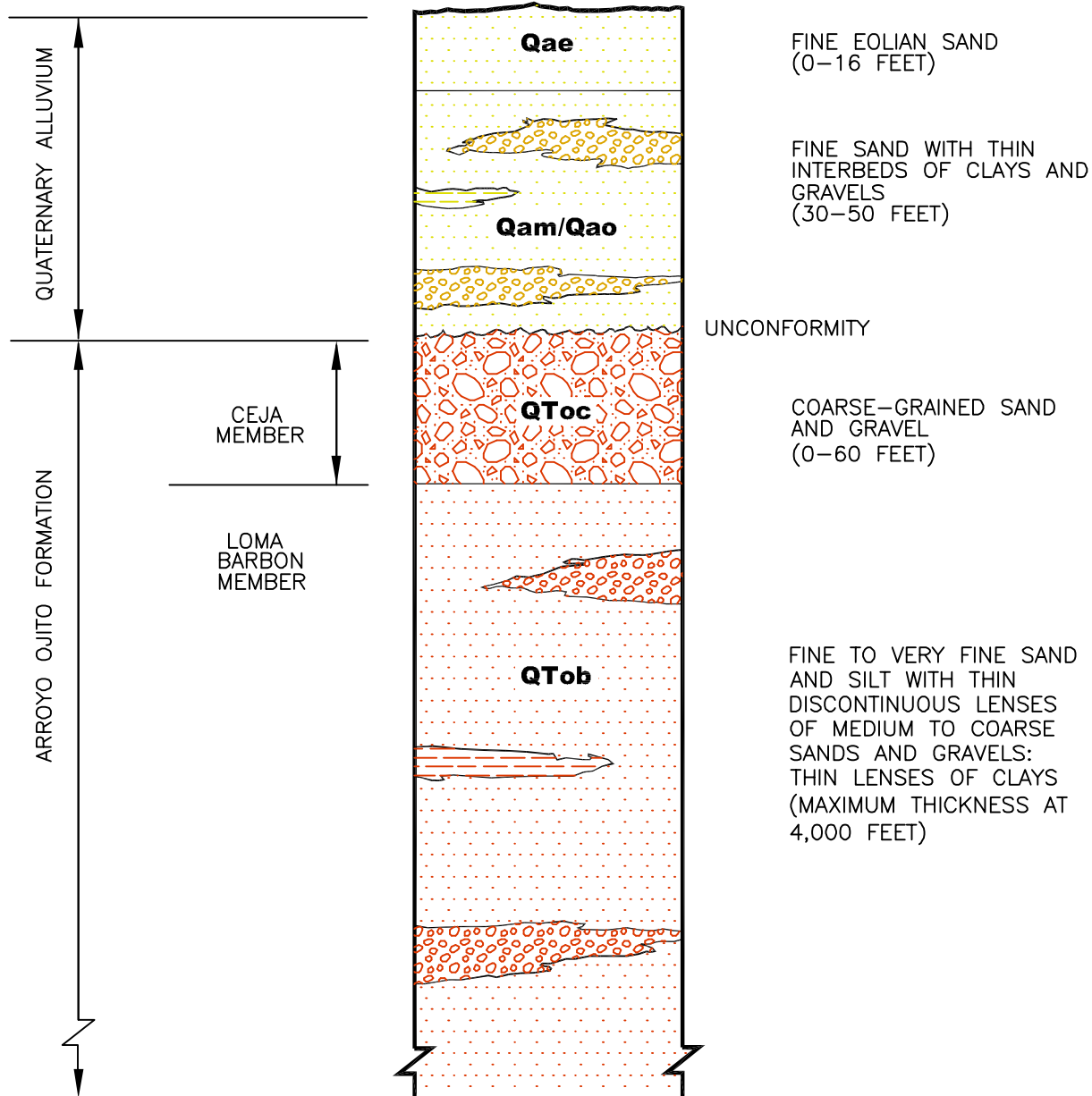
GEOLOGY MAP

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

Gordon Environmental, Inc.
 Consulting Engineers

213 S. Camino del Pueblo
 Bernalillo, New Mexico, USA
 Phone: 505-867-6990
 Fax: 505-867-6991

| | | |
|------------------|-----------------------------|----------------------|
| DATE: 04/07/2015 | CAD: GEOMAP CONNEL.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: DRT | |
| APPROVED BY: IKG | gei@gordonenvironmental.com | FIGURE II.5.3 |



SITE STRATIGRAPHIC COLUMN

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO



Gordon Environmental, Inc.
Consulting Engineers

213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

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| | | |
|------------------|-----------------------------|----------------------|
| DATE: 04/07/2015 | CAD: SITE STRAT.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: DRT | FIGURE II.5.4 |
| APPROVED BY: IKG | get@gordonenvironmental.com | |

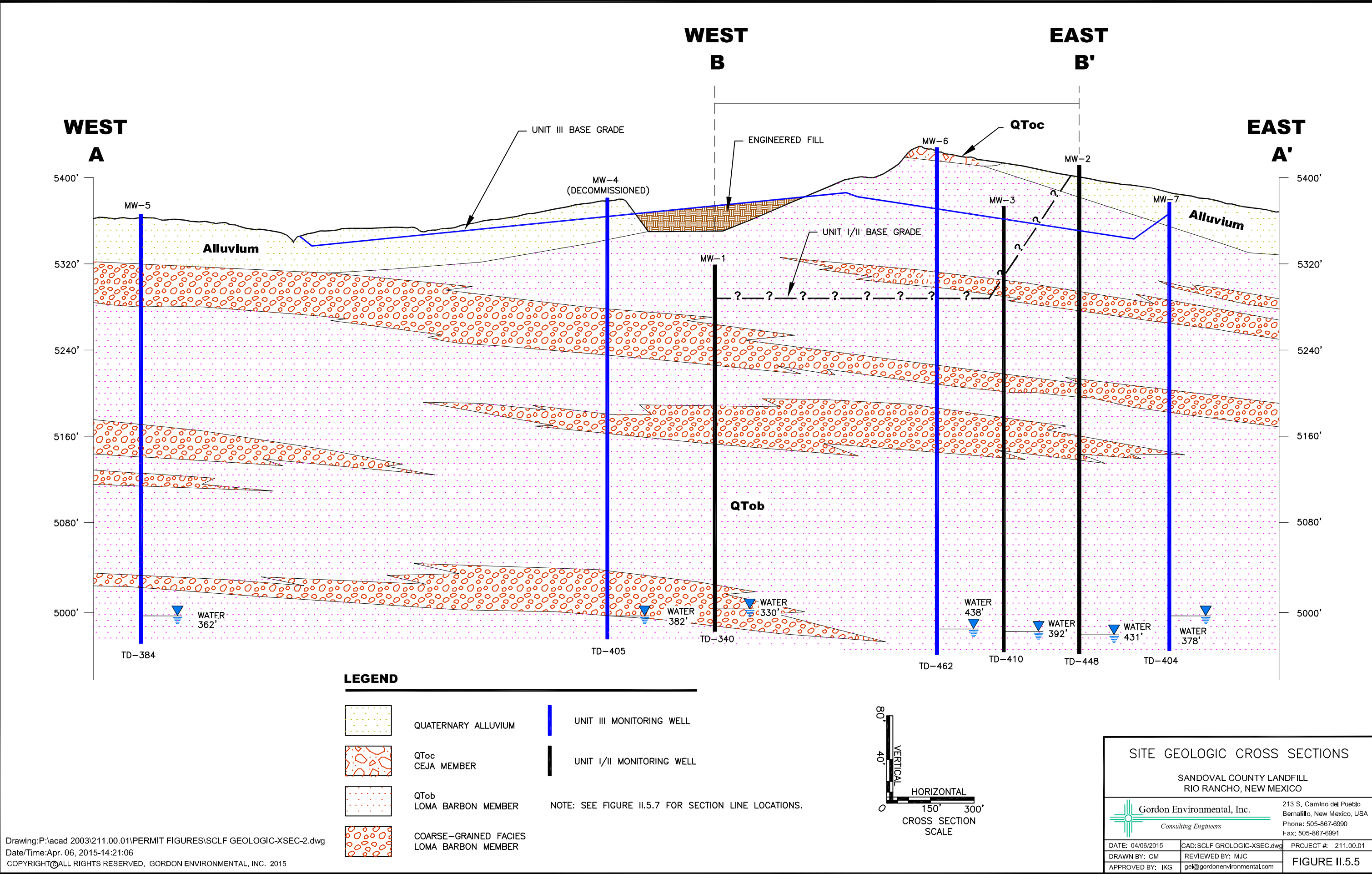
The *Loma Barbon Member* is the major unit within this formation and underlies the entire facility. The Loma Barbon consists of well-consolidated, fine-grained, yellow-brown to red-brown silty sandstones with interbedded mudstones and scattered lenses of coarse-grained sandstones and cobbly sandstones. Cobbles are derived predominately from red granite, basalt, and tuffs. Field mapping indicates a strike of N 10° E and a dip of 4° to the southeast for this unit. This member was deposited in a fluvial environment. Thus, individual lenses of mudstones and coarse-grained facies are laterally discontinuous.

The *Ceja Member* of the Arroyo Ojito Formation is a 40 to 60-foot-thick sequence of moderately consolidated, light red to red-brown medium to coarse-grained sandstones and gravels, with minor interbeds of siltstones and mudstones. Gravel cobbles are comprised of red granite, basalt, chert, and minor amounts of quartzite. This unit is present on the topographically highest portion of the property in the area of monitoring wells MW-3 and MW-6 (**Figure II.5.5**), and may be seen capping the hills immediately south of the facility.

Quaternary Alluvium – Unconformably overlying the Upper Santa Fe Group is a thin sequence of Quaternary deposits. Geologic literature indicates there are two types of Quaternary alluvium present at the site, and these were confirmed by the geotechnical drilling program implemented in 2003 in support of lateral expansion/re-permitting of the site in 2005. Immediately overlying the sediments of the Arroyo Ojito Formation, drilling encountered fine, yellow-brown weakly consolidated sands with thin interbeds of clays and scattered coarse-grained sands and gravel lenses. These sediments are 20 to 30 ft thick, alluvial in nature, and have been derived from the weathering of the Arroyo Ojito Formation. There is considerable caliche development within these sediments, which are interpreted to be an older Quaternary unit (Qam). At the surface, a thin veneer of unconsolidated, light tan aeolian sand (Qae) mantles the site. Drilling indicated these aeolian sands range from 0 to 5 ft thick.

Hydrogeology

Groundwater flow in the Albuquerque-Belen Basin occurs through porous alluvial sediments comprising the Upper Santa Fe Unit. The major water-bearing units in the basin occur within the upper 2,000 ft of basin fill, primarily within the Arroyo Ojito Formation (Upper Santa Fe Unit).

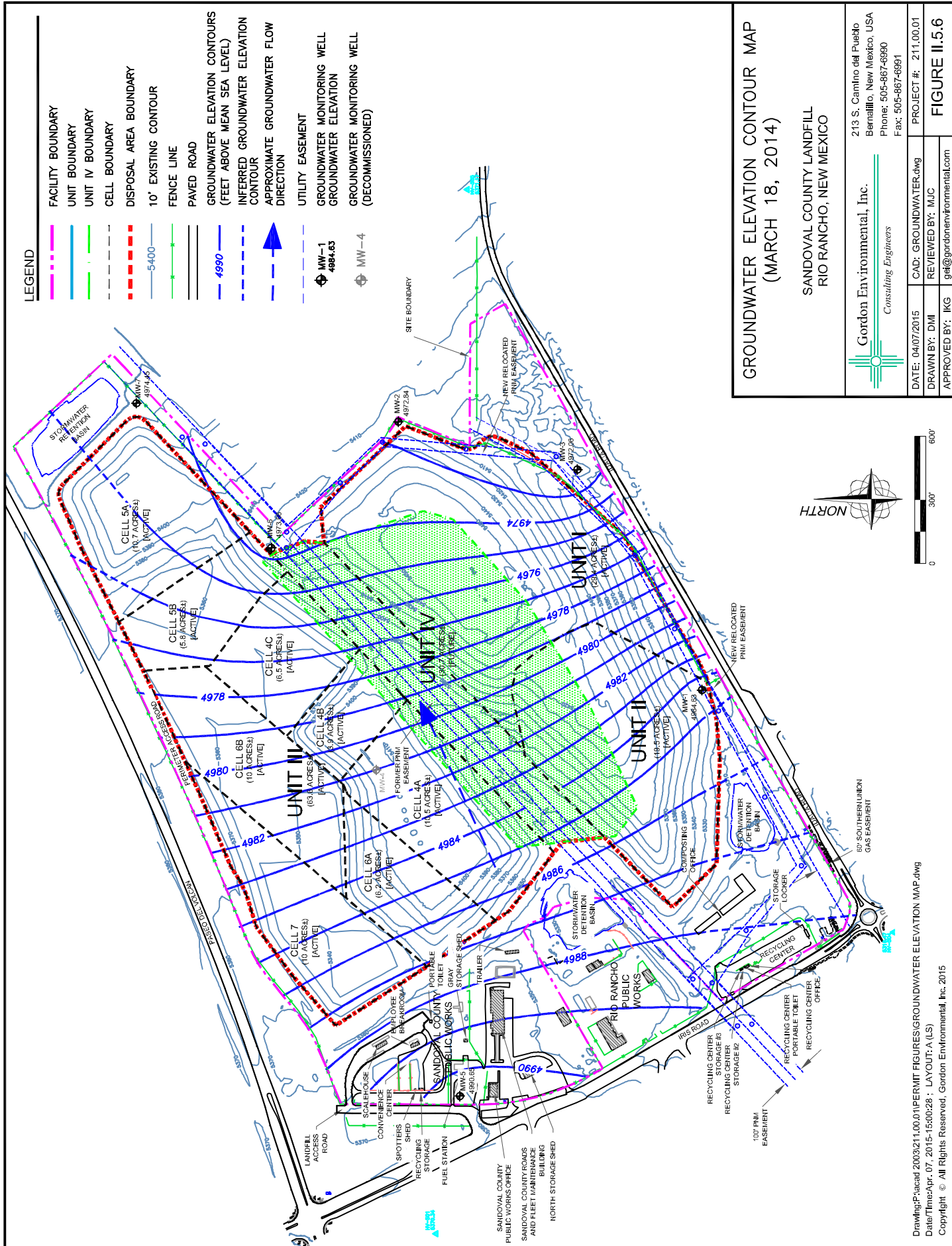


The aquifer matrix is generally comprised of unconsolidated to partially indurated sediments that were transported into the basin from the adjacent highlands, and from upstream areas along the Rio Grande Rift. These basin and fill deposits are of late Tertiary and Quaternary age (generally younger than 15 million years), are locally derived, and have been reworked extensively by wind. The deposits also contain significant local volcanic and igneous sediments.

The vadose zone is generally 300-600 ft thick near the western portion of the Northern Albuquerque Basin. Recharge to the aquifer occurs as a result of infiltration through the vadose zone. Precipitation enters the hydrologic system through the vadose zone as infiltrating rainfall and channel losses from flow in arroyos, and exits the system through evapotranspiration and recharge into the underlying aquifer.

SCLF is situated approximately two miles northwest of the Rio Grande in southern Sandoval County at a point where the river transitions from a gaining reach to a losing reach. As a result, the groundwater flow pattern in southern Sandoval County west of the Rio Grande fluctuates between southeasterly and southwesterly directions (Bartolino and Cole, 2002). The site-specific groundwater flow pattern varies in a more complex fashion both temporally and spatially as a result of the transition and SCLF's location relative to this transition zone. The current groundwater flow direction beneath SCLF trends to the east-northeast consistent with historic data (**Figure II.5.6**).

Lithologic logs developed by SHB AGRA, Inc. during the installation of groundwater monitoring wells MW-1, 2, 3, and 4 (1993-1996) indicate that fine-grained sand comprises a majority of the material at depths less than 50 ft bgs. Lithologic logs developed by GEI during the installation of geotechnical borings and groundwater monitoring wells MW-5, 6, and 7 (2003-2004) confirm the original findings by SHB AGRA, Inc. This sand consists of mainly angular quartz fragments as well as a few feldspar and mafic mineral grains that indicate only slight *in-situ* chemical weathering, if any. At depths greater than 50 ft bgs, changes in the lithology are only evidenced by slight variations in silt and clay content and the presence of discontinuous lenses of coarse-grained facies, while the fine-grained sand is consistently the majority of the overall matrix. The distribution of silt and clay in the subsurface is above groundwater and, as a result, the uppermost water-bearing unit is an unconfined aquifer.

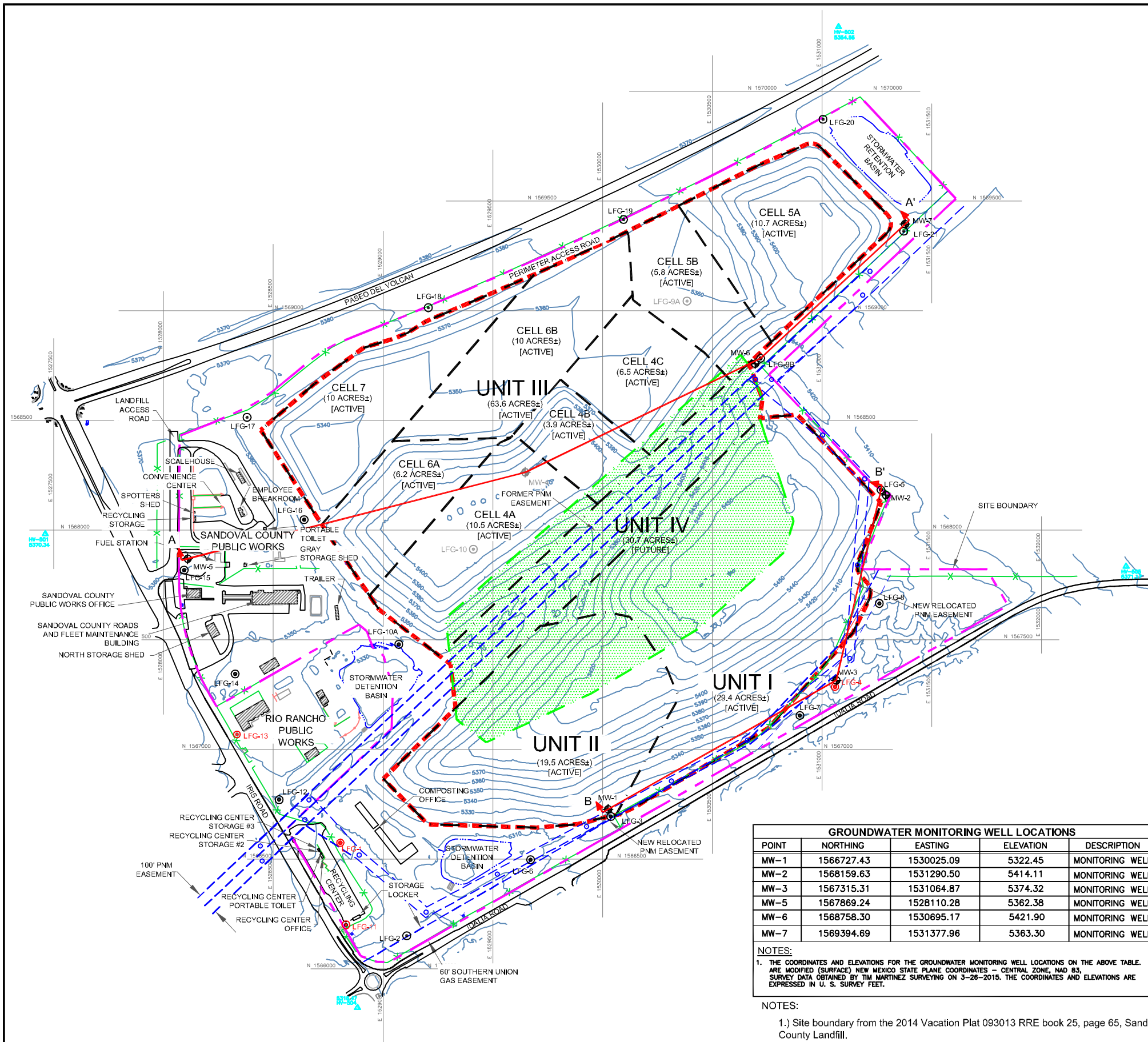


1.7 Groundwater Quality

The original monitoring well network at SCLF consisted of four monitoring wells (MW-1 through MW-4) installed between 1993 and 1996. Upgradient monitoring well MW-4 was decommissioned in June 2003 in advance of Cell 4A construction, and replaced by upgradient monitoring well MW-5 in August 2003. Two additional monitoring wells (MW-6 and MW-7) were installed in January and March 2004, respectively, in support of the 2005 Application for Permit for expansion of the site. On 03/11/10, the Solid Waste Bureau (SWB) approved the exclusion of well MW-1 from sample collection due to the continuing water level decline in the well; which has been declining steadily at a rate of approximately 1 ft/yr since 1999. However, the water level (as detectable) will continue to be recorded during each subsequent groundwater sampling event to assist in characterizing groundwater flow direction and velocity.

The existing groundwater monitoring network for the site consists of upgradient monitoring well MW-5 and downgradient monitoring wells MW-1, 2, 3, 6, and 7 (**Figure II.5.7**). Currently, groundwater samples are collected on an annual basis from monitoring wells MW-2, 3, 5, 6, and 7 only. During each annual event, water levels in wells MW-1, 2, 3, 5, 6, and 7 are recorded to aid in characterizing groundwater flow direction and velocity. As shown on **Figure II.5.6**, the downgradient wells are positioned appropriately to detect a potential release from the landfill.

Monitoring wells MW-2, 3, 5, 6, and 7 are installed at depths appropriate to yield groundwater samples from the uppermost water-bearing zone at each location. Completions of the site's monitoring wells (including decommissioned well MW-4) relative to the unconfined, uppermost water-bearing unit are depicted in the geologic cross sections provided on **Figure II.5.5**; and the positions of hydrogeologic cross sections are shown on **Figure II.5.7**. **Figure II.5.5** also demonstrates that the uppermost water-bearing zone beneath the site is significantly greater than 100' below basegrade design elevations for Units II and III (i.e., 344'), as well as the projected floor elevations for Unit I (i.e., 280').



LEGEND

- SITE BOUNDARY (178.3 ACRES±)
- UNIT BOUNDARY
- CELL BOUNDARY
- DISPOSAL AREA BOUNDARY (122.5 ACRES±)
- UNIT IV BOUNDARY
- 10' EXISTING CONTOUR
- FENCE LINE
- PAVED ROAD
- UTILITY EASEMENT
- STORMWATER BASIN
- POWERPOLE
- FIRE HYDRANT (3)
- EXISTING GROUNDWATER MONITORING WELL
- EXISTING LFG GAS PROBE (ACTIVE)
- EXISTING LFG GAS PROBE (INACTIVE)
- LFG GAS PROBE (DECOMMISSIONED)
- GROUNDWATER MONITORING WELL (DECOMMISSIONED)
- UNIT IV
- GRID
- HYDROGEOLOGIC CROSS SECTION A-A' SEE FIGURE II.5.5
- HYDROGEOLOGIC CROSS SECTION B-B' SEE FIGURE II.5.5

| METHANE MONITORING RESULTS SANDOVAL COUNTY LANDFILL | |
|---|----------------------------|
| 02/09/2015 Monitoring Event Permanent Landfill Gas Monitoring Probes | |
| Monitoring Probe ID | CH ₄ (% in air) |
| LFG-2 | 0 |
| LFG-3 | 0 |
| LFG-5 | 0.1 |
| LFG-6 | 0 |
| LFG-7 | 0 |
| LFG-8 | 0.1 |
| LFG-9B | 0.1 |
| LFG-10A | 0 |
| LFG-12 | 0 |
| LFG-14 | 0 |
| LFG-15 | 0 |
| LFG-16 | 0 |
| LFG-17 | 0 |
| LFG-18 | 0 |
| LFG-19 | 0 |
| LFG-20 | 0 |
| LFG-21 | 0 |

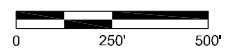
| METHANE MONITORING RESULTS SANDOVAL COUNTY LANDFILL | |
|---|----------------------------|
| 02/09/2015 Monitoring Event Permanent Landfill Gas Monitoring Probes | |
| Landfill Structures | CH ₄ (% in air) |
| Scalehouse (ticket office) | 0 |
| Scalehouse (supervisors office) | 0 |
| Employee Breakroom (underneath) | 0 |
| Spotter's Shed | 0 |
| Recycling Storage | 0 |
| Portable Toilet | 0 |
| Gray Storage Shed | 0 |
| Composting Office | 0 |
| Public Works Dept. Admin. Office | 0 |
| Roads & Fleet Maintenance Building | 0 |
| Trailer | 0 |
| North Storage Shed | 0 |
| Recycling Center Office | 0 |
| Storage Locker | 0 |
| Recycling Center Storage #2 | 0 |
| Recycling Center Storage #3 | 0 |
| Recycling Center Portable Toilet | 0 |

NOTE:
Probes LFG-17, 18, & 19 were permanently installed on 03/19/2015.
The measurements shown here for these probes are from temporary barhole probes at these same locations.

| GROUNDWATER MONITORING WELL LOCATIONS | | | | |
|---------------------------------------|------------|------------|-----------|-----------------|
| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| MW-1 | 1566727.43 | 1530025.09 | 5322.45 | MONITORING WELL |
| MW-2 | 1568159.63 | 1531290.50 | 5414.11 | MONITORING WELL |
| MW-3 | 1567315.31 | 1531064.87 | 5374.32 | MONITORING WELL |
| MW-5 | 1567869.24 | 1528110.28 | 5362.38 | MONITORING WELL |
| MW-6 | 1568758.30 | 1530695.17 | 5421.90 | MONITORING WELL |
| MW-7 | 1569394.69 | 1531377.96 | 5363.30 | MONITORING WELL |

NOTES:
1. THE COORDINATES AND ELEVATIONS FOR THE GROUNDWATER MONITORING WELL LOCATIONS ON THE ABOVE TABLE ARE MODIFIED (SURFACE) NEW MEXICO STATE PLANE COORDINATES - CENTRAL ZONE, NAD 83. SURVEY DATA OBTAINED BY TIM MARTINEZ SURVEYING ON 3-26-2015. THE COORDINATES AND ELEVATIONS ARE EXPRESSED IN U. S. SURVEY FEET.

- NOTES:
- Site boundary from the 2014 Vacation Plat 093013 RRE book 25, page 65, Sandoval County Landfill.
 - Planimetric features based on the topographic/planimetric mapping performed on January 24, 2014 by Aertech Mapping Inc. Landfill operation facilities field verified on March 18, 2015.



ENVIRONMENTAL MONITORING NETWORK

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

| | | |
|--|-----------------------------|---|
|  Gordon Environmental, Inc. Consulting Engineers | | 213 S. Camino del Pueblo Bernalillo, New Mexico, USA Phone: 505-867-6990 Fax: 505-867-6991 |
| DATE: 04/07/2015 | CAD: SITE PLAN.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: MJC | FIGURE II.5.7 |
| APPROVED BY: JKG | gei@gordonenvironmental.com | |

The direction of groundwater flow at SCLF has historically been to the east-northeast towards the Rio Grande, and groundwater contour modeling results from the 03/18/2014 sampling event are consistent with this historical trend. **Figure II.5.6** presents the groundwater elevation contour map based on depth-to-water measurements recorded on 03/18/2014. The recorded data indicate that the current groundwater table ranges in elevation from 4990.65 ft amsl in upgradient well MW-5 to 4972.06 fmsl in downgradient well MW-3.

The groundwater flow direction is generally northeastward, following a hydraulic gradient of 0.0062 ft/ft. Assuming a saturated hydraulic conductivity (K_{SAT}) of 3.28×10^{-7} ft/sec to 3.28×10^{-5} ft/sec (10^{-5} cm/sec to 10^{-3} cm/sec, *Freeze and Cherry, 1979*) and an effective porosity (n) of 0.45 (*Domenico and Schwartz, 1998*) for semi-consolidated silty sand, the average linear groundwater velocity ranges from approximately 0.14 ft/year to 14.2 ft/year. Permitted water wells within a minimum one-mile radius of the site are shown on the Water Well Map provided as **Attachment II.5.A**, the nearest of which is located approximately 927 ft southwest of the solid waste disposal boundary.

Based on DTW measurements recorded since 1999, groundwater elevation across the site has been decreasing at an average rate approaching one foot per year (**Table II.5.3**). The temporal depth-to-water measurements indicate that wells MW-2, 3, 5, 6, and 7 may likely provide adequate water for sampling over the next 5 to 12 years. However, Sandoval County may elect to decommission select wells pro-actively, and install replacement wells when water levels compromise sampling, and thus dictate the need for replacement.

Prior to implementing these activities, the County will develop the required Workplan for SWB review and approval. Consistent with the requirements of 20.9.9.9.E NMAC, the County will submit a written Notice of Intent to the Department at least 14 days prior to well decommissioning/installation activities, along with SWB and the New Mexico Office of the State Engineer (NMOSE) documentation.

TABLE II.5.3
Groundwater Level Drawdown Summary (1999-2015)
Sandoval County Landfill

| Well | Average Rate of Drawdown | Period of Record | Projected Functional Lifespan ^(2, 3) |
|---------------------|--------------------------|------------------|---|
| MW-1 ⁽¹⁾ | 0.73 ft/yr ± | 1999-2015 | N/A |
| MW-2 | 0.88 ft/yr ± | 1999-2015 | 4.7 years ± |
| MW-3 | 0.87 ft/yr ± | 1999-2015 | 5.3 years ± |
| MW-5 | 0.70 ft/yr ± | 2003-2015 | 9.5 years ± |
| MW-6 | 0.78 ft/yr ± | 2004-2015 | 10.3 years ± |
| MW-7 | 0.79 ft/yr ± | 2004-2015 | 11.7 years ± |

Notes:

⁽¹⁾ MW-1 utilized for DTW measurements only. Not part of groundwater sampling program.

⁽²⁾ Projected years remaining until water level intersects pump inlet.

⁽³⁾ Functional lifespan may be reduced due to declining well recharge rates.

The current monitoring program for SCLF consists of the annual collection and analysis of the approved alternate list of inorganic and organic parameters shown in **Table II.5.4** for wells MW-2, 3, 5, 6, and 7. Initially, an NMED-approved alternate parameter list and sampling frequency were established in 2005 through statistical analysis of groundwater samples collected between April 1996 and February 2005. Consistent with the requirements of 20.9.9.11.B NMAC, groundwater samples collected from all on-site wells in March 2009 were analyzed for the entire suite of indicator parameters listed in Subsections A&C of 20.9.9.20 NMAC.

The 2005 alternate parameter list was updated in June 2009 to incorporate the results of statistical analyses incorporating groundwater quality data from sampling events conducted from April 1996 to March 2008. On 03/18/2014, groundwater samples were again collected and analyzed for the entire suite of indicator parameters listed in Subsections A&C of 20.9.9.20 NMAC. Based on the analytical results of this event, the approved 2009 alternate parameter list was retained for routine annual groundwater detection monitoring.

TABLE II.5.4 (sheet 1 of 2)
Alternate Parameter List and Monitoring Schedule
Sandoval County Landfill

| Subsection A Organic Parameters | Units | EPA Method | Sampling Frequency | |
|--|--------------|-----------------------|---------------------------|----------------|
| | | | Annual | 5 Years |
| Volatile Organic Compounds (VOCs) | | | | |
| Acetone | µg/L | 8260 | X | X |
| Acrylonitrile | µg/L | 8260 | X | X |
| Benzene | µg/L | 8260 | X | X |
| Bromochloromethane | µg/L | 8260 | X | X |
| Bromodichloromethane | µg/L | 8260 | X | X |
| Bromoform | µg/L | 8260 | X | X |
| Methyl bromide (Bromomethane) | µg/L | 8260 | X | X |
| 2-Butanone (Methyl ethyl ketone - MEK) | µg/L | 8260 | X | X |
| Carbon Disulfide | µg/L | 8260 | X | X |
| Carbon Tetrachloride | µg/L | 8260 | X | X |
| Chlorobenzene | µg/L | 8260 | X | X |
| Chloroethane (Ethyl Chloride) | µg/L | 8260 | X | X |
| Chloroform (Trichloromethane) | µg/L | 8260 | X | X |
| Methyl chloride (Chloromethane) | µg/L | 8260 | X | X |
| Dibromochloromethane | µg/L | 8260 | X | X |
| Methylene Bromide (Dibromomethane) | µg/L | 8260 | X | X |
| o-Dichlorobenzene (1,2-) | µg/L | 8260 | X | X |
| p-Dichlorobenzene (1,4-) | µg/L | 8260 | X | X |
| trans-1,4-Dichloro-2-butene | µg/L | 8260 | X | X |
| 1,1-Dichloroethane | µg/L | 8260 | X | X |
| 1,2-Dichloroethane (EDC) | µg/L | 8260 | X | X |
| 1,1-Dichloroethene (1,1-DCE) | µg/L | 8260 | X | X |
| cis-1,2-Dichloroethene | µg/L | 8260 | X | X |
| trans-1,2-Dichloroethene | µg/L | 8260 | X | X |
| Methylene chloride (Dichloromethane) | µg/L | 8260 | X | X |
| 1,2-Dichloropropane | µg/L | 8260 | X | X |
| cis-1,3-Dichloropropene | µg/L | 8260 | X | X |
| trans-1,3-Dichloropropene | µg/L | 8260 | X | X |
| Ethylbenzene | µg/L | 8260 | X | X |
| 2-Hexanone | µg/L | 8260 | X | X |
| Methyl iodide (Iodomethane) | µg/L | 8260 | X | X |
| 4-Methyl-2-pentanone (MIBK) | µg/L | 8260 | X | X |
| Styrene | µg/L | 8260 | X | X |
| 1,1,1,2-Tetrachloroethane | µg/L | 8260 | X | X |
| 1,1,2,2-Tetrachloroethane | µg/L | 8260 | X | X |
| Tetrachloroethene (PCE) | µg/L | 8260 | X | X |
| Toluene | µg/L | 8260 | X | X |
| 1,1,1-Trichloroethane (TCA) | µg/L | 8260 | X | X |
| 1,1,2-Trichloroethane | µg/L | 8260 | X | X |
| Trichloroethene (1,1,2-Trichloroethylene, TCE) | µg/L | 8260 | X | X |
| Trichlorofluoromethane (CFC 11) | µg/L | 8260 | X | X |
| 1,2,3-Trichloropropane | µg/L | 8260 | X | X |
| Vinyl Acetate | µg/L | 8260 | X | X |
| Vinyl Chloride | µg/L | 8260 | X | X |
| Xylenes (Total) | µg/L | 8260 | X | X |
| EDB & DBCP | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | µg/L | 504.1 | X | X |
| 1,2-Dibromoethane (EDB) | µg/L | 504.1 | X | X |
| Semi-Volatile Organic Compounds (SVOCs) | | | | |
| Phenolics | µg/L | 9067 | X | X |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | |
| Benzo(a)pyrene | µg/L | 8310 | | X |
| Naphthalene plus monomethylnaphthalenes | µg/L | 8310 | | X |
| Polychlorinated Biphenyls (PCBs) | µg/L | 8082 | | X |

TABLE II.5.4 (sheet 2 of 2)
Alternate Parameter List and Monitoring Schedule
Sandoval County Landfill

| Subsection A Parameters | Inorganic | Units | EPA Method | Sampling Frequency | |
|--|-----------|-------------|---------------|--------------------|---------|
| | | | | Annual | 5 Years |
| Heavy Metals | | | | | |
| Antimony, Sb | mg/L | 200.8 | | | X |
| Arsenic, As | mg/L | 200.8 | X | | X |
| Barium, Ba | mg/L | 200.7 | X | | X |
| Beryllium, Be | mg/L | 200.7 | | | X |
| Cadmium, Cd | mg/L | 200.7 | | | X |
| Chromium, Cr | mg/L | 200.7 | X | | X |
| Cobalt, Co | mg/L | 200.7 | X | | X |
| Copper, Cu | mg/L | 200.7 | | | X |
| Lead, Pb | mg/L | 200.8 | X | | X |
| Nickel, Ni | mg/L | 200.7 | | | X |
| Selenium, Se | mg/L | 200.8 | | | X |
| Silver, Ag | mg/L | 200.7 | | | X |
| Thallium, Tl | mg/L | 200.8 | | | X |
| Vanadium, V | mg/L | 200.7 | | | X |
| Zinc, Zn | mg/L | 200.7 | X | | X |
| Other Inorganic Chemicals | | | | | |
| Aluminum, Al | mg/L | 200.7 | X | | X |
| Boron, B | mg/L | 200.7 | | | X |
| Chloride, Cl ⁻ | mg/L | 300.0 | X | | X |
| Cyanide, CN ⁻ | mg/L | 335.3 | | | X |
| Fluoride, F | mg/L | 300.0 | X | | X |
| Iron, Fe | mg/L | 200.7 | X | | X |
| Manganese, Mn | mg/L | 200.7 | X | | X |
| Mercury, Hg | mg/L | 245.2 | | | X |
| Molybdenum, Mo | mg/L | 200.7 | | | X |
| Nitrate as N, NO ₃ -N | mg/L | 300.0 | X | | X |
| Sulfate, SO ₄ ²⁻ | mg/L | 300.0 | X | | X |
| Uranium, U | mg/L | 200.8 | X | | X |
| Radioactivity | | | | | |
| Combined Radium, Ra 226 & Ra 228 | pCi/L | 903.0/904.0 | | | X |
| Physical Parameters | | | | | |
| pH | Std Units | Field/Lab | X | | X |
| Total Dissolved Solids, TDS | mg/L | 160.1 | X | | X |

| Subsection C Parameters | Inorganic | Units | EPA Method | Sampling Frequency | |
|---|-----------|-------|---------------------|--------------------|---------|
| | | | | Annual | 5 Years |
| Inorganic Chemicals | | | | | |
| Ammonia as N, NH ₃ -N | | mg/L | 4500NH ₃ | X | X |
| Calcium, Ca | | mg/L | 200.7 | X | X |
| Magnesium, Mg | | mg/L | 200.7 | X | X |
| Phosphate, PO ₄ ²⁻ | | mg/L | 300.0 | X | X |
| Potassium, K | | mg/L | 200.7 | X | X |
| Sodium, Na | | mg/L | 200.7 | X | X |
| Total Kjeldahl Nitrogen, TKN | | mg/L | 351.3 | X | X |
| Total Nitrogen, TN | | mg/L | Calculated | X | X |
| Total Organic Carbon, TOC | | mg/L | 415.2 | X | X |
| Physical Parameters | | | | | |
| Bicarbonate Alkalinity, HCO ₃ ⁻ (as CaCO ₃) | | mg/L | 2320B | X | X |
| Carbonate Alkalinity, CO ₃ ⁻ (as CaCO ₃) | | mg/L | 2320B | X | X |
| Specific Conductance | | µS/cm | Field/Lab | X | X |
| Temperature | | °C | Field | X | X |
| Depth to Water | | Feet | Field | X | X |
| Groundwater Elevation | | MSL | Field | X | X |

Subsequent to the 03/18/2014 “fifth-year” sampling event, on 07/03/2014 GEI submitted to SWB the *Updated Statistical Calculations* for the site’s approved alternate list inorganic parameters and phenolics. The updated statistics, approved by SWB on 02/09/2015, provide statistical analyses of the groundwater monitoring datasets from 1996-2014 for wells MW-2 and MW-3; from 2003-2014 for well MW-5; and from 2004-2014 for wells MW-6 and MW-7. Since 1996, no organic compounds other than phenolics have been detected at any on-site well above the laboratory practical quantitation limit (PQL). Therefore, statistical updates for these organic parameters have not been performed.

The 07/03/2014 statistical analyses include updates to the background concentration values (BCVs), assessment monitoring levels (AMLs), and intra-well upper tolerance limit values (UTLVs) for each approved alternate list inorganic parameter and phenolics for each active well. The applicable statistical calculations utilize analytical datasets ranging in size from n=7 to n=25 for the site’s historical groundwater quality database from 1996-2014. The updated intra-well UTLVs were calculated using the NMED-approved statistical software program, Sanitas®.

A summary of the 07/03/2014 updated statistical values for the current alternate list of inorganic parameters (and phenolics) for each active monitoring well (i.e., wells MW-2, 3, 5, 6, and 7) is provided as **Attachment II.5.B**. Site-wide established AMLs for the remaining Subsection A organic parameter are also provided as **Attachment II.5.B**. The established AMLs provided in **Attachment II.5.B** will be used as detection monitoring thresholds for future sampling events.

The results of the evaluation and statistical analysis of the background groundwater quality databases indicate no impacts to groundwater quality by SCLF. The demonstrations presented in the NMED-approved *Updated Statistical Calculations*, show that the current, annual groundwater monitoring program for the approved alternate parameter list is more than adequate to detect potential impacts, and to protect human health and the environment. The established AMLs for each parameter are based on valid data, subjected to rigorous and proven evaluation and statistical methods, and are indicative of *in situ* groundwater quality beneath the site.

1.8 Landfill Gas Monitoring

The current landfill gas (LFG) monitoring program for SCLF consists of quarterly methane monitoring at the 17 active perimeter monitoring points and the 16 on-site structures identified on **Figure II.5.7** and listed in **Table 11.5.5**. Additional monitoring points may be added if monitoring results dictate the need to augment the existing network.

The extensive LFG monitoring database for SCLF encompasses approximately 16 years of historical monitoring results from 1996 through the 1st quarter of 2015. 20.9.6.9.A(3)(b)(iv)(f) NMAC requires that methane concentrations along the landfill property boundary and within structures be identified on a topographic map. Due to the magnitude of both the LFG monitoring system (i.e., 17 probes and 16 structures) and database, the historical methane monitoring results are provided as **Attachment II.5.C**.

Figure II.5.7 does, however, provide methane measurements from the most recent monitoring event (i.e., 02/09/2015) at each monitoring point. The monitoring results provided on **Figure II.5.7** and in **Attachment II.5.C** indicate that methane has not been detected above the regulatory thresholds at any of the monitoring points shown in **Table II.5.5**.

2.0 CLOSURE PLAN

This Closure Plan includes the following measures to meet the requirements set forth in the 2007 New Mexico Solid Waste Rules (20.9.6 NMAC); specifically 20.9.6.8 NMAC and 20.9.6.9 NMAC. SCLF may perform incremental closure of cells as they reach final grade in order to keep open areas to a minimum.

2.1 Closure Notification and Schedule

Consistent with the requirements of 20.9.6.8.D NMAC, SCLF will notify NMED in advance of its intent to close the site for waste acceptance. SCLF will notify the Secretary in writing that a notice of intent to close the landfill has been placed in the Facility Operating Record at least 90 days before closure occurs; and will also notify the Secretary in writing within 14 days after becoming a locked facility.

Table II.5.5
Landfill Gas Monitoring Points and Compliance Standards
Sandoval County Landfill

| Unit Monitored | Perimeter Point ID | Monitoring Frequency | Compliance Standard |
|----------------|----------------------------------|----------------------|--|
| II | LFG-2 | Quarterly | <5% methane by volume in air (100% LEL) |
| I | LFG-3 | | |
| I | LFG-5 | | |
| II | LFG-6 | | |
| I | LFG-7 | | |
| I | LFG-8 | | |
| II, III | LFG-9B ¹ | | |
| II, III | LFG-10A ² | | |
| II, III | LFG-12 | | |
| III | LFG-14 | | |
| III | LFG-15 | | |
| III | LFG-16 | | |
| III | LFG-17 ³ | | |
| III | LFG-18 ³ | | |
| III | LFG-19 ³ | | |
| III | LFG-20 | | |
| III | LFG-21 | | |
| Structures | | | |
| III | Scalehouse (ticket office) | Quarterly | <1.25% methane by volume in air (25% LEL) |
| III | Scalehouse (supervisor’s office) | | |
| III | Employee Breakroom | | |
| III | Spotter’s Shed | | |
| III | Recycling Storage | | |
| III | Portable Toilet | | |
| III | Grey Storage Shed | | |
| II | Composting Office | | |
| III | Public Works Dept. Admin. | | |
| III | Roads & Fleet Maintenance Bldg. | | |
| III | Trailer | | |
| III | North Storage Shed | | |
| II | Recycling Center Office | | |
| II | Storage Locker | | |
| II | Recycling Center Storage #2 | | |
| II | Recycling Center Storage #3 | | |
| II | Recycling Center Portable Toilet | | |

Notes:

Points LFG-1, 4, 11, and 13 were approved for deletion from the monitoring network by NMED on 04/24/12.

¹ LFG-9B replaces LFG-9A, which was decommissioned in 05/10.

² LFG-10A replaces LFG-10, which was decommissioned in 01/04.

³ Probes LFG-17, 18, and 19 installed 03/20/2015.

These closure activities will commence no later than 30 days after the final known receipt of waste, and will be completed in accordance with the Closure Plan within 180 days of the final waste acceptance date, unless otherwise approved. As allowed by 20.9.6.9.A(4) NMAC, extensions of the closure period may be granted by the Secretary if the SCLF owner or operator demonstrates that closure will take longer than 180 days; and has taken and will continue to take all steps necessary to prevent potential threats to public health, welfare, and the environment.

On-site structures will be dismantled and disposed of, or relocated for re-use prior to final cover construction. Signs will be posted at the site entrance (per 20.9.6.9.A.(3)(g) NMAC) and along the perimeter of the landfill boundary at a frequency of at least two signs per perimeter boundary. The signs will be posted in such a manner that a person can easily discern the legend, and will conform to the requirements of 20" x 14" upright format signs. Spacing between any two lines shall be at least equal to the height of the upper two lines. The signs will read as follows in English and Spanish:

CLOSED LANDFILL – NO TRESPASSING
NO DUMPING PERMITTED – VIOLATORS WILL BE PROSECUTED
SANDOVAL COUNTY LANDFILL
(505) 867-0814

2.2 Final Cover Design and Installation

The Final Grading Plan has been developed for the disposal areas of the Landfill, and the final contours are provided as **Attachment II.5.D**. To the extent possible, SCLF currently plans to utilize locally available resources for incremental or final closure construction of the Landfill in an effort to promote sustainability of resources and minimize environmental impacts of importing soils. SCLF is proposing the use of an alternative final cover system that is consistent with the design standards specified in 20.9.4 NMAC, and takes advantage of the containment characteristic of the naturally available soils. The alternative final cover design is an evapotranspiration (ET) cap, specifically suited to these arid site conditions. The design of the ET cap layers are summarized below (in descending order), and shown graphically on **Figure II.5.8** (Final Cover Schematic):

Evapotranspiration (ET) Cap:

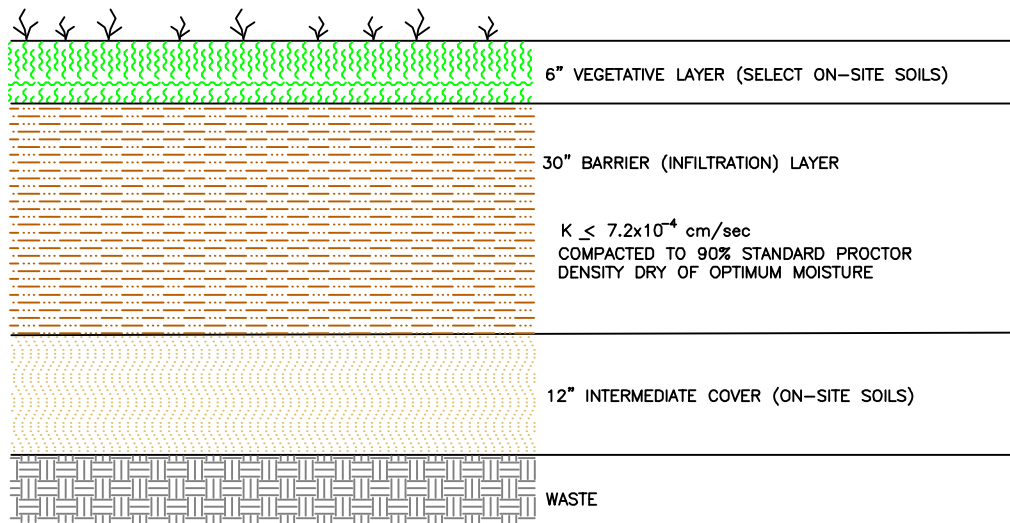
- 6-inch-thick Vegetative (Erosion) Layer (uncompacted)
- 30-inch-thick Barrier (Infiltration) Layer (compacted)
- 12-inch-thick Intermediate Cover (uncompacted)

Components of the proposed final cover system are described in greater detail below, and the successful performance of the design is demonstrated in **Volume III.10** (HELP Model) in compliance with the 1998 NMED Guidance Document. **Attachment II.5.E** provides a summary of the HELP model outputs, demonstrating that the proposed ET final cover design achieves an equivalent reduction in infiltration when compared to the prescriptive standards identified in 20.9.6.9.A(1)(b) NMAC.

2.2.1 Final Contours

The final contours for SCLF (**Attachment II.5.D**) have been designed to enhance slope stability, to promote drainage, to allow vegetation to be established, and to blend in with the natural terrain. When completed, the design final slopes (20.9.6.9.A(1)(e)) will range from 5% (minimum) to 25% (maximum). The demonstrations that these design grades will minimize erosion (below acceptable rates) and provide reduction in infiltration are provided in detail in **Volume III.6** (Erosion Calculations) and **Volume III.10** (HELP Model), respectively.

The final surface of the completed landform will be “crowned” so that positive drainage off the cap is promoted. In April 2015, SCLF submitted a RAID Grant Application to utilize processed organic matter for slope stabilization. The contours will provide sufficient slopes to minimize stormwater ponding, yet not be so steep so as to allow excessive erosion of cover material. Calculations demonstrating the effectiveness of specified erosion control measures are provided in **Volume III.6** (Erosion Calculations). Slope stability and drainage calculations are presented in **Volumes III.3** and **III.8**, respectively.



FINAL COVER DETAIL

NOT TO SCALE

FINAL COVER SCHEMATIC

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO



Gordon Environmental, Inc.

Consulting Engineers

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Bernalillo, New Mexico, USA
Phone: 505-867-6990
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Drawing: P:\acad 2003\211.00.01\PERMIT FIGURES\FIN COV.dwg
Date/Time: Apr. 10, 2015-06:43:25
Copyright © All Rights Reserved, Gordon Environmental, Inc. 2015

| | | |
|------------------|-----------------------------|----------------------|
| DATE: 04/10/2015 | CAD: FIN COV.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: MJC | |
| APPROVED BY: IKG | get@gordonenvironmental.com | FIGURE II.5.8 |

2.2.2 Final Cover Construction and CQA

Final cover construction and construction quality assurance (CQA) will be performed in accordance with the Final Cover Construction and CQA Plan provided as **Attachment II.5.F**, which addresses the requirements of 20.9.4.14 NMAC. Site-specific soil data (e.g., USCS, grain size analysis, permeability, etc.) obtained from soil samples collected during previous geotechnical site investigations (e.g., SHB AGRA, Inc., 1993; Roy F. Weston, 1996; and GEI, 2003/2004) were utilized in selection of soil types for HELP modeling detailed in **Volume III.10**. Final cover construction will be accomplished using conventional earthmoving equipment (e.g., vibratory or sheepsfoot rollers, scrapers, dump trucks, bulldozers, etc.). The alternative ET final cover configuration proposed for SCLF consists of the following components (from top down):

Vegetative Layer

The vegetative (i.e., erosion) layer will serve as the uppermost horizon in the proposed final cover design. It is comprised of a minimum of 6 in of soil derived from select on-site deposits stockpiled in advance that are capable of sustaining native plant growth, which may be seeded to achieve permanent soil stabilization. Unlike the infiltration layer, the vegetative layer soil will be placed uncompacted in order to assist in its function of promoting vegetative growth. During installation, care will be taken to ensure that the soil is not compacted. For example, construction equipment operators will be directed to minimize travel on the vegetative layer.

Barrier Layer

The barrier (i.e., infiltration) layer of the soil final cover system will be comprised of 30 in of compacted select on-site or pre-approved offsite soils. The function of the barrier layer is to reduce infiltration and resulting fluid flow through the waste profile in accordance with NMED standards.

This layer will be comprised of select on-site soils and compacted to 90% of the Standard Proctor density as specified in Final Cover Construction and CQA Plan (**Attachment II.5.F**). In accordance with field experience and United States Environmental Protection Agency (USEPA) Guidance (*Technical Guidance for RCRA/CERCLA Final Covers, April 2002*), the barrier layer will be typically compacted “dry of optimum” moisture to minimize the potential for desiccation. HELP modeling performed to evaluate the effectiveness of this barrier confirms the performance of this layer in reducing infiltration potential, and it is further protected from desiccation by the

vegetative layer. The hydraulic conductivity for the barrier layer (i.e., 7.2×10^{-4} cm/s) used for the Tier I demonstration results provided in **Volume III.10** (HELP Model), and discussed in **Attachment II.5.F**, will be used as a construction specification for final cover soils; as demonstrated by laboratory and field density testing.

Intermediate Cover

Intermediate cover is placed over filled areas prior to installation of the final cover, and consists of a minimum of 12 in of compacted select on-site soils. Currently, intermediate cover is in place in areas of the Landfill where active waste filling will not be conducted for a period of more than 60 days. Areas that will not be active within 24 months may be vegetated, sloped, and/or stabilized (20.9.5.9.O NMAC). Intermediate cover serves to minimize infiltration and is placed, maintained, and inspected as prescribed in the Plan of Operations (**Volume II.2**). Intermediate cover soils may be stripped when additional fill is placed above that area to preserve materials; and to promote flow of leachate and landfill gas.

2.3 Vegetation Plan

Vegetation may be established in the vegetative layer of the final cover to limit erosion potential. The vegetation will serve to achieve permanent soil stabilization, and to enhance the aesthetic appearance of the final landform. Accordingly, the seed mix and application rates (based on a conservative broadcast seeding methodology) shown in **Table II.5.6** are representative of the natural vegetation suitable for SCLF.

**Table II.5.6
Recommended Seed Mix
Sandoval County Landfill**

| Seed | Application Rate (pounds pure live seed per acre) |
|--|--|
| Bouteloua gracilis (Blue Grama) | 2 pounds per acre |
| Bouteloua cortipendula (Sideoats grama) | 4 pounds per acre |
| Hilaria jamessii (Galleta) | 4 pounds per acre |
| Atriplex canescens (Four-wing saltbrush) | 1 pounds per acre |
| Chrysothamnus nauseosus (Rabbit brush) | 1 pounds per acre |
| Linum lewisii (Blue Flax) | ½ pounds per acre |

The plant species selected are based on the recommendations of the New Mexico State Highway and Transportation Department, and are suited to site-specific conditions (e.g., soil type, climate, slope, and exposure) and the intended final use. The selected species have the capacity to achieve adequate density and vigor within an appropriate timeframe to stabilize the site sufficiently to permit suited uses with ordinary management activities. These select species are well-rooted (but not deep-rooted) and require minimal care for establishment and maintenance. Comparable vegetative species native to Sandoval County may also be used, depending on price and availability, and the success of emerging new species under development.

Site preparation will vary depending on the method used in seed planting. If seed is to be broadcast (either by whirlwind spreader or hydromulcher), the soil cover will be disked prior to planting. This will establish small furrows (2"-4" in depth) that reduce water erosion, retain soil moisture, and create a microclimate conducive to the germination of grass seeds. This method is recommended by the New Mexico Soil Conservation Service for the establishment of rangeland grasses in areas of New Mexico receiving approximately 10 in of annual precipitation (New Mexico Soil Conservation Service, 1988 and 1990). If seed is to be planted by use of a grass drill, no further site preparation is necessary following the placement of topsoil/vegetative layer. Care will be exercised to minimize disruption of the final cover system. The most commonly used planting methods are summarized below:

Seed Drilling

Drilling is the method recommended by NRCS in critical planting areas (i.e., areas having disturbed soil). Drills must be equipped with hoppers that can properly meter out the seed. The drill should also have depth bands, or some other positive type of control, to prevent seeding too deeply. The drill should be equipped with packer wheels or the area should be rolled immediately after seeding, as firm soil/seed contact is essential to insure successful plantings.

Broadcast Seeding

Broadcast seeding can be accomplished by two basic methods: whirlwind seeders and hydromulchers. The amount of seed planted, intensity of post-planting maintenance, and level of post-planting watering will vary depending on the planting method(s) used. If whirlwind seeders are used, the amount of seed planted per acre must be double that of other methods. In addition,

the area must be rolled following planting to ensure adequate soil/seed contact. These techniques are required because of low seed germination resulting from the great variability in depth of planting encountered when using this method.

Hydromulching

Hydromulching consists of mixing grass seed with straw, newspaper, or similar biodegradable material and broadcasting the shredded mixture on the soil surface. The shredded material acts as a soil stabilizer and retains moisture during the grass seed germination.

The timing of planting is a critical aspect for ensuring the revegetation of disturbed areas. Based on the recommendations of NRCS, the best time to plant is between June 15 and August 1 (to take advantage of monsoon rains), or between January 1 and May 1 (for spring rains) before windy months. Most of the grass species native to this region require high soil temperatures to ensure maximum seed germination. To maximize the germination of planted seed, the method used must place the proper amount of seed at the proper depth to ensure that the seeds are in full contact with the soil. Wood chips, compost, amended soils, etc. may also be used to augment vegetation.

Maintenance requirements following seed planting will depend on the method used and results expected. If a seed drill is used for planting, the establishment of a dead vegetation layer to hold the soil in place is recommended. This can be achieved by including annual species in the seed mix which will grow and die, leaving a standing crop that holds the soil while perennial species become established. The area also can be mulched with straw, compost, wood chips, or similar biodegradable material that will hold the soil in place and retain soil moisture.

If broadcast seeding is used, the site should be rolled to press the seed into the soil. This will achieve proper depth of planting and ensure maximum soil/seed contact. The placement of mulch (i.e., compost/wood chips) is also highly recommended following broadcast seeding. The mulch will hold the soil and seeds in place and retain soil moisture, ensuring maximum seed germination and seedling establishment.

Once native grass species have been established on closed landfill areas, future maintenance will be minimal and consist primarily of the removal of undesirable vegetation (i.e., invader species, deep-rooted plants, etc.). The plant species to be used for revegetation are perennial, self-seeding,

bunch grasses. Many of the species also reproduce by extending horizontal stems (stolons) through the soil and sprouting new grass clumps at various intervals along the stolons.

2.4 Removal of On-Site Facilities

The need to maintain or dismantle on-site structures during the post-closure care period will be determined based on conditions at that time. At the present time, it is envisioned that existing buildings will remain on-site as their locations do not conflict with other site development or closure activities; and they may be functional for post-closure support or other public works uses.

2.5 Materials Acceptance

Waste will not be accepted at SCLF after the closure period. Materials brought on-site for closure activities associated with the installation of the final cover system may include soil, seed, and possibly mulches, compost, and soil amendments. As specified in Section 3.0, final cover grading and maintenance may be implemented to correct localized erosion or differential settlement.

2.6 Site Security

In order to prevent unauthorized access, the SCLF is fenced on all perimeters with a 6-ft chain link topped with 3-strand barbed wire and an automatic locking gate at the facility entrance. Locking gates are secured at all times the facility is not operating. The **Permit Plans** show the location of existing fencing, gates, and other access control measures. Entry to the site by large animals and unauthorized persons will be prohibited during the closure period and throughout the post-closure period. To maintain site security, the existing fences and gates will be inspected on a routine basis and maintained as necessary, consistent with current practice. Signs will be posted on the perimeter warning against trespass, illegal dumping, etc. (see Section 2.1).

2.7 Recordkeeping

Records will be maintained in the Facility Operating Record to document closure activities. These records will include confirmation of adequate final cover thickness, a description of final cover system construction procedures, and as-built documentation. Subsequent to landfill closure activities, it is anticipated that the SCLF will utilize a licensed Professional Surveyor to perform a Plat of Survey for the site. Upon completion of closure activities, an as-built report will be

prepared and submitted to NMED by a licensed N.M. Professional Engineer specializing in solid waste facility design and closure.

As required by 20.9.6.9.A.(6) NMAC, a detailed description of the locations of areas of waste disposal at the facility and plat of the closed landfill, signed by registered surveyor, will be filed with the appropriate land-recording authorities (i.e., Sandoval County Assessor) for the SCLF and other parties as necessary. A notation on the deed to the landfill property will notify any potential purchaser that *“the land has been used as a landfill and its use is restricted as described in the post-closure care plan”*. Records will be maintained at the offices of the Sandoval County Public Works Department.

2.8 Closure Certification

A closure certification team will be identified to implement the closure process and oversee critical aspects of this Closure Plan. The team will be comprised of a Professional Engineer registered in the State of New Mexico, who has experience in landfill closure construction, and qualified field support staff. The critical technical elements to be documented by the team include, but are not limited to, the following:

- Characterization, particularly gradation, of the infiltration and erosion layer materials
- Moisture content and degree of compaction of the ET cap layers
- Grading of the waste and cover
- Thickness of the final cover layers
- Engineering Certification of completed closure

The NM Professional Engineer will confirm that the installation of the final cover materials meets the specifications of this Closure Plan by performing appropriate materials tests and confirming final cover material thicknesses. The Closure Documentation Record (**Figure II.5.9**) or a similar template will be used to record the field activities specific to final cover installation.

2.8.1 Testing and Surveying

The tests, methods, frequencies, and Closure Plan specifications for final cover installation are listed in **Table II.5.7** (Final Cover: CQA Materials Testing and Specifications). If new technologies that are as effective as those listed are available at the time of closure, they may be

FIGURE II.5.9
Closure Documentation Record
Sandoval County Landfill

[illegible]

Recorded By: _____

Certified By: _____

Inspected By: _____

Notes: _____

substituted in consultation with the Department. The tests will be performed at representative locations on a grid pattern approximately 100 ft by 100 ft extending over the cover area. All ex-situ tests will be performed on representative samples collected for laboratory evaluation.

Once closure activities have been completed, the NM Professional Engineer with appropriate landfill engineering experience will certify that the closure has been completed in accordance with this Closure Plan. A Certification Report sealed by the NM Professional Engineer that includes a summary of closure activities and engineering drawings detailing as-built conditions will be submitted to NMED within 60 days of closure completion. The Certification Report will be maintained in the Facility Operating Record.

3.0 POST-CLOSURE PLAN

The post-closure care period will begin following Engineering Certification and NMED approval of the completed closure activities for the SCLF. Consistent with the requirements of 20.9.6.9.A NMAC, SCLF will begin closure activities within 30 days after the last day that wastes are received; and closure activities will be completed within 180 days of that date. In addition, SCLF will notify the Secretary in writing within 14 days after becoming a locked facility. This Post-closure Plan is based upon the regulatory requirement to maintain and monitor the site for a 30-year period following closure and includes the required information as specified in 20.9.6.9.A(3)(h) NMAC. Based upon the results of the post-closure monitoring and inspection program, SCLF may request a reduced post-closure care period, or decreased inspection frequency, subject to NMED approval. Operations to be implemented as part of routine post-closure care activities include:

- Inspection and maintenance of the final cover system
- Inspection, maintenance, and operation of the leachate collection system
- Inspection, maintenance, and continued monitoring of landfill gas and groundwater monitoring systems
- Inspection and maintenance of stormwater control infrastructure
- Inspection and maintenance of site security features (e.g., perimeter fencing, gates, signage, etc.)

TABLE II.5.7
Final Cover: CQA Materials and Testing Specifications
Sandoval County Landfill

| Description | ASTM Test Method | Test Frequency | Test Standard |
|--|----------------------------|-----------------------------|--|
| 1.0 Pre-construction | | | |
| 1.1 Borrow Source Soil | | | |
| • Grain Size | C136 | 1 per 1,000 yd ³ | Classification |
| • Permeability | D2434 (or Falling Head) | 1 per 5,000 yd ³ | $k \leq 7.2 \times 10^{-4}$ cm/s (Barrier layer only) |
| • Atterberg Limits | D4318 | 1 per 5,000 yd ³ | Classification |
| • Proctor Density (standard) | D698 | 1 per 5,000 yd ³ | Classification |
| 1.2 Survey | | | |
| • Surface | NA | 1 per 100' on grid | Smooth surface |
| 1.3 Visual Inspection | NA | Continuous | No organic material or stones $\geq 2''$ |
| 2.0 Construction | | | |
| 2.1 Field Testing | | | |
| • Visual Inspection | NA | Continuous | No organic material or stones $\geq 2''$ |
| • Moisture/Density (nuclear) | D2922 | 4 tests/ac/lift | $\geq 90\%$ Standard Proctor (Dry of Optimum) Barrier layer only |
| 2.2 Survey (Layer Thickness) | | | |
| • Barrier Layer | NA | 1 per 100' on grid | Maximum 6" finished lifts |
| • Vegetative Layer | NA | 1 per 100' on grid | Minimum 6" finished lift |
| 3.0 Post-construction | | | |
| 3.1 Visual Inspection | NA | Continuous | No organic material or stones $\geq 2''$ |
| 3.2 Field Testing | | | |
| • Permeability (nuclear) (Infiltrometer optional) | D2434 | 1 test/2 ac | $k \leq 7.2 \times 10^{-4}$ cm/s (Barrier layer only) |
| 3.3 Survey | | | |
| • Layer Thickness | NA | 1 per 100' on grid | ≥ 30 inches barrier layer |
| | | | ≥ 6 inches vegetative layer |
| • Design Slope | NA | 1 per 100' on grid | 5% minimum, 25% maximum |

On an annual basis, SCLF will submit a report of the previous year's groundwater and LFG monitoring data, and a summary of site inspection/maintenance activities, to NMED. Each report will be submitted within 45 days from the end of the calendar year, or other schedule established by NMED. Details regarding installation, inspection, and monitoring for the various environmental control systems are listed below:

- Leachate monitoring and collection are described in the Leachate Management Plan (**Volume II.7**)
- Perimeter and structure LFG monitoring systems are described in the Landfill Gas Management Plan (**Volume II.6**)
- Provisions for stormwater management are shown on the **Permit Plans, Volume II.1**; and calculations documenting the system's efficacy are provided as **Volume III.8**.

3.1 Site Inspection and Maintenance Program

3.1.1 Site Inspection Program

During the post-closure care period, SCLF will be inspected at least semi-annually or as otherwise approved by NMED. A careful examination of the site using forms similar to the template provided as **Figure II.5.10** (Site Inspection Checklist) will be used to record site observations, and photo-documentation will supplement the record as necessary. The Site Inspection Checklists will be maintained as part of the Facility Operating Record, and will elaborate on the following items:

Final Cover

- Evidence of leachate
- Landfill gas odor
- Exposed waste
- Cracks greater than 1' in width and 6" in depth
- Surface water ponding
- Eroded or scoured soils
- Dead or stressed vegetation
- Vegetation growing taproots in areas not designated to accommodate them
- Vectors, such as flies and rodents
- Recordkeeping and reporting

Leachate Management System

- Volume of leachate in sumps
- Need for leachate extraction
- Conditions of pumps, pipes, caps, casing, etc.
- Recordkeeping and reporting

FIGURE II.5.10
SITE INSPECTION CHECKLIST
SANDOVAL COUNTY LANDFILL

Date: _____

Page ____ of ____

Inspectors: _____

Weather: Temperature _____ °F

Wind Speed _____

Skies _____

Wind Direction _____ mph

Precipitation (last 24 hrs) _____ inches

NOTES:

"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

Final Cover

| Location | Item | | | | | | | | Sample |
|----------|-------------------|---------------|--------|---------|---------|-------------------|---------------------|---------|--------|
| | Landfill Gas Odor | Exposed Waste | Cracks | Ponding | Erosion | Vegetation Stress | Vegetation Taproots | Vectors | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Surface Water Management System

| Location | Deficiency | | | Sample |
|----------|-------------------|-------------------|------------------|--------|
| | Erosion/Siltation | Structural Defect | Flow Obstruction | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Landfill Gas Monitoring/Control Systems

| Location | Deficiency | | Sample |
|----------|--------------|-------------------|--------|
| | Vent Failure | Structural Defect | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

NOTES:

Environmental Monitoring Network

- Structural integrity of perimeter LFG probes and groundwater monitoring wells
- Recordkeeping and reporting

Surface Water Management System

- Drainageway siltation or erosion, or other structural defects
- Flow obstructions
- Continued performance capability/maintenance required

Site Security

- Structural integrity of fencing, gate(s), signage
- Continued performance capability/maintenance required

Deficiencies identified during the site inspection will be corrected within 90 days, and reported to NMED in the Annual Reports submitted to the Department within 45 days after the end of each calendar year (20.9.6.9.B NMAC). Upon completion of the corrective action, appropriate documentation will be prepared and placed in the Facility Operating Record.

3.1.2 Maintenance Program

It is expected that routine site maintenance will be necessary to maintain the Landfill during the early post-closure period, as described below:

Final Cover

The final cover is expected to require periodic maintenance such as soil enhancement/repair, and attention to vegetative cover; as reflected in the C/PC Cost Estimates (**Attachment II.5.G**):

- *Soil Repair* – Cover repairs may be necessary due to ponding, surface water erosion or wind erosion. Ponding can result from differential settlement of the landfill contents, and erosion can be caused by runoff in areas without established vegetation or by repeated wind gusts. Areas where impacts are evident will be promptly repaired to maintain the integrity of the cover. Recently filled and covered areas will require the most maintenance since differential settlement decreases rapidly with time, and erosion is minimized as vegetation is established. Based on post-closure activities at similar landfills, it is estimated that a maximum of one acre of cover will require repair during each year of post-closure care. Soil for repairs will be obtained from on-site sources.
- *Vegetation Re-establishment* – Areas of cover requiring soil repair as described above may also require re-establishment of vegetative cover. However, since soil repair activities may extend beyond the perimeter of the repaired area, it is estimated that a maximum of two

acres of vegetation will need to be re-established for every acre of cover repaired (i.e., 2 acres of vegetation/yr).

- *Vegetation Care* – Routine care that will be required for the native grass vegetation chosen for the site will be to control the growth of undesirable plant species (e.g., taproots) and enhancement of appropriate vegetation conditions.
- Additional alternative stabilization options include application of compost; shredded green waste; wood chips; inert fill; as well as desert pavement, or berms, as applicable.

Leachate Management System

Closure of the SCLF will be conducted in compliance with 20.9.6.9.A NMAC. Based on post-closure activities at landfill sites at comparable arid locations, it is estimated that the SCLF leachate management systems will require minor maintenance on an annual basis. For example, it is expected that the leachate piping casing and locking caps, or pumps may require repair. Leachate will be removed from each sump on a routine basis such that the head on the liner is maintained at a depth of < 12” in accordance with the Leachate Management Plan (**Volume II.7**). The frequency of leachate removal from the sumps will be based on historic trends. Following closure, leachate may be transported for disposal at an approved publicly owned treatment works (POTW) or permitted liquids management facility. SCLF may request cessation of leachate monitoring and removal with NMED approval if leachate is not being produced.

Environmental Monitoring Network

Based on monitoring of closed and active sites, it is anticipated that some components of the LFG monitoring system will require minor repair and replacement. It is possible that the quick-connect ports and other PVC components will be subject to UV degradation. Coincident with LFG monitoring during the 30-year post-closure care period, these system components will be inspected at least annually for structural/operational integrity and replaced/repared as needed. The results of the inspections and any repairs will be noted in the Landfill Gas Monitoring Reports submitted to NMED annually.

During the 30-year post-closure period, groundwater monitoring wells may be subject to disruption, vegetative overgrowth, and vector harborage. During routine post-closure groundwater sampling, each on-site well will be inspected at least annually for evidence of these types of impacts, and repairs will be initiated immediately, if needed. The results of the inspections and any repairs will be noted in the Groundwater Monitoring Reports submitted to NMED annually.

Surface Water Management System

Based on post-closure activities at similar landfills, it is estimated that some components of the surface water management system may require minor general maintenance on an annual basis. For example, it is expected that a small quantity of drainageway rip-rap will require replacement each year; and perimeter drainageways may need to be cleared of obstructions or siltation to allow stormwater to flow unimpeded to the stormwater detention basins.

Site Security

During the 30-year post-closure care period, it is anticipated that the structural integrity of some elements of the site's security may require maintenance. These elements include site fencing, signage, and gates (including locks); which may require repair/replacement on a semi-annual basis.

Notification

Within 60 days following the end of the 30-year post-closure period, SCLF will submit a Post-Closure Report to NMED. The Report will consist of a summary of post-closure activities, and a certification by a Professional Engineer registered in the state of New Mexico with specific applicable landfill experience that the post-closure requirements and any applicable corrective action requirements have been completed; and that the conditions of this Post-closure Plan have been satisfied.

The post-closure care period for SCLF will terminate upon written verification by the Secretary that the requirements of this post-closure care plan have been satisfied. If the Secretary does not issue written verification, the Secretary will notify SCLF in writing that the activities required under 20.9.6 and 20.9.9 NMAC have not been conducted satisfactorily, and will specify the reasons for such a determination. The Secretary may require SCLF to amend the post-closure care plan in the Secretary believes that the present or future implementation of the Plan may cause a threat to human health or the environment. SCLF may request that the Secretary approve a reduction in the 30-year post-closure care period based on historical results and appropriate documentation.

3.2 Groundwater Monitoring Plan

The collection and analysis of groundwater samples at SCLF will continue through the post-closure care period. It is anticipated that annual sampling of active monitoring wells for the current, NMED-approved alternate parameter list will be performed during the post-closure period in accordance with the Groundwater Monitoring System Plan (GWMSP) provided in **Volume IV.2**, or the approved GWMSP in effect at the time. Consistent with 20.9.9.11.B NMAC, during the post-closure period, active monitoring wells will be sampled and analyzed for the full suite of indicator parameters listed in Subsections A&C of 20.9.9.20 NMAC at least once every 5 years. If an excluded constituent is reported as detected above the identified threshold during the mandatory 5-year monitoring event, the constituent will be reinstated to the approved alternate parameter list. Water quality samples will be submitted to a certified laboratory that complies with USEPA quality assurance/quality control (QA/QC) analytical procedures.

3.3 Landfill Gas Monitoring Plan

Quarterly LFG monitoring along the SCLF facility perimeter will continue after closure of the site. In addition, quarterly LFG monitoring will be performed in any structures that have not been dismantled. The need for monitoring and the frequency of monitoring will be evaluated during the post-closure care period, and will continue until:

1. The concentration of methane gas is <25% LEL for 4 consecutive measurements (i.e., one year) at each permanent perimeter monitoring point.
2. Methane is not detected in facility structures for 4 consecutive measurements (i.e., one year).

Any proposed changes to the LFG monitoring program for SCLF will be coordinated with NMED Solid Waste Bureau for approval prior to implementation. The Landfill Gas Management Plan (**Volume II.6**) will be in effect throughout the operational period of the site, and during the post-closure period. If monitoring determines that the concentration of methane exceeds the lower explosive limit (LEL) at the property line, or 25% of the LEL in any remaining facility structures, a corrective action plan will be developed and implemented with NMED concurrence as described in the Landfill Gas Management Plan (**Volume II.6**).

3.4 Leachate Monitoring Plan

It is anticipated that leachate monitoring during post-closure will be conducted at least semi-annually consistent with the Leachate Management Plan (**Volume II.7**). Following closure, the most effective treatment and disposal technology for leachate (if produced) will be determined and implemented with the approval of the Secretary. This may include supplemental disposal technologies such as hauling leachate off-site for treatment at a publicly owned treatment works (POTW) or other NMED-permitted disposal facility. Leachate management information will continue to be documented and maintained in the Facility Operating Record; and will also be provided to NMED as part of annual reporting. If it is determined that post-closure leachate management will include disposal at a POTW or other NMED-permitted disposal facility, several steps will be taken prior to initiating post-closure leachate disposal activities:

1. SCLF will identify a specific POTW or other permitted disposal facility, and obtain approval from the facility for leachate disposal.
2. SCLF will collect and submit leachate samples for laboratory analysis to demonstrate compliance with the disposal facility's leachate acceptance criteria for analytical parameters and concentrations.
3. A copy of the POTW approval letter and analytical test results will be provided to NMED, and will also be maintained in the Facility Operating Record.
4. Once approval is obtained from the identified facility, SCLF will update the Leachate Management Plan in effect at that time to include the disposal facility's approval letter, as well as the analytical parameters, concentrations, and transport methods specified by the facility.
5. The updated Plan will be submitted to NMED Solid Waste Bureau for approval as an administrative change to the Leachate Management Plan in effect at that time prior to implementation of alternative leachate disposal activities.
6. Following closure, SCLF may seek an exemption from leachate monitoring during the post-closure care period, with NMED approval.

3.5 Recordkeeping

Post-closure care data to be recorded include inspection dates, items inspected, and inspection results (**Figures II.5.9 and II.5.10**). If deficiencies are identified, the corrective measures and the follow-up inspection results will also be recorded. Records of the post-closure care and maintenance actions will be available for review by NMED upon request. Monitoring data and corrective measures performed will be maintained in the Facility Operating Record at the offices of Sandoval County, or other designated location.

3.6 Reporting

Reports of closure and post-closure activities including, but not limited to, monitoring, field investigation data, and maintenance procedures will be submitted to NMED within 45 days from the end of each calendar year or other approved schedule, in a format meeting the SWB requirements.

3.7 Final Use

No specific land use has been considered for the site after the post-closure period. However, the final landform could potentially be dedicated to passive and/or recreational uses such as:

- Livestock grazing
- Open-space park with shallow-rooted vegetation
- Community parks (e.g., playgrounds, radio controlled airplane park, etc.)
- Golf course
- Sports complexes (i.e., baseball, soccer, etc.)
- Communications tower

Unfilled portions of the site could be utilized to provide support structures for the passive/recreational uses (e.g., security buildings, club houses, concessions, ticket offices, parking lots, etc.). On areas of the site known to contain underlying waste, no significant structures (i.e., structures with foundations) or internal fencing will be allowed.

4.0 C/PC COST ESTIMATES

The cost estimate tables provided in **Attachment II.5.G** have been developed to address each of the required closure and post-closure activities stipulated in Sections 2.0 – 3.0 of this Plan in compliance with the Financial Assurance requirements of 20.9.10 NMAC. The closure cost estimate is based on a maximum open area requiring closure of Units I-III (i.e., 112.5 acres ± and a 5-acre portion of Unit IV. **Figure II.5.11** is a topographic map of the facility showing the fill area dimensions required by 20.9.6.9.A.(3)(b)(iv)(d) NMAC; and also provides the applicable disposal area acreages for which closure costs have been developed for Units I-IV.

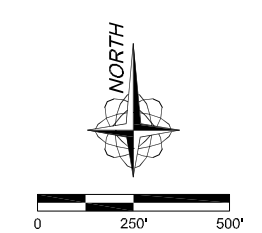


- LEGEND**
- SITE BOUNDARY (178.3 ACRES±)
 - UNIT BOUNDARY
 - CELL BOUNDARY
 - DISPOSAL AREA BOUNDARY (122.5 ACRES±)
 - UNIT IV BOUNDARY
 - 10' EXISTING CONTOUR
 - FENCE LINE
 - PAVED ROAD
 - STORMWATER BASIN
 - FIRE HYDRANT (3)
 - UNIT IV
 - CELL DIMENSIONS (UNITS I-III)
 - CELL DIMENSIONS (UNIT IV)

NOTE:


SITE BOUNDARY FROM THE 2014 VACATION PLAT 093013 RRE BOOK 25, PAGE 65, SANDOVAL COUNTY LANDFILL.

PLANIMETRIC FEATURES BASED ON THE TOPOGRAPHIC/PLANIMETRIC MAPPING PERFORMED ON JANUARY 24, 2014 BY AEROTECH MAPPING INC. LANDFILL OPERATION FACILITIES FIELD VERIFIED MARCH 18 2015.



FACILITY DIMENSIONS

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

Gordon Environmental, Inc.
Consulting Engineers

213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

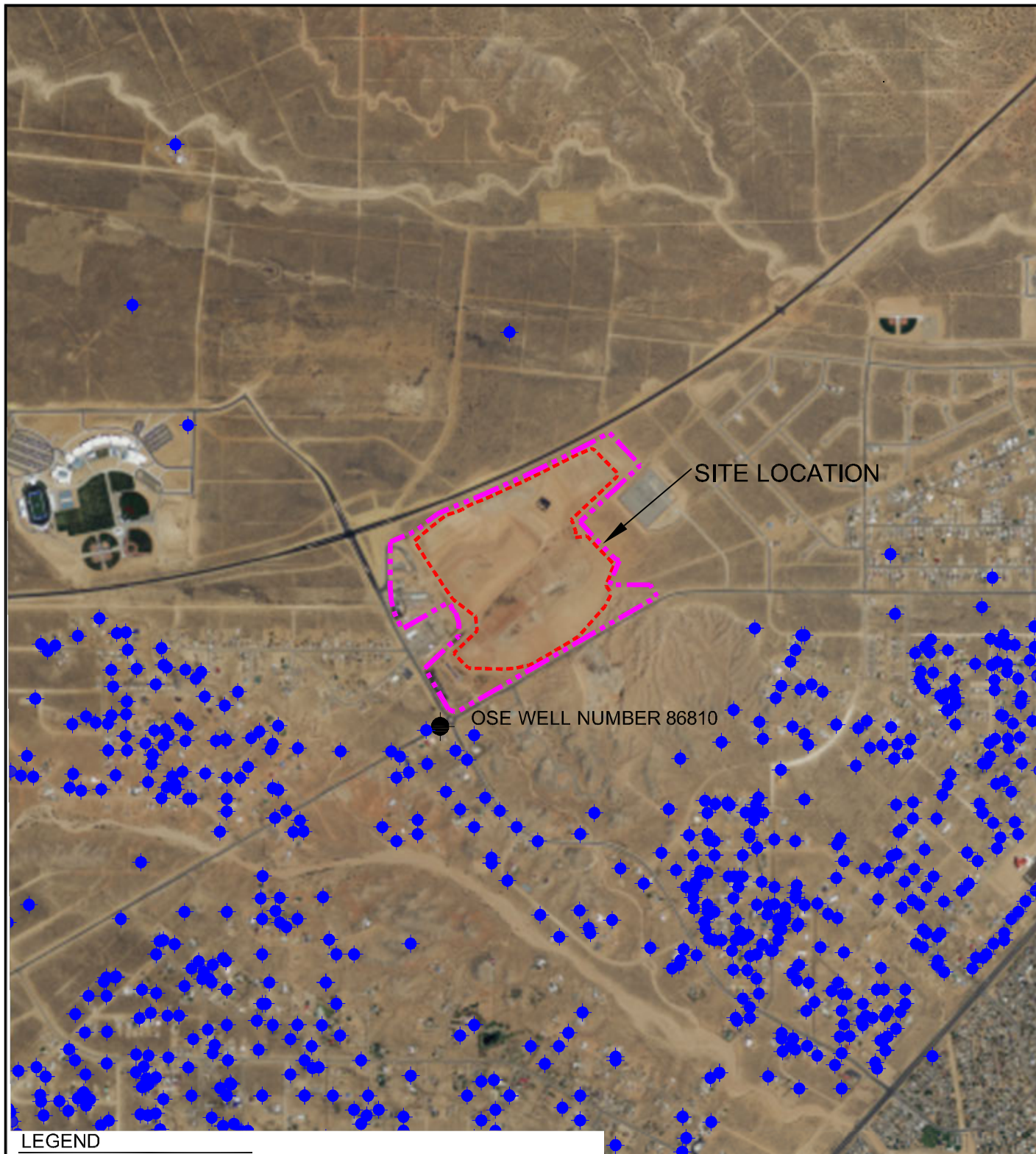
| | | |
|------------------|------------------------------|----------------------|
| DATE: 04/10/2015 | CAD: FACILITY DIMENSIONS.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: DRT | FIGURE II.5.11 |
| APPROVED BY: JKG | gei@gordonenvironmental.com | |

The post-closure cost estimates, including maintenance, monitoring, and potential Phase I/II Assessments, are applicable to the facilities that will be developed under the current Permit term. Consistent with the requirements of 20.9.10.9, 10, and 11 NMAC, SCLF will continue to adjust the C/PC cost estimates annually to reflect changes to the landfill footprint requiring closure, revisions to the C/PC cost estimates, and to account for increases in the Consumer Price Index. SCLF may perform incremental closure of cells as they reach final grade in order to keep the open area to a minimum. This will provide SCLF with the flexibility to adjust their Financial Assurance Cost Estimates (**Volume VI.1**) accordingly in the Annual Reports.

**APPLICATION FOR PERMIT RENEWAL AND MODIFICATION
SANDOVAL COUNTY LANDFILL**

**VOLUME II: LANDFILL MANAGEMENT PLANS
SECTION 5: CLOSURE/POST-CLOSURE PLAN**

**ATTACHMENT II.5.A
WATER WELL LOCATION MAP**



LEGEND

- SITE BOUNDARY
- DISPOSAL AREA
- ● WELL LOCATION

NOTES:

1. GEOGRAPHIC COORDINATES FOR THE CENTER OF THE SITE:
35.3092°N, 106.6198°W.
2. IMAGE REFERENCE:
2011 NAIP AERIAL MOSAIC OF SANDOVAL COUNTY.
3. WATER WELL DATA REFERENCE:
NMOSE WATER WELL ESRI SHAPE FILE - DATED APRIL, 2014
4. SITE BOUNDARY FROM THE 2014 VACATION PLAT 093013
RRE BOOK 25 PAGE 65 SANDOVAL COUNTY LANDFILL

Drawing: P:\acad 2003\211.00.01\PERMIT FIGURES\WELLS.DWG
Date/Time: Apr. 06, 2015-09:06:39 ; LAYOUT: A (P)

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WELL LOCATION MAP

SANDOVAL COUNTY LANDFILL
RIO RANCHO,, NEW MEXICO



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Fax: 505-867-6991

| | | |
|------------------|-----------------------------|----------------------|
| DATE: 04/06/2015 | CAD: WETLANDS.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: DRT | ATTACHMENT II.5.A |
| APPROVED BY: IKG | gel@gordonenvironmental.com | |

**APPLICATION FOR PERMIT RENEWAL AND MODIFICATION
SANDOVAL COUNTY LANDFILL**

**VOLUME II: LANDFILL MANAGEMENT PLANS
SECTION 5: CLOSURE/POST-CLOSURE PLAN**

**ATTACHMENT II.5.B
DETECTION MONITORING THRESHOLDS**

ATTACHMENT II.5.B

Detection Monitoring Thresholds

Sandoval County Landfill

Notes for Detection Monitoring Thresholds

- (1) All inorganic parameter and phenolic concentrations expressed in milligrams/liter (mg/L), except for Field pH (standard units), Field SC ($\mu\text{S}/\text{cm}$) and Field Temperature ($^{\circ}\text{C}$).
- (2) All organic parameter concentrations expressed in micrograms/liter ($\mu\text{g}/\text{L}$)

Calculated BCV (2014) = Calculated Background Concentration Value

- The simple mean (i.e., arithmetic average) of the concentrations of each parameter reported as detected a minimum of 2 times within the background data set (1996 - 2014). If reported as detected only once, the BCV is assigned the value of the single detection. If reported as 100% non-detect, the BCV is assigned the value of the highest laboratory practical quantitation limit (PQL) within the background data set (1996 - 2014).
- Pursuant to prevailing NMED guidance, Subsection C parameters are no longer assigned a presumptive assessment monitoring level (AML) and are, therefore, not compared to an established AML. Instead, a BCV is established for general comparison to recent analytical results.

Calculated UTLV (2014) = Calculated Upper Tolerance Limit Value

- Parameter and well-specific statistical value calculated via evaluation of applicable background monitoring analytical data by Sanitas®.

Established UTLV (2014) = Established Upper Tolerance Limit Value

- Parameters for which the calculated UTLV \leq the regulatory presumptive AML were not assigned an established UTLV.
- Parameters for which the background dataset contained 100% non-detects were not assigned an established UTLV.
- Non-detects are assigned a value of 1/2 the laboratory PQL for UTLV statistical calculations with Sanitas®.

Established AML (2014) = Established Assessment Monitoring Level

- Parameter and well-specific value defined as the greater of either the regulatory presumptive AML (05/05/10) or the calculated BCV for each well/parameter combination.
- For parameters without an established GWPS (e.g., acetone), the Established AML is calculated from the 2014 PQL values using the following formula: $\text{AML} = 1.95 \times \text{PQL}$.

PQL = Laboratory Practical Quantitation Limit

- Due to changes in the PQL over the Period of Record (POR), PQL is set equal to the value used for the 03/18/2014 sampling event.

Presumptive AML = Regulatory Presumptive Assessment Monitoring Level (20.9.9.20 NMAC Subsection A)

GWPS = Regulatory Groundwater Protection Standard (20.9.9.20 NMAC Subsection A)

CAL = Corrective Action Level

- Assigned the higher value of either the Established AML or the GWPS.

N/A = UTLV not assigned

ATTACHMENT II.5.B

Detection Monitoring Thresholds - Inorganic Parameters and Phenolics

Sandoval County Landfill

| Well MW-2 | | Calculated BCV (2014) | Calculated UTLV (2014) | Established UTLV (2014) | Established AML (2014) | PQL (2014) | 20-9.9.20 NMAC (05/05/10) | | CAL |
|-----------------------------------|--|-----------------------------|------------------------------|-------------------------------|------------------------------|---------------|---------------------------|-------|-------|
| PARAMETER ⁽¹⁾ | | | | | | | Presumptive AML | GWPS | |
| Subsection A Inorganic Parameters | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| | Arsenic, As | 0.0057 | 0.0079 | 0.0079 | 0.0057 | 0.001 | 0.005 | 0.01 | 0.01 |
| | Barium, Ba | 0.052 | 0.06729 | N/A | 0.5 | 0.002 | 0.5 | 1.0 | 1.0 |
| | Chromium, Cr | 0.026 | 0.052 | 0.052 | 0.026 | 0.006 | 0.025 | 0.05 | 0.05 |
| | Cobalt, Co | 0.030 | 0.015 | N/A | 0.0375 | 0.006 | 0.0375 | 0.05 | 0.05 |
| | Lead, Pb | 0.01 | 0.005 | N/A | 0.025 | 0.001 | 0.025 | 0.05 | 0.05 |
| | Zinc, Zn | 0.071 | 0.0729 | N/A | 7.5 | 0.01 | 7.5 | 10 | 10 |
| Other Inorganic Chemicals | | | | | | | | | |
| | Aluminum, Al | 0.43 | 1.5 | N/A | 3.75 | 0.02 | 3.75 | 5.0 | 5.0 |
| | Chloride, Cl ⁻ | 83.18 | 89.36 | N/A | 187.5 | 10 | 187.5 | 250 | 250 |
| | Fluoride, F | 0.81 | 1.045 | 1.045 | 0.81 | 0.1 | 0.8 | 1.6 | 1.6 |
| | Iron, Fe | 1.43 | 6.654 | 6.654 | 1.43 | 0.1 | 0.75 | 1.0 | 1.43 |
| | Manganese, Mn | 0.13 | 0.304 | 0.304 | 0.15 | 0.002 | 0.15 | 0.2 | 0.2 |
| | Nitrate as N, NO ₃ -N | 0.94 | 1.4 | N/A | 5.0 | 0.1 | 5.0 | 10 | 10 |
| | Sulfate, SO ₄ ²⁻ | 58.56 | 69.76 | N/A | 450 | 10 | 450 | 600 | 600 |
| | Uranium, U | 0.0036 | 1.25 | 1.25 | 0.015 | 0.01 | 0.015 | 0.03 | 0.03 |
| Physical Parameters | | | | | | | | | |
| | Field pH (standard units) | 7.70 | 7.068 - 8.305 | | N/A | 6 - 9 | 6 - 9 | 6 - 9 | 6 - 9 |
| | Total Dissolved Solids, TDS | 365.36 | | 486 | N/A | 750 | 750 | 1,000 | 1,000 |
| Subsection A Organic Parameter | | | | | | | | | |
| | Phenolics (total) | 0.005 | 0.0025 | N/A | 0.00375 | 0.0025 | 0.00375 | 0.005 | 0.005 |
| Subsection C Inorganic Parameters | | | | | | | | | |
| | Bicarbonate, HCO ₃ ⁻ (as CaCO ₃) | 110 | — | — | — | 20 | — | — | — |
| | Carbonate, CO ₃ ²⁻ (as CaCO ₃) | 2.0 | — | — | — | 2.0 | — | — | — |
| | Ammonia as N, NH ₃ -N | 1.0 | — | — | — | 1.0 | — | — | — |
| | Total Nitrogen, TN | 1.0 | — | — | — | 1.0 | — | — | — |
| | Total Kjeldahl Nitrogen, TKN | 0.6 | — | — | — | 1.0 | — | — | — |
| | Phosphate, PO ₄ | 1.0 | — | — | — | 0.5 | — | — | — |
| | Calcium, Ca | 41 | — | — | — | 1.0 | — | — | — |
| | Magnesium, Mg | 4.8 | — | — | — | 1.0 | — | — | — |
| | Potassium, K | 4.5 | — | — | — | 1.0 | — | — | — |
| | Sodium, Na | 72 | — | — | — | 1.0 | — | — | — |
| | Total Organic Carbon, TOC | 11.8 | — | — | — | 1.0 | — | — | — |
| | Field Temperature (°C) | 19.0 | — | — | — | — | — | — | — |
| | Field SC (µS/cm) | 550 | — | — | — | — | — | — | — |

ATTACHMENT II.5.B

Detection Monitoring Thresholds - Inorganic Parameters and Phenolics

Sandoval County Landfill

| Well MW-3 | | Calculated BCV (2014) | Calculated UTLV (2014) | Established UTLV (2014) | Established AML (2014) | PQL (2014) | 20.9.9.20 NMAC (05/05/10) | | CAL |
|-----------------------------------|--|-----------------------------|------------------------------|-------------------------------|------------------------------|---------------|---------------------------|-------|-------|
| PARAMETER ⁽¹⁾ | | | | | | | Presumptive AML | GWPS | |
| Subsection A Inorganic Parameters | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| | Arsenic, As | 0.0069 | 0.01 | 0.01 | 0.0069 | 0.001 | 0.005 | 0.01 | 0.01 |
| | Barium, Ba | 0.050 | 0.06628 | N/A | 0.5 | 0.002 | 0.5 | 1.0 | 1.0 |
| | Chromium, Cr | 0.027 | 0.078 | 0.078 | 0.027 | 0.006 | 0.025 | 0.05 | 0.05 |
| | Cobalt, Co | 0.03 | 0.015 | N/A | 0.0375 | 0.006 | 0.0375 | 0.05 | 0.05 |
| | Lead, Pb | 0.01 | 0.005 | N/A | 0.025 | 0.001 | 0.025 | 0.05 | 0.05 |
| | Zinc, Zn | 0.061 | 0.0612 | N/A | 7.5 | 0.01 | 7.5 | 10 | 10 |
| Other Inorganic Chemicals | | | | | | | | | |
| | Aluminum, Al | 0.33 | 1.5 | N/A | 3.75 | 0.02 | 3.75 | 5.0 | 5.0 |
| | Chloride, Cl ⁻ | 80.93 | 87.52 | N/A | 187.5 | 10 | 187.5 | 250 | 250 |
| | Fluoride, F | 0.69 | 0.8417 | 0.8417 | 0.8 | 0.1 | 0.8 | 1.6 | 1.6 |
| | Iron, Fe | 0.91 | 6.135 | 6.135 | 0.91 | 0.1 | 0.75 | 1.0 | 1.00 |
| | Manganese, Mn | 0.043 | 0.052 | N/A | 0.15 | 0.00 | 0.15 | 0.2 | 0.2 |
| | Nitrate as N, NO ₃ -N | 1.1 | 1.3 | N/A | 5.0 | 0.1 | 5.0 | 10 | 10 |
| | Sulfate, SO ₄ ²⁻ | 60.93 | 69.18 | N/A | 450 | 10 | 450 | 600 | 600 |
| | Uranium, U | 0.0032 | 1.25 | 1.25 | 0.015 | 0.01 | 0.015 | 0.03 | 0.03 |
| Physical Parameters | | | | | | | | | |
| | Field pH (standard units) | 7.77 | 7.378 - 8.314 | | N/A | 6 - 9 | 6 - 9 | 6 - 9 | 6 - 9 |
| | Total Dissolved Solids, TDS | 363.20 | 385.2 | N/A | 750 | 40 | 750 | 1,000 | 1,000 |
| Subsection A Organic Parameter | | | | | | | | | |
| | Phenolics (total) | 0.005 | 0.0025 | N/A | 0.00375 | 0.0025 | 0.00375 | 0.005 | 0.005 |
| Subsection C Inorganic Parameters | | | | | | | | | |
| | Bicarbonate, HCO ₃ ⁻ (as CaCO ₃) | 103 | — | — | — | 20 | — | — | — |
| | Carbonate, CO ₃ ²⁻ (as CaCO ₃) | 2.0 | — | — | — | 2.0 | — | — | — |
| | Ammonia as N, NH ₃ -N | 1.0 | — | — | — | 1.0 | — | — | — |
| | Total Nitrogen, TN | 1.1 | — | — | — | 1.0 | — | — | — |
| | Total Kjeldahl Nitrogen, TKN | 1.0 | — | — | — | 1.0 | — | — | — |
| | Phosphate, PO ₄ | 1.0 | — | — | — | 0.5 | — | — | — |
| | Calcium, Ca | 42 | — | — | — | 1.0 | — | — | — |
| | Magnesium, Mg | 4.8 | — | — | — | 1.0 | — | — | — |
| | Potassium, K | 4.3 | — | — | — | 1.0 | — | — | — |
| | Sodium, Na | 74 | — | — | — | 1.0 | — | — | — |
| | Total Organic Carbon, TOC | 7.8 | — | — | — | 1.0 | — | — | — |
| | Field Temperature (°C) | 18.9 | — | — | — | — | — | — | — |
| | Field SC (µS/cm) | 566 | — | — | — | — | — | — | — |

ATTACHMENT II.5.B

Detection Monitoring Thresholds - Inorganic Parameters and Phenolics

Sandoval County Landfill

| Well MW-5 | | Calculated BCV (2014) | Calculated UTLV (2014) | Established UTLV (2014) | Established AML (2014) | PQL (2014) | 20.9.9.20 NMAC (05/05/10) | | CAL |
|--|--|-----------------------------|------------------------------|-------------------------------|------------------------------|---------------|---------------------------|-------|-------|
| PARAMETER ⁽¹⁾ | | | | | | | Presumptive AML | GWPS | |
| Subsection A Inorganic Parameters | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| Arsenic, As | | 0.0080 | 0.012 | 0.012 | 0.008 | 0.001 | 0.005 | 0.01 | 0.01 |
| Barium, Ba | | 0.12 | 0.2291 | N/A | 0.5 | 0.002 | 0.5 | 1.0 | 1.0 |
| Chromium, Cr | | 0.047 | 0.14 | 0.14 | 0.047 | 0.006 | 0.025 | 0.05 | 0.05 |
| Cobalt, Co | | 0.03 | 0.015 | N/A | 0.0375 | 0.006 | 0.0375 | 0.05 | 0.05 |
| Lead, Pb | | 0.020 | 0.017 | N/A | 0.025 | 0.001 | 0.025 | 0.05 | 0.05 |
| Zinc, Zn | | 0.80 | 1.3 | N/A | 7.5 | 0.01 | 7.5 | 10 | 10 |
| Other Inorganic Chemicals | | | | | | | | | |
| Aluminum, Al | | 0.16 | 1.5 | N/A | 3.75 | 0.02 | 3.75 | 5.0 | 5.0 |
| Chloride, Cl ⁻ | | 176.00 | 206.4 | 206.4 | 187.5 | 10 | 187.5 | 250 | 250 |
| Fluoride, F | | 0.77 | 0.9399 | 0.940 | 0.8 | 0.1 | 0.8 | 1.6 | 1.6 |
| Iron, Fe | | 1.20 | 1.649 | 1.649 | 1.20 | 0.1 | 0.75 | 1.0 | 1.20 |
| Manganese, Mn | | 0.11 | 0.4475 | 0.4475 | 0.15 | 0.00 | 0.15 | 0.2 | 0.2 |
| Nitrate as N, NO ₃ -N | | 1.0 | 0.5 | N/A | 5.0 | 0.1 | 5.0 | 10 | 10 |
| Sulfate, SO ₄ ²⁻ | | 29.84 | 47.94 | N/A | 450 | 10 | 450 | 600 | 600 |
| Uranium, U | | 0.0026 | 1.25 | 1.25 | 0.015 | 0.01 | 0.015 | 0.03 | 0.03 |
| Physical Parameters | | | | | | | | | |
| Field pH (standard units) | | 7.53 | 6.622 - 8.435 | | N/A | 0.1 | 6 - 9 | 6 - 9 | 6 - 9 |
| Total Dissolved Solids, TDS | | 478.47 | 545.5 | | N/A | 40 | 750 | 1,000 | 1,000 |
| Subsection A Organic Parameter | | | | | | | | | |
| Phenolics (total) | | 0.0041 | 0.0049 | 0.0049 | 0.00407 | 0.0025 | 0.00375 | 0.005 | 0.005 |
| Subsection C Inorganic Parameters | | | | | | | | | |
| Bicarbonate, HCO ₃ ⁻ (as CaCO ₃) | | 119 | — | — | — | 20 | — | — | — |
| Carbonate, CO ₃ ²⁻ (as CaCO ₃) | | 2.0 | — | — | — | 2.0 | — | — | — |
| Ammonia as N, NH ₃ -N | | 1.0 | — | — | — | 1.0 | — | — | — |
| Total Nitrogen, TN | | 1.8 | — | — | — | 1.0 | — | — | — |
| Total Kjeldahl Nitrogen, TKN | | 1.4 | — | — | — | 1.0 | — | — | — |
| Phosphate, PO ₄ | | 1.0 | — | — | — | 0.5 | — | — | — |
| Calcium, Ca | | 45 | — | — | — | 1.0 | — | — | — |
| Magnesium, Mg | | 5.1 | — | — | — | 1.0 | — | — | — |
| Potassium, K | | 6.0 | — | — | — | 1.0 | — | — | — |
| Sodium, Na | | 105 | — | — | — | 1.0 | — | — | — |
| Total Organic Carbon, TOC | | 8 | — | — | — | 1.0 | — | — | — |
| Field Temperature (°C) | | 16.6 | — | — | — | — | — | — | — |
| Field SC (µS/cm) | | 798 | — | — | — | — | — | — | — |

ATTACHMENT II.5.B

Detection Monitoring Thresholds - Inorganic Parameters and Phenolics

Sandoval County Landfill

| Well MW-6 | | Calculated BCV (2014) | Calculated UTLV (2014) | Established UTLV (2014) | Established AML (2014) | PQL (2014) | 20.9.9.20 NMAC (05/05/10) | | CAL |
|--|--|-----------------------------|------------------------------|-------------------------------|------------------------------|---------------|---------------------------|-------|-------|
| PARAMETER ⁽¹⁾ | | | | | | | Presumptive AML | GWPS | |
| Subsection A Inorganic Parameters | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| Arsenic, As | | 0.009 | 0.011 | 0.011 | 0.009 | 0.001 | 0.005 | 0.01 | 0.01 |
| Barium, Ba | | 0.053 | 0.06468 | N/A | 0.5 | 0.002 | 0.5 | 1.0 | 1.0 |
| Chromium, Cr | | 0.012 | 0.016 | N/A | 0.025 | 0.006 | 0.025 | 0.05 | 0.05 |
| Cobalt, Co | | 0.03 | 0.015 | N/A | 0.0375 | 0.006 | 0.0375 | 0.05 | 0.05 |
| Lead, Pb | | 0.01 | 0.005 | N/A | 0.025 | 0.001 | 0.025 | 0.05 | 0.05 |
| Zinc, Zn | | 0.030 | 0.05 | N/A | 7.5 | 0.01 | 7.5 | 10 | 10 |
| Other Inorganic Chemicals | | | | | | | | | |
| Aluminum, Al | | 0.15 | 1.5 | N/A | 3.75 | 0.02 | 3.75 | 5.0 | 5.0 |
| Chloride, Cl ⁻ | | 124.29 | 130 | N/A | 187.5 | 10 | 187.5 | 250 | 250 |
| Fluoride, F | | 0.70 | 0.8235 | 0.8235 | 0.8 | 0.1 | 0.8 | 1.6 | 1.6 |
| Iron, Fe | | 0.17 | 0.22 | N/A | 0.75 | 0.1 | 0.75 | 1.0 | 1.0 |
| Manganese, Mn | | 0.079 | 0.15 | N/A | 0.15 | 0.00 | 0.15 | 0.2 | 0.2 |
| Nitrate as N, NO ₃ -N | | 0.89 | 1.0 | N/A | 5.0 | 0.1 | 5.0 | 10 | 10 |
| Sulfate, SO ₄ ²⁻ | | 48.86 | 53.59 | N/A | 450 | 10 | 450 | 600 | 600 |
| Uranium, U | | 0.0025 | 1.25 | 1.25 | 0.015 | 0.01 | 0.015 | 0.03 | 0.03 |
| Physical Parameters | | | | | | | | | |
| Field pH (standard units) | | 7.84 | 7.555 - 8.217 | | N/A | 0.1 | 6 - 9 | 6 - 9 | 6 - 9 |
| Total Dissolved Solids, TDS | | 414.50 | 453.4 | N/A | 750 | 40 | 750 | 1,000 | 1,000 |
| Subsection A Organic Parameter | | | | | | | | | |
| Phenolics (total) | | 0.003 | 0.0015 | N/A | 0.00375 | 0.0025 | 0.00375 | 0.005 | 0.005 |
| Subsection C Inorganic Parameters | | | | | | | | | |
| Bicarbonate, HCO ₃ ⁻ (as CaCO ₃) | | 109 | — | — | — | 20 | — | — | — |
| Carbonate, CO ₃ ²⁻ (as CaCO ₃) | | 2.0 | — | — | — | 2.0 | — | — | — |
| Ammonia as N, NH ₃ -N | | 1.0 | — | — | — | 1.0 | — | — | — |
| Total Nitrogen, TN | | 1.0 | — | — | — | 1.0 | — | — | — |
| Total Kjeldahl Nitrogen, TKN | | 1.0 | — | — | — | 1.0 | — | — | — |
| Phosphate, PO ₄ | | 1.0 | — | — | — | 0.5 | — | — | — |
| Calcium, Ca | | 44 | — | — | — | 1.0 | — | — | — |
| Magnesium, Mg | | 5.3 | — | — | — | 1.0 | — | — | — |
| Potassium, K | | 4.7 | — | — | — | 1.0 | — | — | — |
| Sodium, Na | | 91 | — | — | — | 1.0 | — | — | — |
| Total Organic Carbon, TOC | | 11.2 | — | — | — | 1.0 | — | — | — |
| Field Temperature (°C) | | 21.1 | — | — | — | — | — | — | — |
| Field SC (µS/cm) | | 728 | — | — | — | — | — | — | — |

ATTACHMENT II.5.B

Detection Monitoring Thresholds - Inorganic Parameters and Phenolics

Sandoval County Landfill

| Well MW-7 | | Calculated BCV (2014) | Calculated UTLV (2014) | Established UTLV (2014) | Established AML (2014) | PQL (2014) | 20.9.9.20 NMAC (05/05/10) | | CAL |
|-----------------------------------|--|-----------------------------|------------------------------|-------------------------------|------------------------------|---------------|---------------------------|-------|-------|
| PARAMETER ⁽¹⁾ | | | | | | | Presumptive AML | GWPS | |
| Subsection A Inorganic Parameters | | | | | | | | | |
| Heavy Metals | | | | | | | | | |
| | Arsenic, As | 0.0064 | 0.007 | 0.007 | 0.0064 | 0.001 | 0.005 | 0.01 | 0.01 |
| | Barium, Ba | 0.060 | 0.08 | N/A | 0.5 | 0.002 | 0.5 | 1.0 | 1.0 |
| | Chromium, Cr | 0.017 | 0.028 | 0.028 | 0.025 | 0.006 | 0.025 | 0.05 | 0.05 |
| | Cobalt, Co | 0.03 | 0.015 | N/A | 0.0375 | 0.006 | 0.0375 | 0.05 | 0.05 |
| | Lead, Pb | 0.01 | 0.005 | N/A | 0.025 | 0.001 | 0.025 | 0.05 | 0.05 |
| | Zinc, Zn | 0.05 | 0.025 | N/A | 7.5 | 0.01 | 7.5 | 10 | 10 |
| Other Inorganic Chemicals | | | | | | | | | |
| | Aluminum, Al | 0.19 | 1.5 | N/A | 3.75 | 0.02 | 3.75 | 5.0 | 5.0 |
| | Chloride, Cl ⁻ | 43.43 | 48 | N/A | 187.5 | 10 | 187.5 | 250 | 250 |
| | Fluoride, F | 0.86 | 0.9776 | 0.9776 | 0.86 | 0.1 | 0.8 | 1.6 | 1.6 |
| | Iron, Fe | 0.19 | 0.31 | N/A | 0.75 | 0.1 | 0.75 | 1.0 | 1.0 |
| | Manganese, Mn | 0.074 | 0.19 | 0.19 | 0.15 | 0.00 | 0.15 | 0.2 | 0.2 |
| | Nitrate as N, NO ₃ -N | 2.6 | 3.2 | N/A | 5.0 | 0.1 | 5.0 | 10 | 10 |
| | Sulfate, SO ₄ ²⁻ | 62.07 | 84.24 | N/A | 450 | 10 | 450 | 600 | 600 |
| | Uranium, U | 0.0031 | 1.25 | 1.25 | 0.015 | 0.01 | 0.015 | 0.03 | 0.03 |
| Physical Parameters | | | | | | | | | |
| | Field pH (standard units) | 7.86 | 7.639 - 8.211 | | N/A | 0.1 | 6 - 9 | 6 - 9 | 6 - 9 |
| | Total Dissolved Solids, TDS | 322.64 | 358 | | N/A | 40 | 750 | 1,000 | 1,000 |
| Subsection A Organic Parameter | | | | | | | | | |
| | Phenolics (total) | 0.0032 | 0.0015 | N/A | 0.00375 | 0.0025 | 0.00375 | 0.005 | 0.005 |
| Subsection C Inorganic Parameters | | | | | | | | | |
| | Bicarbonate, HCO ₃ ⁻ (as CaCO ₃) | 119 | — | — | — | 20 | — | — | — |
| | Carbonate, CO ₃ ²⁻ (as CaCO ₃) | 2.0 | — | — | — | 2.0 | — | — | — |
| | Ammonia as N, NH ₃ -N | 1.0 | — | — | — | 1.0 | — | — | — |
| | Total Nitrogen, TN | 2.6 | — | — | — | 1.0 | — | — | — |
| | Total Kjeldahl Nitrogen, TKN | 1.0 | — | — | — | 1.0 | — | — | — |
| | Phosphate, PO ₄ | 1.0 | — | — | — | 0.5 | — | — | — |
| | Calcium, Ca | 37 | — | — | — | 1.0 | — | — | — |
| | Magnesium, Mg | 4.9 | — | — | — | 1.0 | — | — | — |
| | Potassium, K | 4.3 | — | — | — | 1.0 | — | — | — |
| | Sodium, Na | 61 | — | — | — | 1.0 | — | — | — |
| | Total Organic Carbon, TOC | 3.8 | — | — | — | 1.0 | — | — | — |
| | Field Temperature (°C) | 21.1 | — | — | — | — | — | — | — |
| | Field SC (µS/cm) | 512 | — | — | — | — | — | — | — |

ATTACHMENT II.5.B
Detection Monitoring Thresholds - Organic Parameters
Sandoval County Landfill

| SUBSECTION A ORGANIC PARAMETERS | | | | | |
|--|--------------------|-------|---------------------------|------|------|
| All Wells | Established AML | PQL | 20.9.9.20 NMAC (05/05/10) | | CAL |
| PARAMETER ⁽²⁾ | | | Presumptive AML | GWPS | |
| Volatile Organic Compounds (VOCs) | | | | | |
| Acetone | 19.5 | 10 | -- | -- | 19.5 |
| Acrylonitrile | 19.5 | 10 | -- | -- | 19.5 |
| Benzene | 2.5 | 1.0 | 2.5 | 5.0 | 5.0 |
| Bromochloromethane | 3.9 | 2.0 | -- | -- | 3.9 |
| Bromodichloromethane | 1.95 | 1.0 | -- | -- | 1.95 |
| Bromoform | 1.95 | 1.0 | -- | -- | 1.95 |
| Methyl bromide (Bromomethane) | 3.9 | 2.0 | -- | -- | 3.9 |
| 2-Butanone (Methyl ethyl ketone - MEK) | 19.5 | 10 | -- | -- | 19.5 |
| Carbon Disulfide | 19.5 | 10 | -- | -- | 19.5 |
| Carbon Tetrachloride | 2.5 | 1.0 | 2.5 | 5.0 | 5.0 |
| Chlorobenzene | 50 | 5.0 | 50 | 100 | 100 |
| Chloroethane (Ethyl Chloride) | 3.9 | 2.0 | -- | -- | 3.9 |
| Chloroform (Trichloromethane) | 50 | 1.0 | 50 | 100 | 100 |
| Methyl chloride (Chloromethane) | 1.95 | 1.0 | -- | -- | 1.95 |
| Dibromochloromethane | 1.95 | 1.0 | -- | -- | 1.95 |
| Methylene Bromide (Dibromomethane) | 1.95 | 1.0 | -- | -- | 1.95 |
| o-Dichlorobenzene (1,2-) | 300 | 1.0 | 300 | 600 | 600 |
| p-Dichlorobenzene (1,4-) | 37.5 | 1.0 | 37.5 | 75 | 75 |
| trans-1,4-Dichloro-2-butene | 19.5 | 10 | -- | -- | 19.5 |
| 1,1-Dichloroethane | 12.5 | 1.0 | 12.5 | 25 | 25 |
| 1,2-Dichloroethane (EDC) | 2.5 | 1.0 | 2.5 | 5.0 | 5.0 |
| 1,1-Dichloroethene (1,1-DCE) | 2.5 | 1.0 | 2.5 | 5.0 | 5.0 |
| cis-1,2-Dichloroethene (DCE) | 35 | 1.0 | 35 | 70 | 70 |
| trans-1,2-Dichloroethene (DCE) | 50 | 1.0 | 50 | 100 | 100 |
| Methylene chloride (Dichloromethane; DCM) | 2.5 | 2.5 | 2.5 | 5.0 | 5.0 |
| 1,2-Dichloropropane | 2.5 | 0.5 | 2.5 | 5.0 | 5.0 |
| cis-1,3-Dichloropropene | 1.95 | 1.0 | -- | -- | 1.95 |
| trans-1,3-Dichloropropene | 1.95 | 1.0 | -- | -- | 1.95 |
| Ethylbenzene | 350 | 1.0 | 350 | 700 | 700 |
| 2-Hexanone | 19.5 | 10 | -- | -- | 19.5 |
| Methyl iodide (Iodomethane) | 19.5 | 10 | -- | -- | 19.5 |
| 4-Methyl-2-pentanone (MIBK) | 19.5 | 10 | -- | -- | 19.5 |
| Styrene | 50 | 1 | 50 | 100 | 100 |
| 1,1,1,2-Tetrachloroethane | 1.95 | 1.0 | -- | -- | 1.95 |
| 1,1,2,2-Tetrachloroethane | 5.0 | 1.0 | 5.0 | 10 | 10 |
| Tetrachloroethene (PCE) | 2.5 | 0.5 | 2.5 | 5.0 | 5.0 |
| Toluene | 375 | 1.0 | 375 | 750 | 750 |
| 1,1,1-Trichloroethane (TCA) | 30 | 1.0 | 30 | 60 | 60 |
| 1,1,2-Trichloroethane | 2.5 | 1.0 | 2.5 | 5.0 | 5.0 |
| Trichloroethene (1,1,2-Trichloroethylene, TCE) | 2.5 | 1.0 | 2.5 | 5.0 | 5.0 |
| Trichlorofluoromethane (CFC 11) | 1.95 | 1.0 | -- | -- | 1.95 |
| 1,2,3-Trichloropropane | 1.95 | 1.0 | -- | -- | 1.95 |
| Vinyl Acetate | 19.5 | 10 | -- | -- | 19.5 |
| Vinyl Chloride | 0.5 | 0.5 | 0.5 | 1.0 | 1.0 |
| Xylenes (Total) | 310 | 2.0 | 310 | 620 | 620 |
| EDB & DBCP | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.025 | 0.010 | 0.025 | 0.05 | 0.05 |
| 1,2-Dibromoethane (EDB) | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | |
| Phenolics | 3.75 | 2.5 | 3.75 | 5.0 | 5.0 |
| Polyaromatic Hydrocarbons (PAHs) | | | | | |
| Naphthalene | 15 | 2.0 | 15 | 30 | 30 |
| 1-Methylnaphthalene | | | | | |
| 2-Methylnaphthalene | | | | | |
| Benzo(a)pyrene | 0.1 | 0.07 | 0.1 | 0.2 | 0.2 |
| Polychlorinated Biphenyls (PCBs) | | | | | |
| Arochlor 1016 | 0.25 | 0.25 | 0.25 | 0.5 | 0.5 |
| Arochlor 1221 | 0.25 | 0.25 | 0.25 | 0.5 | 0.5 |
| Arochlor 1232 | 0.25 | 0.25 | 0.25 | 0.5 | 0.5 |
| Arochlor 1242 | 0.25 | 0.25 | 0.25 | 0.5 | 0.5 |
| Arochlor 1248 | 0.25 | 0.25 | 0.25 | 0.5 | 0.5 |
| Arochlor 1254 | 0.25 | 0.25 | 0.25 | 0.5 | 0.5 |
| Arochlor 1260 | 0.25 | 0.25 | 0.25 | 0.5 | 0.5 |

**APPLICATION FOR PERMIT RENEWAL AND MODIFICATION
SANDOVAL COUNTY LANDFILL**

**VOLUME II: LANDFILL MANAGEMENT PLANS
SECTION 5: CLOSURE/POST-CLOSURE PLAN**

**ATTACHMENT II.5.C
HISTORICAL METHANE MONITORING RESULTS
(1999-2015)**

Landfill Gas Monitoring Well Field Log Sandoval County Landfill

I. General Information

Date: 6/25/99

Weather: Temp: $\approx 88^{\circ}\text{F}$ at 9:30 a.m. Wind: Speed: 5-7 mph; Direction: SSW

Temp: $\approx 99^{\circ}\text{F}$ at 12:30 p.m. Wind: Speed: 1-2 mph; Direction: W

Barometric Pressure: 29.99 in. Hg at 1:00 p.m.

Precipitation (last 24 hours): 0 inches

II. Equipment

Monitoring equipment used: Gascope[®] Combustible Gas Indicator Industrial Model 62

Date last calibrated: 6/25/99

III. Field Measurements

| Perimeter Barhole Probe I.D. | Location | Methane Concentration (% LEL) | Comments |
|---------------------------------|--------------------------------|----------------------------------|-------------------------------------|
| BH-1 | SE corner of landfill property | 0 | 24"-deep hole |
| BH-2 | 750' east of BH-1 | 0 | 24"-deep hole |
| BH-3 | 750' east of BH-2 | 0 | 18"-deep hole; 40' inside perimeter |
| BH-4 | 400' east of BH-3 | 0 | 18"- deep hole |
| BH-5 | 400' northeast of BH-4 | 0 | 18"-deep hole |
| BH-6 | 400' north of BH-5 | 0 | 18"-deep hole; 40' inside perimeter |
| BH-7 | 400' north of BH-6 | 0 | 18"-deep hole; 40' inside perimeter |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Structures | | | |
|----------------|---------------------|---|------|
| Trailer | West of active face | 0 | None |
| Tool Shack | West of trailer | 0 | None |
| Gate House | Entrance | 0 | None |
| Pesticide Shed | South of Gate House | 0 | None |
| | | | |
| | | | |
| | | | |

Recorded By: _____

Landfill Gas Monitoring Well Field Log Sandoval County Landfill

I. General Information

Date: 6/15/2000

Weather: Temp: 88°F at 10:30 a.m. Wind: Speed: 7 mph; Direction: W

Temp: °F at p.m. Wind: Speed: mph; Direction:

Barometric Pressure: in. Hg at a.m./p.m. (circle one)

Precipitation (last 24 hours): 0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 6/15/00 @ 9:30 AM

III. Field Measurements

| Permanent Landfill Gas Monitoring Wells | | | |
|--|---------------------|---------------------------------------|------------------------|
| Monitor Well ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 11:11 AM | 0 | |
| LFG-2 | 11:15 AM | 0 | |
| LFG-3 | 10:05 AM | 0 | |
| LFG-4 | 10:17 AM | 0 | |
| LFG-5 | 10:28 AM | 3 | |
| LFG-5 | 3:30 PM (6/16) | 13 | Verification Sampling |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 11:07 AM | 0 | |
| Spotter's Shed | 11:25 AM | 0 | |
| Battery Storage Shed ¹ | 10:38 AM | 0 | |
| Fleet Maint. Bldg | 11:03 AM | 0 | |
| Barhole Probes ² (if necessary) | | | |
| Barhole Probe | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| B-1 | 10:13 AM | 0 | Full probe depth (36") |
| B-2 | 10:25 AM | 0 | 24" depth |
| B-3 | 10:35 AM | 0 | 24" depth |
| B-4 | 10:42 AM | 0 | Full probe depth (36") |
| B-5 | 10:47 AM | 0 | Full probe depth (36") |
| B-6 | 10:49 AM | 0 | Full probe depth (36") |
| B-7 | 10:52 AM | 0 | Full probe depth (36") |
| B-8 | 10:57 AM | 0 | Full probe depth (36") |

Notes: (1) Battery storage shed is temporary and will be monitored quarterly until removal off-site.
(2) Map of approximate probe locations is attached.

Recorded By: _____

Signature: _____

Landfill Gas Monitoring Well Field Log Sandoval County Landfill

I. General Information

Date: 4/20/2000

Weather: Temp: 70°F at 11:00 a.m. Wind: Speed: 8 mph; Direction: NW

Temp: °F at p.m. Wind: Speed: mph; Direction:

Barometric Pressure: in. Hg at a.m./p.m. (circle one)

Precipitation (last 24 hours): 0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 4/20 @ 10:30 AM

III. Field Measurements

| Permanent Landfill Gas Monitoring Wells | | | |
|--|---------------------|---------------------------------------|------------------|
| Monitor Well ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 12:24 PM | 0 | |
| LFG-2 | 12:30 PM | 0 | |
| LFG-3 | 11:10 AM | 0 | |
| LFG-4 | 12:50 PM | 0 | |
| LFG-5 | 11:30 AM | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 10:04 PM (4/21) | 0 | |
| Spotter's Shed | 12:20 PM | 0 | |
| Battery Storage Shed ¹ | 11:38 PM | 0 | |
| Fleet Maint. BLDG | 10:10 AM (4/21) | 0 | |
| Barhole Probes ² (if necessary) | | | |
| Barhole Probe | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| B-1 | 11:17 AM | 0 | Full probe depth |
| B-2 | 11:25 AM | 0 | 24" depth |
| B-3 | 11:35 AM | 0 | Full probe depth |
| B-4 | 11:45 AM | 0 | Full probe depth |
| B-5 | 11:49 AM | 0 | 18" depth |
| B-6 | 11:52 AM | 0 | Full probe depth |
| B-7 | 12:04 PM | 0 | 24" depth |
| B-8 | 12:09 PM | 0 | Full probe depth |

Notes: (1) Battery storage shed is temporary and will be monitored quarterly until removal off-site.
(2) Attach map with approximate probe location.

Recorded By: _____

Signature: _____

Landfill Gas Monitoring Well Field Log Sandoval County Landfill

I. General Information

Date: 11/29/00

Weather: Temp: 50 °F at 11 a.m. Wind: Speed: 5 mph; Direction: S
Temp: °F at p.m. Wind: Speed: mph; Direction:

Barometric Pressure: 30.35 in. Hg at 11 a.m./p.m. (circle one)

Precipitation (last 24 hours): 0.0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 10:20 am 11/29/00

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes ⁽¹⁾ | | | |
|---|---------------------|---------------------------------------|--------------------------|
| Monitor Well ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 12:08 | 0 | |
| LFG-2 | 11:40 | 0 | |
| LFG-3 | 11:32 | 0 | |
| LFG-4 | 12:02 | 0 | |
| LFG-5 | 11:22 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 10:58 | 0 | Mike's Office & Bathroom |
| Spotter's Shed | 11:01 | 0 | |
| Gatehouse (underneath) | 11:00 | 0 | Rabbit Hole |
| Filter Room | 11:10 | 0 | |
| Outhouse | 11:02 | 0 | |
| Outhouse North | 11:15 | 0 | |
| Pesticide Shed | 11:04 | 0 | |
| Barhole Probes (if necessary) | | | |
| Barhole Probe | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| B-1 | 12:54 | 0 | |
| B-2 | 12:50 | 85% | LFG odor is evident |
| B-3 | 12:34 | 0 | |
| B-4 | 12:38 | 0 | |
| B-5 | 12:35 | 0 | |
| B-6 | 12:32 | 0 | |
| B-7 | 12:27 | 0 | |
| B-8 | 12:24 | 0 | |
| B-9 | 12:15 | 0 | |

Notes: ⁽¹⁾ Map of approximate probe locations is attached.

Recorded By: _____

Signature: _____

Landfill Gas Monitoring Probe Field Log Sandoval County Landfill

I. General Information

Date: 12/29/00

Weather: Sunny Temp: 40 °F at 14:00 Wind: S Speed: 10 mph;

Barometric Pressure: _____ in. Hg at _____ a.m./p.m. (circle one)

Precipitation (last 24 hours): 0.0 inches

II. Equipment

Monitoring equipment used: Land GEM 500™

Date and time last calibrated: 12/29/00 @ 13:00

III. Field Measurements

| LFG-1 | Time Started: 14:35 | | | LFG-2 | Time Started: 14:25 | | |
|-------------------|----------------------|---------|---------|-------------------|----------------------|---------|---------|
| | Measurement Duration | | | | Measurement Duration | | |
| LFG Constituent | 100 sec | 200 sec | 300 sec | LFG Constituent | 100 sec | 200 sec | 300 sec |
| % CH ₄ | 0.0 | 0.0 | 0.0 | % CH ₄ | 0.0 | 0.0 | 0.0 |
| % CO ₂ | 0.1 | 0.2 | 0.2 | % CO ₂ | 0.2 | 0.2 | 0.2 |
| % O ₂ | 19.4 | 19.4 | 19.4 | % O ₂ | 19.4 | 19.4 | 19.4 |
| % Balance | 80.5 | 80.4 | 80.4 | % Balance | 80.4 | 80.4 | 80.4 |

| LFG-3 | Time Started: 13:08 | | | LFG-4 | Time Started: 13:55 | | |
|-------------------|----------------------|---------|---------|-------------------|----------------------|---------|---------|
| | Measurement Duration | | | | Measurement Duration | | |
| LFG Constituent | 100 sec | 200 sec | 300 sec | LFG Constituent | 100 sec | 200 sec | 300 sec |
| % CH ₄ | 0.0 | 0.0 | 0.0 | % CH ₄ | 0.0 | 0.0 | 0.0 |
| % CO ₂ | 1.5 | 1.5 | 1.5 | % CO ₂ | 0.1 | 0.1 | 0.2 |
| % O ₂ | 17.5 | 17.8 | 17.8 | % O ₂ | 19.3 | 19.4 | 19.4 |
| % Balance | 80.8 | 80.7 | 80.7 | % Balance | 80.6 | 80.5 | 80.5 |

| LFG- 5 | Time Started: 15:03 | | | LFG-6 | Time Started: 14:15 | | |
|-------------------|----------------------|---------|---------|-------------------|----------------------|---------|---------|
| | Measurement Duration | | | | Measurement Duration | | |
| LFG Constituent | 100 sec | 200 sec | 300 sec | LFG Constituent | 100 sec | 200 sec | 300 sec |
| % CH ₄ | 0.0 | 0.0 | 0.0 | % CH ₄ | 0.0 | 0.0 | 0.0 |
| % CO ₂ | 4.9 | 5.0 | 5.0 | % CO ₂ | 0.4 | 0.4 | 0.4 |
| % O ₂ | 15.3 | 15.3 | 15.3 | % O ₂ | 18.8 | 18.8 | 18.8 |
| % Balance | 79.8 | 79.7 | 79.7 | % Balance | 80.8 | 80.8 | 80.8 |

Landfill Gas Monitoring Probe Field Log Sandoval County Landfill

I. General Information

Date: 12/29/00

Weather: Sunny Temp: 40 ____°F at 14:00 Wind: S Speed: 10 mph;

Barometric Pressure: ____ in. Hg at ____ a.m./p.m. (circle one)

Precipitation (last 24 hours): 0.0 ____ inches

II. Equipment

Monitoring equipment used: Land GEM 500™

Date and time last calibrated: 12/29/00 @ 13:00

III. Field Measurements

| LFG-7 | Time Started: 14:05 | | | LFG-8 | Time Started: 13:45 | | |
|-------------------|----------------------|---------|---------|-------------------|----------------------|---------|---------|
| | Measurement Duration | | | | Measurement Duration | | |
| LFG Constituent | 100 sec | 200 sec | 300 sec | LFG Constituent | 100 sec | 200 sec | 300 sec |
| % CH ₄ | 0.2 | 0.2 | 0.2 | % CH ₄ | 0.6 | 0.6 | 0.6 |
| % CO ₂ | 1.7 | 2.1 | 2.3 | % CO ₂ | 1.5 | 1.5 | 1.5 |
| % O ₂ | 17.1 | 17.0 | 17.0 | % O ₂ | 18.2 | 18.2 | 18.2 |
| % Balance | 81.0 | 80.7 | 80.5 | % Balance | 79.7 | 79.7 | 79.7 |

| LFG-9 | Time Started: 14:50 | | | LFG-10 | Time Started: 14:45 | | |
|-------------------|----------------------|---------|---------|-------------------|----------------------|---------|---------|
| | Measurement Duration | | | | Measurement Duration | | |
| LFG Constituent | 100 sec | 200 sec | 300 sec | LFG Constituent | 100 sec | 200 sec | 300 sec |
| % CH ₄ | 0.2 | 0.2 | 0.2 | % CH ₄ | 0.0 | 0.0 | 0.0 |
| % CO ₂ | 10.0 | 10.0 | 10.0 | % CO ₂ | 0.1 | 0.1 | 0.1 |
| % O ₂ | 10.9 | 10.5 | 10.5 | % O ₂ | 19.4 | 19.4 | 19.4 |
| % Balance | 79.3 | 79.3 | 79.3 | % Balance | 80.5 | 80.5 | 80.5 |

Recorded By: Rodrigo L. Eichwald

Signature: _____

Landfill Gas Monitoring Probe Field Log Sandoval County Landfill

I. General Information

Date: 12/29/00

Weather: Temp: 45 °F at _____ a.m. Wind: Speed: 5 mph; Direction: S

Temp: _____ °F at _____ p.m. Wind: Speed: _____ mph; Direction: _____

Barometric Pressure: _____ in. Hg at _____ a.m./p.m. (circle one)

Precipitation (last 24 hours): _____ inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 12/29/00 @ 10:30 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes ⁽¹⁾ | | | |
|---|---------------------|---------------------------------------|----------|
| Monitor Well ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | | | |
| LFG-2 | | | |
| LFG-3 | | | |
| LFG-4 | | | |
| LFG-5 | | | |
| LFG-5 | | | |
| LFG-6 | | | |
| LFG-7 | | | |
| LFG-8 | | | |
| LFG-9 | | | |
| LFG-10 | | | |

| Landfill Structures | | | |
|------------------------|---------------------|---------------------------------------|----------|
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 3:10 | 0 | |
| Spotter's Shed | 3:14 | 0 | |
| Gatehouse (underneath) | 3:11 | 0 | |
| Filter Room | 3:16 | 0 | |
| Outhouse | 3:09 | 0 | |
| Outhouse North | 3:18 | 0 | |
| Pesticide Shed | 3:20 | 0 | |

| Barhole Probes (if necessary) | | | |
|-------------------------------|---------------------|---------------------------------------|----------|
| Barhole Probe | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| B-1 | | | |
| B-2 | | | |
| B-3 | | | |
| B-4 | | | |

Notes: ⁽¹⁾ Map of approximate probe locations is attached.

Recorded By: Stefan P. Solomon

Signature: _____

Landfill Gas Monitoring Probe Field Log Sandoval County Landfill

I. General Information

Date: 04/30/01

Weather: Temp: 80°F at 2:30 p.m. Wind: Speed: 10 mph; Direction: S

Barometric Pressure: 29.97 in. Hg at 2:00 p.m.

Precipitation (last 24 hours): 0.0 inches

II. Equipment

Monitoring equipment used: Landtec® GEM 500 Portable Landfill Gas Analyzer

Date and time last calibrated: 04/30/01 @ 2:15 p.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes ⁽¹⁾ | | | |
|---|---------------------|---------------------------------------|----------|
| Monitor Well ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 14:55 | 0.0 | |
| LFG-2 | 14:45 | 0.0 | |
| LFG-3 | 15:50 | 0.0 | |
| LFG-4 | 15:10 | 0.0 | |
| LFG-5 | 15:05 | 0.0 | |
| LFG-6 | 14:50 | 0.0 | |
| LFG-7 | 15:45 | 0.0 | |
| LFG-8 | 15:40 | 0.0 | |
| LFG-9 | 15:05 | 4.0 | |
| LFG-10 | 15:00 | 0.0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 15:15 | 0.0 | |
| Spotter's Shed | 15:20 | 0.0 | |
| Gatehouse (underneath) | 15:17 | 0.0 | |
| Filter Room | 15:23 | 0.0 | |
| Outhouse | 15:25 | 0.0 | |
| Pesticide Shed | 15:35 | 0.0 | |

Notes: ⁽¹⁾ Map of approximate probe locations is attached.

Recorded By: Stefan P. Solomon

Signature: _____

Landfill Gas Monitoring Field Log Sandoval County Landfill

I. General Information

Date: 06/12/01

Weather: Temp: 93°F at 3:00 p.m. Wind: Speed: 18 mph; Direction: W

Barometric Pressure: 29.78 in. Hg at 3:00 p.m.

Precipitation (last 24 hours): 0.0 inches

II. Equipment

Monitoring equipment used: Landtec® GEM-500 Portable Landfill Gas Analyzer

Date and time last calibrated: 06/12/01 @ 2:15 p.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes ⁽¹⁾ | | | |
|---|---------------------|---|----------|
| Monitor Well ID | Time of Measurement | CH ₄ Concentration (% Total) | Comments |
| LFG-1 | 15:30 | 0.0 | |
| LFG-2 | 15:25 | 0.0 | |
| LFG-3 | 15:15 | 0.0 | |
| LFG-4 | 16:20 | 0.2 | |
| LFG-5 | 15:10 | 0.5 | |
| LFG-6 | 15:20 | 0.0 | |
| LFG-7 | 16:15 | 0.3 | |
| LFG-8 | 16:25 | 0.7 | |
| LFG-9 | 15:05 | 1.0 | |
| LFG-10 | 14:55 | 0.0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% Total) | Comments |
| Gatehouse (inside) | 15:35 | 0.0 | |
| Spotter's Shed | 15:40 | 0.0 | |
| Gatehouse (underneath) | 15:45 | 0.0 | |
| Filter Room | 16:00 | 0.0 | |
| Outhouse | 15:55 | 0.0 | |
| Pesticide Shed | 15:50 | 0.0 | |

Notes: ⁽¹⁾ Map of approximate probe locations is attached.

Recorded By: Stefan P. Solomon

Signature: _____

Landfill Gas Monitoring Probe Field Log Sandoval County Landfill

I. General Information

Date: 08/30/01

Weather: Temp: 73 °F at 11:56 a.m. Wind: Speed: 3 mph; Direction: SW

Barometric Pressure: 30.09 in. Hg at 11:56 a.m.

Precipitation (last 24 hours): 0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 8/30/01 @ 8:45 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes ⁽¹⁾ | | | |
|---|---------------------|---------------------------------------|----------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 10:26 | 0 | |
| LFG-2 | 10:31 | 0 | |
| LFG-3 | 10:42 | 0 | |
| LFG-4 | 11:10 | 0 | |
| LFG-5 | 10:47 | 2 | |
| LFG-6 | 10:35 | 0 | |
| LFG-7 | 11:15 | 0 | |
| LFG-8 | 11:05 | 0 | |
| LFG-9 | 10:51 | 0 | |
| LFG-10 | 10:56 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 10:12 | 0 | |
| Gatehouse (underneath) | 10:13 | 0 | |
| Spotter's Shed | 10:15 | 0 | |
| Outhouse | 10:19 | 0 | |
| Pesticide Shed | 10:17 | 0 | |

Notes: ⁽¹⁾ Map of approximate probe locations is attached.

Recorded By: Rodrigo L. Eichwald

Signature: _____

Landfill Gas Monitoring Probe Field Log Sandoval County Landfill

I. General Information

Date: 10/25/01

Weather: Temp: 70 °F at 11:00 a.m. Wind: Speed: 5 mph; Direction: N

Barometric Pressure: 30.42 in. Hg at 7:56 a.m.

Precipitation (last 24 hours): 0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 10/25/01 @ 9:45 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes ⁽¹⁾ | | | |
|---|---------------------|---------------------------------------|----------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 11:20 | 0 | |
| LFG-2 | 11:24 | 0 | |
| LFG-3 | 11:30 | 0 | |
| LFG-4 | 12:02 | 0 | |
| LFG-5 | 11:35 | 0 | |
| LFG-6 | 11:29 | 0 | |
| LFG-7 | 12:05 | 0 | No quick connect adapter on well |
| LFG-8 | 11:59 | 0 | No quick connect adapter on well |
| LFG-9 | 11:38 | 0 | |
| LFG-10 | 11:45 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 11:01 | 0 | |
| Gatehouse (underneath) | 11:00 | 0 | |
| Spotter's Shed | 11:10 | 0 | |
| Outhouse | 11:14 | 0 | |
| Pesticide Shed | 10:12 | 0 | |

Notes: ⁽¹⁾ Map of approximate probe locations is attached.

Recorded By: Rodrigo L. Eichwald

Signature: _____

Landfill Gas Monitoring Probe Field Log Sandoval County Landfill

I. General Information

Date: 01/10/02

Weather: Temp: 37 °F at 10:43 a.m. Wind: Speed: 25 mph; Direction: E

Barometric Pressure: 30.20 in. Hg at 10:43 a.m.

Precipitation (last 24 hours): 0.33 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 01/10/02 @ 8:45 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes ⁽¹⁾ | | | |
|---|---------------------|---------------------------------------|----------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 10:42 | 0 | |
| LFG-2 | 10:36 | 0 | |
| LFG-3 | 10:27 | 0 | |
| LFG-4 | 11:43 | 0 | |
| LFG-5 | 10:21 | 5 | |
| LFG-6 | 10:31 | 0 | |
| LFG-7 | 11:40 | 0 | |
| LFG-8 | 11:45 | 3 | |
| LFG-9 | 10:15 | 0 | |
| LFG-10 | 11:00 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 10:45 | 0 | |
| Gatehouse (underneath) | 10:47 | 0 | |
| Spotter's Shed | 10:48 | 0 | |
| Outhouse | 10:53 | 0 | |
| Pesticide Shed | 10:49 | 0 | |

Notes: ⁽¹⁾ Map of approximate probe locations is attached.

Recorded By: Rodrigo L. Eichwald

Signature: _____

Landfill Gas Monitoring Probe Field Log Sandoval County Landfill

I. General Information

Date: April 3, 2002

Weather: Temp: 52 °F at 10:30 a.m. Wind: Speed: 0 mph

Temp: 63 °F at 2:00 p.m. Wind: Speed: 0 - 3 mph; Direction: W-NW

Barometric Pressure: 30.08 inches of Hg at 10:30 a.m.

Precipitation (last 24 hours): 0.00 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: April 3, 2002; 10:00 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes ⁽¹⁾ | | | |
|---|---------------------|---------------------------------------|----------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 11:30 | 0 | |
| LFG-2 | 11:25 | 0 | |
| LFG-3 | 11:42 | 0 | |
| LFG-4 | 12:12 | 0 | |
| LFG-5 | 11:45 | 0 | |
| LFG-6 | 11:41 | 0 | |
| LFG-7 | 12:20 | 0 | |
| LFG-8 | 12:15 | 0 | |
| LFG-9 | 11:48 | 0 | |
| LFG-10 | 11:51 | 0 | |
| LFG-11 | 12:09 | 0 | |
| LFG-12 | 12:04 | 0 | |
| LFG-13 | 12:01 | 0 | |
| LFG-14 | 11:58 | 0 | |
| LFG-15 | 11:56 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 11:23 | 0 | |
| Gatehouse (underneath) | 11:20 | 0 | |
| Spotter's Shed | 11:22 | 0 | |
| Filter Room | 11:26 | 0 | |
| Outhouse | 11:27 | 0 | |
| Pesticide Shed | 11:25 | 0 | |

Notes: ⁽¹⁾ Map of approximate probe locations is attached.

Recorded By: Rodrigo Eichwald

Signature: _____

Landfill Gas Monitoring Probe Field Log

Sandoval County Landfill

July 2002

July 3, 2002

Weather Information

Precipitation (last 24 hours): 0.00 inches
 Temp: 88 °F at 11:00 a.m.
 Wind Speed: calm
 Wind Direction: N/A
 Barometric Pressure: 30.03" Hg at 11:30 a.m.
 Temp: 100 °F at 2:00 p.m.
 Wind Speed: 3 mph
 Wind Direction: W

Equipment

Monitoring equipment used: Gascope® 62
 Calibration Date: July 3, 2002
 Calibration Time(s): 9:00 a.m. and 1:45 p.m.

Field Measurements

| Permanent Landfill Gas Monitoring Probes | | |
|--|---------------------|---------------------------------------|
| Monitoring Probe I.D. | Time of Measurement | CH ₄ Concentration (% LEL) |
| LFG-1 | 11:57 a.m. | 0.0 |
| LFG-2 | 12:03 p.m. | 0.0 |
| LFG-3 | 12:19 p.m. | 0.0 |
| LFG-4 | 12:37 p.m. | 0.0 |
| LFG-5 | 12:26 p.m. | 1.0 |
| LFG-6 | 12:13 p.m. | 0.0 |
| LFG-7 | 12:42 p.m. | 0.0 |
| LFG-8 | 3:00 p.m. | 0.0 |
| LFG-9 | 2:09 p.m. | 0.0 |
| LFG-10 | 2:20 p.m. | 0.0 |
| LFG-11 | 2:00 p.m. | 0.0 |
| LFG-12 | 2:39 p.m. | 0.0 |
| LFG-13 | 2:43 p.m. | 0.0 |
| LFG-14 | 2:48 p.m. | 0.0 |
| LFG-15 | 2:59 p.m. | 0.0 |
| On-Site Structures | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) |
| Gate House (inside) | 11:30 a.m. | 0.0 |
| Gate House (outside) | 11:34 a.m. | 0.0 |
| Old Spotter's Shed | 11:39 a.m. | 0.0 |
| New Spotter's | 11:41 a.m. | 0.0 |
| Filter Room | 11:49 a.m. | 0.0 |
| Outhouse | 11:42 a.m. | 0.0 |
| Pesticide Shed | 11:50 a.m. | 0.0 |

July 15, 2002

Weather Information

Precipitation (last 24 hours): 0.00 inches
 Temp: 93 °F at 2:00 p.m.
 Wind Speed: calm
 Wind Direction: N/A
 Barometric Pressure: 30.00" Hg at 2:30 p.m.

Equipment

Monitoring equipment used: Gascope® 62
 Calibration Date: July 15, 2002
 Calibration Time(s): 2:00 p.m.

Field Measurements

| Permanent Landfill Gas Monitoring Probes | | |
|--|---------------------|---------------------------------------|
| Monitoring Probe I.D. | Time of Measurement | CH ₄ Concentration (% LEL) |
| LFG-1 | NM | N/A |
| LFG-2 | NM | N/A |
| LFG-3 | NM | N/A |
| LFG-4 | 2:12 p.m. | 0.0 |
| LFG-5 | 2:29 p.m. | 2.0 |
| LFG-6 | NM | N/A |
| LFG-7 | 2:20 p.m. | 0.0 |
| LFG-8 | 2:05 p.m. | 1.0 |
| LFG-9 | 2:36 p.m. | 0.0 |
| LFG-10 | NM | N/A |
| LFG-11 | NM | N/A |
| LFG-12 | NM | N/A |
| LFG-13 | NM | N/A |
| LFG-14 | NM | N/A |
| LFG-15 | NM | N/A |
| On-Site Structures | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) |
| Gate House (inside) | NM | N/A |
| Gate House (outside) | NM | N/A |
| Old Spotter's Shed | NM | N/A |
| New Spotter's | NM | N/A |
| Filter Room | NM | N/A |
| Outhouse | NM | N/A |
| Pesticide Shed | NM | N/A |

NM = Not Measured

N/A = Not Applicable

Landfill Gas Monitoring Probe Field Log Sandoval County Landfill

I. General Information

Date: 10/24/02

Weather: Temp: 60 °F at 10:00 a.m. Wind: Speed: 1 mph; Direction: NW

Temp: 69 °F at 1:30 p.m. Wind: Speed: 5 mph; Direction: SW

Barometric Pressure: 30.01 (F) in. Hg at 1:30 p.m.

Precipitation (last 24 hours): 0.2 inches

II. Equipment

Monitoring equipment used: CES Landtec GEM-500

Date and time last calibrated: October 24, 2:00 p.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes ⁽¹⁾ | | | |
|---|---------------------|---------------------------------------|--|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 2:53 | 0 | Yellow Brinks lock unlocked, left as found |
| LFG-2 | 3:54 | 0 | |
| LFG-3 | 3:06 | 0 | |
| LFG-4 | 2:24 | 0 | |
| LFG-5 | 3:11 | 2 | |
| LFG-6 | 3:01 | 0 | |
| LFG-7 | 2:18 | 0 | |
| LFG-8 | 2:30 | 2 | |
| LFG-9A | 3:17 | 0 | |
| LFG-10 | 3:24 | 0 | |
| LFG-11 | 3:46 | 0 | |
| LFG-12 | 3:29 | 0 | |
| LFG-13 | 3:32 | 0 | |
| LFG-14 | 3:36 | 0 | |
| LFG-15 | 3:41 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 2:39 | 0 | |
| Gatehouse (underneath) | 2:42 | 0 | |
| Spotter's Shed | 2:44 | 0 | |
| Filter Room | 2:48 | 0 | |
| Outhouse | 2:46 | 0 | |
| Pesticide Shed | 2:49 | 0 | |

Note: ⁽¹⁾ Map of approximate probe locations is attached.

Recorded By: Sarah Fretz

Signature: _____

Landfill Gas Monitoring Probe Field Log Sandoval County Landfill

I. General Information

Date: 1/15/03

Weather: Temp: 36 °F at 8:00 a.m. Wind: Speed: 5.8 mph; Direction: S
Temp: 55 °F at 4:00 p.m. Wind: Speed: 24.2 mph; Direction: SW

Barometric Pressure: 30.18 (F) in. Hg at 1:30 p.m.

Precipitation (last 24 hours): 0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: January 15, 2003 at 3:20 p.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes ⁽¹⁾ | | | |
|---|---------------------|---------------------------------------|----------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 15:42 | 0 | |
| LFG-2 | 16:34 | 0 | |
| LFG-3 | 15:53 | 0 | |
| LFG-4 | 16:50 | 1 | |
| LFG-5 | 15:59 | 2 | |
| LFG-6 | 15:49 | 0 | |
| LFG-7 | 16:47 | 0 | |
| LFG-8 | 16:43 | 4 | |
| LFG-9A | 16:03 | 0 | |
| LFG-10 | 16:10 | 0 | |
| LFG-11 | 15:39 | 0 | |
| LFG-12 | 16:16 | 0 | |
| LFG-13 | 16:23 | 0 | |
| LFG-14 | 16:25 | 0 | |
| LFG-15 | 16:29 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 15:28 | 0 | |
| Gatehouse (underneath) | 15:24 | 0 | |
| Spotter's Shed | 15:30 | 0 | |
| Filter Room | 15:33 | 0 | |
| Outhouse | 15:32 | 0 | |
| Pesticide Shed | 15:35 | 0 | |

Note: ⁽¹⁾ Map of approximate probe locations is attached.

Recorded By: Venus Valerio- Hirschfeld

Signature: _____

Landfill Gas Monitoring Field Log Sandoval County Landfill

I. General Information

Date: April 21, 2003

Weather: Temp: 70 °F at 2:00 p.m. Wind: Speed: 18.5 mph; Direction: W

Barometric Pressure: 29.98 (F) in. Hg at 2:00 p.m.

Precipitation (last 24 hours): 0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: April 21, 2003 at 12:20 p.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes ⁽¹⁾ | | | |
|---|---------------------|---------------------------------------|---|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 12:54 | 0 | Yellow padlock found unlocked |
| LFG-2 | 1:12 | 0 | |
| LFG-3 | 1:05 | 0 | |
| LFG-4 | 2:30 | 0 | |
| LFG-5 | 3:13 | 0 | |
| LFG-6 | 12:59 | 0 | |
| LFG-7 | 2:36 | 0 | |
| LFG-8 | 2:25 | 0 | |
| LFG-9A | 1:20 | 0 | |
| LFG-10 | 1:40 | 0 | |
| LFG-11 | 2:04 | 0 | |
| LFG-12 | 1:45 | 0 | Road between LFG-12 and 13 no longer exists |
| LFG-13 | 1:47 | 0 | Generator running nearby |
| LFG-14 | 1:54 | 0 | |
| LFG-15 | 1:57 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 12:39 | 0 | Vent on, air forced out of structure |
| Gatehouse (underneath) | 12:41 | 0 | |
| Spotter's Shed | 12:43 | 0 | |
| Filter Room | 12:47 | 0 | |
| Outhouse | 12:46 | 0 | |
| Pesticide Shed | 12:48 | 0 | |

Note: ⁽¹⁾ Map of approximate probe locations is attached.

Recorded By: Sarah Fretz

Signature: _____

Landfill Gas Monitoring Field Log Sandoval County Landfill

I. General Information

Date: July 30, 2003

Weather: Temp: 79 °F at 11:00 a.m. Wind: Speed: 15-20 mph; Direction: SE

Barometric Pressure: 30.29 in. Hg at 11:00 a.m.

Precipitation (last 24 hours): Trace inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: July 30, 2003 at 11:00 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes ⁽¹⁾ | | | |
|---|---------------------|---------------------------------------|------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 11:42 | 0 | Yellow padlock left unlocked |
| LFG-2 | 11:50 | 0 | |
| LFG-3 | 11:58 | 0 | |
| LFG-4 | 13:14 | 0 | |
| LFG-5 | 12:07 | 1 | |
| LFG-6 | 11:54 | 0 | |
| LFG-7 | 13:19 | 0 | |
| LFG-8 | 13:07 | 2 | |
| LFG-9A | 12:20 | 0 | |
| LFG-10 | 12:27 | 0 | |
| LFG-11 | 12:59 | 0 | |
| LFG-12 | 12:36 | 0 | |
| LFG-13 | 12:52 | 0 | |
| LFG-14 | 12:46 | 0 | |
| LFG-15 | 12:41 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (inside) | 11:15 | 0 | A/C on |
| Gatehouse (underneath) | 11:24 | 0 | |
| Spotter's Shed | 11:28 | 0 | |
| Filter Room | 11:33 | 0 | |
| Outhouse | 11:31 | 0 | |
| Pesticide Shed | 11:35 | 0 | |

Note: ⁽¹⁾ Map of approximate probe locations is attached.

Recorded By: Dan Tschopp and Sarah Fretz

Signature(s): _____

Landfill Gas Monitoring Field Log Sandoval County Landfill

I. General Information

Date: October 1, 2003

Weather: Temp: 73 °F at 10:30 a.m. Wind: Speed: 5 mph; Direction: WSW

Barometric Pressure: 30.35 in. Hg at 10:30 a.m.

Precipitation (last 24 hours): 0.0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: October 1, 2003 @ 8:45am and 10:25am

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|---------------------|---------------------------------------|------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 9:56 | 0 | Yellow padlock left unlocked |
| LFG-2 | 10:04 | 0 | |
| LFG-3 | 10:14 | 0 | |
| LFG-4 | 11:36 | 2 | |
| LFG-5 | 10:22 | 0 | |
| LFG-6 | 10:10 | 0 | |
| LFG-7 | 11:42 | 0 | |
| LFG-8 | 11:30 | 2 | |
| LFG-9A | 10:44 | 0 | |
| LFG-10 | 10:54 | 0 | |
| LFG-11 | 9:46 | 0 | |
| LFG-12 | 11:05 | 0 | |
| LFG-13 | 11:11 | 0 | |
| LFG-14 | 11:17 | 1 | |
| LFG-15 | 11:22 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (ticket office) | 9:31 | 0 | |
| Gatehouse (Mike Foster's office) | 9:35 | 0 | |
| Gatehouse (underneath North end) | 9:36 | 0 | |
| Gatehouse (underneath East side) | 9:39 | 0 | |
| Gray Spotter's Shed | 9:41 | 0 | |
| Tan Spotter's Shed | 9:42 | 0 | |
| Filter Room | 9:49 | 0 | |
| Outhouse | 9:44 | 0 | |
| Pesticide Shed | 9:51 | 0 | |

Recorded By: Sarah Fretz and Andy Yuhas

Signature(s): _____

Landfill Gas Monitoring Field Log Sandoval County Landfill

I. General Information

Date: 1/28/04

Weather: Sunny, Clear Temp: 45 °F at 3 p.m. Wind: Speed: 5 mph; Direction: SW

Barometric Pressure: 30.02 in. Hg at 3 p.m.

Precipitation (last 24 hours): 0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 1/28/04, 11:00 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|---------------------|---------------------------------------|------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 13:34 | 0 | Yellow padlock left unlocked |
| LFG-2 | 14:13 | 0 | |
| LFG-3 | 14:24 | 0 | |
| LFG-4 | 14:44 | 2 | |
| LFG-5 | 14:29 | 0 | |
| LFG-6 | 14:20 | 0 | |
| LFG-7 | 14:41 | 0 | |
| LFG-8 | 14:48 | 3 | |
| LFG-9A | 15:10 | 0 | |
| LFG-10 | 14:04 | 0 | |
| LFG-11 | 13:39 | 0 | |
| LFG-12 | 15:05 | 0 | |
| LFG-13 | 15:01 | 0 | |
| LFG-14 | 14:58 | 0 | |
| LFG-15 | 14:54 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (ticket office) | 13:18 | 0 | |
| Gatehouse (Mike Foster's office) | 13:20 | 0 | |
| Gatehouse (underneath North end) | 13:22 | 0 | |
| Gatehouse (underneath East side) | 13:23 | 0 | |
| Gray Spotter's Shed | 13:24 | 0 | |
| Tan Spotter's Shed | 13:26 | 0 | |
| Filter Room | 13:28 | 0 | |
| Outhouse | 13:27 | 0 | |
| Pesticide Shed | 13:29 | 0 | |

Recorded By: Sarah Fretz

Signature(s): _____

Landfill Gas Monitoring Field Log Sandoval County Landfill

I. General Information

Date: Thursday, April 08, 2004

Weather: Mostly cloudy Temp: 52 °F Wind: Speed: 12 mph; Direction: SSW

Barometric Pressure: 29.96

Precipitation (last 24 hours): 0.1 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 4/08/04, 2:00 p.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|---|---------------------------------------|----------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 15:07 | 0 | Yellow Brinks lock left unlocked |
| LFG-2 | 16:17 | 0 | |
| LFG-3 | 15:26 | 0 | |
| LFG-4 | 13:27 | 2 | |
| LFG-5 | 15:32 | 2 | |
| LFG-6 | 15:21 | 0 | |
| LFG-7 | 16:22 | 0 | |
| LFG-8 | 16:30 | 2 | |
| LFG-9A | 15:40 | 0 | |
| LFG-10 | Gas probe LFG-10 has been decommissioned for Unit III construction. | | |
| LFG-11 | 15:16 | 0 | |
| LFG-12 | 16:00 | 0 | |
| LFG-13 | 15:57 | 0 | |
| LFG-14 | 15:53 | 0 | |
| LFG-15 | 15:50 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (ticket office) | 14:40 | 0 | |
| Gatehouse (Mike Foster's office) | 14:42 | 0 | |
| Gatehouse (underneath North end) | 14:43 | 0 | |
| Gatehouse (underneath East side) | 14:44 | 0 | |
| Gray Spotter's Shed | 14:46 | 0 | |
| Tan Spotter's Shed | 14:47 | 0 | |
| Filter Room | 15:02 | 0 | |
| Outhouse | 15:00 | 0 | |
| Pesticide Shed | 15:04 | 0 | |

Recorded By: Sarah Fretz

Signature(s): _____

Landfill Gas Monitoring Field Log Sandoval County Landfill

I. General Information

Date: 7/14/04

Weather: Sunny Temp: 90 °F

Wind: Speed: 5-10 mph; Direction: SE

Barometric Pressure: 30.09"

Precipitation (last 24 hours): 0.0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 7/14/04, 11:20 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|---|---------------------------------------|---|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 11:45 | 0 | Yellow Brinks lock left unlocked |
| LFG-2 | 11:57 | 0 | |
| LFG-3 | 12:05 | 0 | |
| LFG-4 | 13:23 | 0 | |
| LFG-5 | 12:09 | 0 | |
| LFG-6 | 12:00 | 0 | |
| LFG-7 | 13:20 | 0 | |
| LFG-8 | 13:27 | 0 | |
| LFG-9A | 12:14 | 0 | |
| LFG-10 | Gas probe LFG-10 has been decommissioned for Unit III construction. | | |
| LFG-11 | 11:50 | 0 | |
| LFG-12 | 12:52 | 0 | |
| LFG-13 | 12:49 | 0 | |
| LFG-14 | 12:44 | 0 | |
| LFG-15 | 12:30 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (ticket office) | 11:26 | 0 | |
| Gatehouse (Mike Foster's office) | 11:28 | 0 | |
| Gatehouse (underneath North end) | 11:25 | 0 | |
| Gatehouse (underneath East side) | 11:23 | 0 | |
| Gray Spotter's Shed | 11:30 | 0 | |
| Tan Spotter's Shed | 11:32 | 0 | |
| Filter Room | 11:39 | 0 | |
| Outhouse | 11:37 | 0 | |
| Pesticide Shed | 11:40 | 0 | |
| Admin. Office | (7/19/04) 9:40 | 0 | Building locked on 7/14, returned 7/19. |
| Roads & Fleet Bldg. | 12:29 | 0 | |
| Fire & Rescue Bldg. | 12:38 | 0 | |
| Storage Shed | 12:57 | 0 | |

Recorded By: Sarah Fretz, Mark Kelly

Signature(s): _____

Landfill Gas Monitoring Field Log Sandoval County Landfill

I. General Information

Date: Wednesday, October 06, 2004

Weather: Fair, scattered clouds Temp: 60°F Wind: Speed: 3 mph; Direction: NW

Barometric Pressure: 30.06" (S)

Precipitation (last 24 hours): 0.4 inches (hail, rain)

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 10/06/04 8:45 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|--|---------------------------------------|----------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 9:34 | 0 | Yellow Brinks lock left unlocked |
| LFG-2 | 9:52 | 0 | |
| LFG-3 | 9:44 | 0 | |
| LFG-4 | 11:45 | 1 | |
| LFG-5 | 10:17 | 2 | |
| LFG-6 | 10:02 | 0 | |
| LFG-7 | 11:40 | 0 | |
| LFG-8 | 11:49 | 2 | |
| LFG-9A | 10:28 | 0 | |
| LFG-10 | Gas probe LFG-10 has been decommissioned for Unit III construction | | |
| LFG-11 | 11:01 | 0 | |
| LFG-12 | 10:52 | 0 | |
| LFG-13 | 11:08 | 0 | |
| LFG-14 | 11:28 | 0 | |
| LFG-15 | 11:12 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (ticket office) | 9:19 | 0 | |
| Gatehouse (Mike Foster's office) | 9:20 | 0 | |
| Gatehouse (underneath North end) | 9:22 | 0 | |
| Gatehouse (underneath East side) | 9:17 | 0 | |
| Gray Spotter's Shed | 9:23 | 0 | |
| Tan Spotter's Shed | 9:24 | 0 | |
| Filter Room | 9:28 | 0 | |
| Outhouse | 9:26 | 0 | |
| Storage Shed (formerly Pesticide Shed) | 9:29 | 0 | |
| Admin. Office | 11:14 | 0 | |
| Roads & Fleet Bldg. | 11:22 | 0 | |
| Fire & Rescue Bldg. | 11:11 | 0 | |
| North Storage Shed | 11:16 | 0 | |

Recorded By: Sarah Fretz

Signature(s): _____

Landfill Gas Monitoring Field Log Sandoval County Landfill

I. General Information

Date: Thursday, January 13, 2005

Weather: Cold, clear Temp: 35°F

Wind: Speed: 10 mph; Direction: NW

Barometric Pressure: 30.23" (S)

Precipitation (last 24 hours): 0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 1/13/05 8:30 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|--|---------------------------------------|----------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 9:39 | 0 | Yellow Brinks lock left unlocked |
| LFG-2 | 10:29 | 0 | |
| LFG-3 | 10:38 | 0 | |
| LFG-4 | 10:54 | 0 | |
| LFG-5 | 10:43 | 0 | |
| LFG-6 | 10:35 | 0 | |
| LFG-7 | 11:07 | 0 | |
| LFG-8 | 10:59 | 0 | |
| LFG-9A | 10:21 | 0 | |
| LFG-10 | Gas probe LFG-10 has been decommissioned for Unit III construction | | |
| LFG-11 | 9:35 | 0 | |
| LFG-12 | 10:13 | 0 | |
| LFG-13 | 10:09 | 0 | |
| LFG-14 | 10:04 | 0 | |
| LFG-15 | 10:00 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (ticket office) | 9:19 | 0 | |
| Gatehouse (Mike Foster's office) | 9:14 | 0 | |
| Gatehouse (underneath North end) | 9:11 | 0 | |
| Gatehouse (underneath East side) | 9:21 | 0 | |
| Gray Spotter's Shed | 9:23 | 0 | |
| Tan Spotter's Shed | 9:26 | 0 | |
| Filter Room | 9:29 | 0 | |
| Outhouse | 9:28 | 0 | |
| Storage Shed (formerly Pesticide Shed) | 9:30 | 0 | |
| Public Works Department Admin. Office | 9:47 | 0 | |
| Roads & Fleet Bldg. | 9:50 | 0 | |
| Fire & Rescue Bldg. | 9:53 | 0 | |
| North Storage Shed | 9:55 | 0 | |

Recorded By: Sarah Fretz

Signature(s): _____

Landfill Gas Monitoring Field Log Sandoval County Landfill

I. General Information

Date: Tuesday, April 12, 2005

Weather: Fair Temp: 62°F

Wind: Speed: 5 mph; Direction: NW

Barometric Pressure: 29.95" (S)

Precipitation (last 24 hours): 0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 4/12/05; 11:30 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|--|---------------------------------------|----------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 13:20 | 0 | Yellow Brinks lock left unlocked |
| LFG-2 | 13:11 | 0 | |
| LFG-3 | 12:56 | 0 | |
| LFG-4 | 15:15 | 0 | |
| LFG-5 | 12:40 | 0 | |
| LFG-6 | 13:07 | 0 | |
| LFG-7 | 15:24 | 0 | |
| LFG-8 | 15:09 | 0 | |
| LFG-9A | 13:15 | 0 | |
| LFG-10 | Gas probe LFG-10 has been decommissioned for Unit III construction | | |
| LFG-11 | 13:23 | 0 | |
| LFG-12 | 14:06 | 0 | |
| LFG-13 | 14:57 | 0 | |
| LFG-14 | 14:51 | 0 | |
| LFG-15 | 14:35 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (ticket office) | 13:53 | 0 | |
| Gatehouse (Mike Foster's office) | 13:59 | 0 | |
| Gatehouse (underneath North end) | 13:45 | 0 | |
| Gatehouse (underneath East side) | 13:49 | 0 | |
| Gray Spotter's Shed | 13:40 | 0 | |
| Tan Spotter's Shed | 13:37 | 0 | |
| Filter Room | 13:32 | 0 | |
| Outhouse | 13:35 | 0 | |
| Tan Metal Storage Shed | 13:26 | 0 | |
| Grey Storage Shed | 13:30 | 0 | |
| Public Works Department Admin. Office | 14:40 | 0 | |
| Roads & Fleet Bldg. | 14:43 | 0 | |
| North Storage Shed | 14:48 | 0 | |

Recorded By: Sarah Fretz, Andy Yuhas

Signature(s): _____

Landfill Gas Monitoring Field Log Sandoval County Landfill

I. General Information

Date: Wednesday, July 06, 2005

Weather: Fair Temp: 85°F

Wind: Speed: 5 mph; Direction: SE

Barometric Pressure: 30.21" (S)

Precipitation (last 24 hours): 0 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 7/6/05; 9:10 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|--|---------------------------------------|----------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 11:21 | 0 | Yellow Brinks lock left unlocked |
| LFG-2 | 10:53 | 0 | |
| LFG-3 | 10:46 | 0 | |
| LFG-4 | 11:36 | 0 | |
| LFG-5 | 10:40 | 1 | |
| LFG-6 | 10:49 | 0 | |
| LFG-7 | 11:41 | 0 | |
| LFG-8 | 11:30 | 0 | |
| LFG-9A | 10:32 | 0 | |
| LFG-10 | Gas probe LFG-10 has been decommissioned for Unit III construction | | |
| LFG-11 | 10:26 | 0 | |
| LFG-12 | 10:21 | 0 | |
| LFG-13 | 10:18 | 0 | |
| LFG-14 | 10:14 | 0 | |
| LFG-15 | 10:07 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (ticket office) | 9:34 | 0 | |
| Gatehouse (Mike Foster's office) | 9:35 | 0 | |
| Gatehouse (underneath North end) | 9:39 | 0 | |
| Gatehouse (underneath East side) | 9:40 | 0 | |
| Gray Spotter's Shed | 9:42 | 0 | |
| Tan Spotter's Shed | 9:43 | 0 | |
| Filter Room | 9:46 | 0 | |
| Outhouse | 9:45 | 0 | |
| Tan Metal Storage Shed | 9:50 | 0 | |
| Grey Storage Shed | 9:48 | 0 | |
| Public Works Department Admin. Office | 9:56 | 0 | |
| Roads & Fleet Bldg. | 9:59 | 0 | |
| North Storage Shed | 10:02 | 0 | |

Recorded By: Sarah Fretz

Signature: _____

Landfill Gas Monitoring Field Log

Sandoval County Landfill

I. General Information

Date: Wednesday, October 12, 2005

Weather: Fair Temp: 58°F

Wind: Speed: 3 mph; Direction: NE

Barometric Pressure: 30.21" (S)

Precipitation (last 24 hours): Trace inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 10/12/05; 9:25 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|---------------------|---------------------------------------|----------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 11:28 | 0 | Yellow Brinks lock left unlocked |
| LFG-2 | 11:43 | 0 | |
| LFG-3 | 11:53 | 0 | |
| LFG-4 | 12:10 | 0 | |
| LFG-5 | 11:57 | 0 | |
| LFG-6 | 11:47 | 0 | |
| LFG-7 | 12:25 | 0 | |
| LFG-8 | 12:19 | 0 | |
| LFG-9A | 11:34 | 0 | |
| LFG-9B | 14:34 | 0 | |
| LFG-10A | 14:41 | 0 | |
| LFG-11 | 11:23 | 0 | |
| LFG-12 | 11:18 | 0 | |
| LFG-13 | 11:11 | 0 | |
| LFG-14 | 11:06 | 0 | |
| LFG-15 | 11:02 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (ticket office) | 10:10 | 0 | |
| Gatehouse (Mike Foster's office) | 10:13 | 0 | |
| Gatehouse (underneath North end) | 10:15 | 0 | |
| Gatehouse (underneath East side) | 10:16 | 0 | |
| Gray Spotter's Shed | 10:17 | 0 | |
| Tan Spotter's Shed | 10:19 | 0 | |
| Filter Room | 10:23 | 0 | |
| Outhouse | 10:21 | 0 | |
| Tan Metal Storage Shed | 10:25 | 0 | |
| Grey Storage Shed | 10:24 | 0 | |
| Compost Facility Admin Building | 10:28 | 0 | |
| Public Works Department Admin. Office | 10:47 | 0 | |
| Roads & Fleet Bldg. | 10:49 | 0 | |
| North Storage Shed | 10:56 | 0 | |

Recorded By: Sarah Fretz

Signature: _____

Landfill Gas Monitoring Field Log

Sandoval County Landfill

I. General Information

Date: Thursday, January 26, 2006

Weather: Fair Temp: 47°F

Wind: Speed: 4 mph; Direction: NW

Barometric Pressure: 30.09 mmHg (S)

Precipitation (last 24 hours): 0.04 inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 1/26/06; 9:40 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|---------------------|---------------------------------------|----------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 11:09 | 0 | Yellow Brinks lock left unlocked |
| LFG-2 | 11:18 | 0 | |
| LFG-3 | 11:36 | 0 | |
| LFG-4 | 12:14 | 0 | |
| LFG-5 | 11:42 | 2 | |
| LFG-6 | 11:30 | 0 | |
| LFG-7 | 12:08 | 0 | |
| LFG-8 | 12:19 | 3 | |
| LFG-9A | 11:46 | 0 | |
| LFG-9B | 11:54 | 0 | |
| LFG-10A | 11:51 | 0 | |
| LFG-11 | 11:05 | 0 | |
| LFG-12 | 11:01 | 0 | |
| LFG-13 | 10:56 | 0 | |
| LFG-14 | 10:47 | 0 | |
| LFG-15 | 10:41 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (ticket office) | 10:02 | 0 | |
| Gatehouse (Mike Foster's office) | 10:04 | 0 | |
| Gatehouse (underneath North end) | 10:05 | 0 | |
| Gatehouse (underneath East side) | 10:06 | 0 | |
| Gray Spotter's Shed | 10:08 | 0 | |
| Tan Spotter's Shed | 10:09 | 0 | |
| Filter Room | 10:10 | 0 | |
| Outhouse | 10:12 | 0 | |
| Tan Metal Storage Shed | 10:31 | 0 | |
| Grey Storage Shed | 10:15 | 0 | |
| Compost Facility Admin Building | 10:14 | 0 | |
| Public Works Department Admin. Office | 10:20 | 0 | |
| Roads & Fleet Bldg. | 10:24 | 0 | |
| North Storage Shed | 10:29 | 0 | |

Recorded By: Sarah Fretz

Signature: _____

Landfill Gas Monitoring Field Log

Sandoval County Landfill

I. General Information

Date: Wednesday, April 5, 2006

Weather: partly sunny to drizzling Temp: 65°F Wind: Speed: 8 mph; Direction: S

Barometric Pressure: 29.71 mmHg (↓)

Precipitation (last 24 hours): trace inches

II. Equipment

Monitoring equipment used: Gascope® Combustible Gas Indicator, Industrial Model 62

Date and time last calibrated: 4/5/06; 9:30 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|---------------------|---------------------------------------|----------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 10:58 | 0 | Yellow Brinks lock left unlocked |
| LFG-2 | 11:04 | 0 | |
| LFG-3 | 11:20 | 0 | |
| LFG-4 | 12:36 | 2 | |
| LFG-5 | 11:27 | 2 | |
| LFG-6 | 11:08 | 0 | |
| LFG-7 | 12:32 | 0 | |
| LFG-8 | 12:41 | 2 | |
| LFG-9A | 11:36 | 0 | |
| LFG-9B | 11:32 | 0 | |
| LFG-10A | 11:46 | 0 | |
| LFG-11 | 10:54 | 0 | |
| LFG-12 | 10:30 | 0 | |
| LFG-13 | 10:26 | 0 | |
| LFG-14 | 10:22 | 0 | |
| LFG-15 | 10:17 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (ticket office) | 9:37 | 0 | |
| Gatehouse (Mike Foster's office) | 9:39 | 0 | |
| Gatehouse (underneath North end) | 9:40 | 0 | |
| Gatehouse (underneath East side) | 9:42 | 0 | |
| Gray Spotter's Shed | 9:44 | 0 | |
| Tan Spotter's Shed | 9:45 | 0 | |
| Filter Room | 9:50 | 0 | |
| Outhouse | 9:48 | 0 | |
| Tan Metal Storage Shed | 9:53 | 0 | |
| Grey Storage Shed | 9:52 | 0 | |
| Compost Facility Admin Building | 9:56 | 0 | |
| Public Works Department Admin. Office | 10:00 | 0 | |
| Roads & Fleet Bldg. | 10:03 | 0 | |
| North Storage Shed | 10:08 | 0 | |

Recorded By: Sarah Fretz

Signature: _____

Landfill Gas Monitoring Field Log

Sandoval County Landfill

I. General Information

Date: Thursday, July 6, 2006

Weather: partly sunny, humid Temp: 83°F

Wind: Speed: 8 mph; Direction: SW

Barometric Pressure: 30.04 mmHg (L)

Precipitation (last 24 hours): 0.7 inches

II. Equipment

Monitoring equipment used: CES LANDTEC GEM 500® Landfill Gas Analyzer

Date and time last calibrated: 7/6/06; 8:30 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|---------------------|---------------------------------------|----------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| LFG-1 | 14:32 | 0 | Yellow Brinks lock left unlocked |
| LFG-2 | 14:26 | 0 | |
| LFG-3 | 13:24 | 0 | |
| LFG-4 | 15:16 | 0 | |
| LFG-5 | 13:30 | 2 | |
| LFG-6 | 13:51 | 0 | |
| LFG-7 | 15:10 | 0 | |
| LFG-8 | 15:20 | 2 | |
| LFG-9A | 14:00 | 0 | |
| LFG-9B | 13:45 | 0 | |
| LFG-10A | 13:48 | 0 | |
| LFG-11 | 14:22 | 0 | |
| LFG-12 | 15:07 | 0 | |
| LFG-13 | 15:00 | 0 | |
| LFG-14 | 14:46 | 0 | |
| LFG-15 | 14:43 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% LEL) | Comments |
| Gatehouse (ticket office) | 14:04 | 0 | |
| Gatehouse (Mike Foster's office) | 14:06 | 0 | |
| Gatehouse (underneath North end) | 14:07 | 0 | |
| Gatehouse (underneath East side) | 14:08 | 0 | |
| Gray Spotter's Shed | 14:09 | 0 | |
| Tan Spotter's Shed | 14:10 | 0 | |
| Filter Room | 14:13 | 0 | |
| Outhouse | 14:12 | 0 | |
| Tan Metal Storage Shed | 14:15 | 0 | |
| Grey Storage Shed | 14:14 | 0 | |
| Compost Facility Admin Building | --- | --- | Building locked, no access. |
| Public Works Department Admin. Office | 14:46 | 0 | |
| Roads & Fleet Bldg. | 14:53 | 0 | |
| North Storage Shed | 14:48 | 0 | |

Recorded By: Sarah Fretz

Signature: _____

Landfill Gas Monitoring Field Log

Sandoval County Landfill

I. General Information

Date: Thursday, October 12, 2006

Weather: clear, gusty Temp: 65°F

Wind: Speed: 5-8 mph; Direction: W

Barometric Pressure: 29.95 inches Hg

Precipitation (last 24 hours): 0 inches

II. Equipment

Monitoring equipment used: CES Landtec GEM 500® portable gas analyzer

Date and time last calibrated: 10/12/06; 9:40 a.m.

III. Field Measurements

| Permanent Landfill Gas Monitoring Probes | | | |
|--|---------------------|--|----------------------------------|
| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% in air) | Comments |
| LFG-1 | 10:47 | 0 | Yellow Brinks lock left unlocked |
| LFG-2 | 11:06 | 0 | |
| LFG-3 | 12:00 | 0 | |
| LFG-4 | 12:50 | 0 | |
| LFG-5 | 12:09 | 0 | |
| LFG-6 | 11:55 | 0 | |
| LFG-7 | 12:55 | 0 | |
| LFG-8 | 12:44 | 0 | |
| LFG-9A | 12:20 | 0 | |
| LFG-9B | 12:13 | 0 | |
| LFG-10A | 12:29 | 0 | |
| LFG-11 | 10:40 | 0 | |
| LFG-12 | 11:35 | 0 | |
| LFG-13 | 11:38 | 0 | |
| LFG-14 | 11:41 | 0 | |
| LFG-15 | 11:46 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% in air) | Comments |
| Gatehouse (ticket office) | 10:19 | 0 | |
| Gatehouse (supervisor's office) | 10:21 | 0 | |
| Gatehouse (underneath North end) | 10:28 | 0 | |
| Gatehouse (underneath East side) | 10:30 | 0 | |
| Gray Spotter's Shed | 10:31 | 0 | |
| Tan Spotter's Shed | 10:32 | 0 | |
| Filter Room | 10:34 | 0 | |
| Outhouse | 10:37 | 0 | |
| Tan Metal Storage Shed | 10:36 | 0 | |
| Gray Storage Shed | 10:35 | 0 | |
| Compost Facility Admin Building | 10:50 | 0 | |
| Public Works Department Admin. Office | 11:15 | 0 | |
| Roads & Fleet Bldg. | 11:18 | 0 | |
| Fire & Rescue Trailer | 12:33 | 0 | |
| North Storage Shed | 11:20 | 0 | |

Recorded By: Sarah Fretz, Miguel Hermann

Signature(s): _____

Landfill Gas Monitoring Field Log

Sandoval County Landfill

Weather Information

Precipitation (last 24 hours): 0 inches
 Temp: 34 °F
 Wind Speed: 0 mph
 Wind Direction: --
 Barometric Pressure: 30.13 in Hg

Outlook & Observations:

Clear with high clouds, very calm.
Crusty snow 4-8" deep, (2 weeks old) no
vehicle access to some probes, very muddy.

Equipment Information

Monitoring equipment used: CES Landtec GEM-500®
 Date and time last calibrated: 1/10/07; 8:45 a.m.

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% in air) | Comments |
|----------------------------------|---------------------|--|----------------------------------|
| LFG-1 | 11:37 | 0 | Yellow Brinks lock left unlocked |
| LFG-2 | 9:48 | 0 | |
| LFG-3 | 9:58 | 0 | |
| LFG-4 | 13:21 | 0 | |
| LFG-5 | 10:07 | 0.4 | |
| LFG-6 | 9:54 | 0 | |
| LFG-7 | 13:26 | 0 | |
| LFG-8 | 13:15 | 0 | |
| LFG-9A | 10:25 | 0 | |
| LFG-9B | 10:20 | 0.2 | |
| LFG-10A | 10:37 | 0 | |
| LFG-11 | 11:23 | 0 | |
| LFG-12 | 11:17 | 0 | |
| LFG-13 | 11:11 | 0 | |
| LFG-14 | 11:05 | 0 | |
| LFG-15 | 10:49 | 0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% in air) | Comments |
| Gatehouse (ticket office) | 11:29 | 0 | |
| Gatehouse (supervisor's office) | 11:32 | 0 | |
| Gatehouse (underneath North end) | 11:35 | 0 | |
| Gatehouse (underneath East side) | 11:37 | 0 | |
| Gray Spotter's Shed | 11:39 | 0 | |
| Tan Spotter's Shed | 11:41 | 0 | |
| Filter Room | 11:46 | 0 | |
| Outhouse | 11:44 | 0 | |
| Tan Metal Storage Shed | 11:48 | 0 | |
| Gray Storage Shed | 11:50 | 0 | |
| Compost Facility Admin Building | 11:54 | 0 | |
| Public Works Dept. Admin. Office | 10:52 | 0 | |
| Roads & Fleet Bldg. | 10:56 | 0 | |
| Fire & Rescue Trailer | 10:43 | 0 | |
| North Storage Shed | 10:58 | 0 | |

Recorded By: Sarah Fretz

Signature _____

Landfill Gas Monitoring Field Log

Sandoval County Landfill

Weather Information

Precipitation (last 24 hours): trace inches
 Temp: 65 °F
 Wind Speed: 0-10 mph
 Wind Direction: var
 Barometric Pressure: 30.13 in Hg

Outlook & Observations:

Clear, calm, dry.

Equipment Information

Monitoring equipment used: CES Landtec GEM-500®
 Date and time last calibrated: 4/27/07 9:00am

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% in air) | Comments |
|----------------------------------|---------------------|--|----------------------------------|
| LFG-1 | 12:04 | 0.0 | Yellow Brinks lock left unlocked |
| LFG-2 | 11:55 | 0.0 | top loose |
| LFG-3 | 12:18 | 0.0 | |
| LFG-4 | 13:13 | 0.0 | |
| LFG-5 | 12:28 | 0.0 | |
| LFG-6 | 12:13 | 0.0 | |
| LFG-7 | 13:18 | 0.0 | |
| LFG-8 | 13:07 | 0.0 | |
| LFG-9A | 12:41 | 0.0 | |
| LFG-9B | 12:36 | 0.0 | |
| LFG-10A | 12:56 | 0.0 | |
| LFG-11 | 11:33 | 0.0 | |
| LFG-12 | 10:43 | 0.0 | |
| LFG-13 | 10:34 | 0.0 | |
| LFG-14 | 10:51 | 0.0 | |
| LFG-15 | 10:24 | 0.0 | |
| Landfill Structures | | | |
| Structure | Time of Measurement | CH ₄ Concentration (% in air) | Comments |
| Gatehouse (ticket office) | 11:01 | 0.0 | |
| Gatehouse (supervisor's office) | 11:03 | 0.0 | |
| Gatehouse (underneath North end) | 11:09 | 0.0 | |
| Gatehouse (underneath East side) | 11:12 | 0.0 | |
| Gray Spotter's Shed | 11:17 | 0.0 | |
| Tan Spotter's Shed | 11:14 | 0.0 | |
| Filter Room | 11:26 | 0.0 | |
| Outhouse | 11:28 | 0.0 | |
| Tan Metal Storage Shed | 11:19 | 0.0 | |
| Gray Storage Shed | 11:24 | 0.0 | |
| Compost Facility Admin Building | 11:41 | 0.0 | |
| Public Works Dept. Admin. Office | 9:59 | 0.0 | |
| Roads & Fleet Bldg. | 10:05 | 0.0 | |
| Fire & Rescue Trailer | 10:15 | 0.0 | |
| North Storage Shed | 10:11 | 0.0 | |

Recorded By: Michael Hermann

Signature _____

Landfill Gas Monitoring Field Log

Sandoval County Landfill

Weather Information

Precipitation (last 24 hours): 0 inches
 Temp: 81 °F
 Wind Speed: Calm mph
 Wind Direction: N/A
 Barometric Pressure: 29.81 in Hg

Outlook & Observations:

Hazy, Humid

Equipment Information

Monitoring equipment used: CES Landtec GEM-500®
 Date and time last calibrated: 7/9/07 9:00 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% in air) | Comments |
|---------------------|---------------------|--|----------------------------------|
| LFG-1 | 10:23 | 0.0 | Yellow Brinks lock left unlocked |
| LFG-2 | 11:27 | 0.0 | top loose |
| LFG-3 | 11:43 | 0.0 | |
| LFG-4 | 12:19 | 0.0 | |
| LFG-5 | 11:50 | 0.3 | |
| LFG-6 | 11:36 | 0.0 | |
| LFG-7 | 12:14 | 0.0 | |
| LFG-8 | 12:24 | 0.2 | |
| LFG-9A | 12:01 | 0.0 | |
| LFG-9B | 11:57 | 0.0 | |
| LFG-10A | 10:52 | 0.0 | |
| LFG-11 | 10:08 | 0.0 | |
| LFG-12 | 11:17 | 0.0 | |
| LFG-13 | 11:12 | 0.0 | |
| LFG-14 | 13:04 | 0.0 | |
| LFG-15 | 10:57 | 0.0 | |

Landfill Structures

| Structure | Time of Measurement | CH ₄ Concentration (% in air) | Comments |
|----------------------------------|---------------------|--|----------|
| Gatehouse (ticket office) | 9:42 | 0.0 | |
| Gatehouse (supervisor's office) | 9:45 | 0.0 | |
| Gatehouse (underneath North end) | 9:48 | 0.0 | |
| Gatehouse (underneath East side) | 9:53 | 0.0 | |
| Gray Spotter's Shed | 9:56 | 0.0 | |
| Tan Spotter's Shed | 9:59 | 0.0 | |
| Filter Room | 10:14 | 0.0 | |
| Outhouse | 10:02 | 0.0 | |
| Tan Metal Storage Shed | 10:18 | 0.0 | |
| Gray Storage Shed | 10:16 | 0.0 | |
| Compost Facility Admin Building | 11:21 | 0.0 | |
| Public Works Dept. Admin. Office | 10:30 | 0.0 | |
| Roads & Fleet Bldg. | 10:35 | 0.0 | |
| Fire & Rescue Trailer | 10:43 | 0.0 | |
| North Storage Shed | 10:39 | 0.0 | |

Recorded By: _____

Signature _____

Landfill Gas Monitoring Field Log

Samper name: Don Gray

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe and ambient Probe Depth: 30'

Weather Information

Date and amount of last participation 0 inches

Temp: 73 °F

Weather Conditions:

Wind Speed: Calm mph

Clear

Wind Direction: N/A

Barometric Pressure: 30.16 in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-500®

Date and time last calibrated: 10/10/07 9:00 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% in air) | CO ₂ % | O ₂ % | Balance Gas % |
|---------------------|---------------------|--|-------------------|------------------|---------------|
| LFG-1 | 12:04 | 0.0 | 0.0 | 21.2 | 78.8 |
| LFG-2 | 11:20 | 0.0 | 0.0 | 20.9 | 79.1 |
| LFG-3 | 11:31 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-4 | 12:18 | 0.1 | 0.0 | 21.3 | 78.6 |
| LFG-5 | 11:36 | 0.1 | 0.0 | 18.4 | 81.5 |
| LFG-6 | 11:26 | 0.0 | 0.0 | 21.0 | 79.0 |
| LFG-7 | 12:14 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-8 | 12:24 | 0.3 | 0.0 | 20.9 | 78.8 |
| LFG-9A | 11:46 | 0.0 | 0.0 | 20.8 | 79.2 |
| LFG-9B | 11:41 | 0.0 | 0.0 | 21.2 | 78.8 |
| LFG-10A | 11:51 | 0.0 | 0.0 | 21.3 | 78.7 |
| LFG-11 | 10:57 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-12 | 10:32 | 0.0 | 0.0 | 20.5 | 79.5 |
| LFG-13 | 10:28 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-14 | 10:22 | 0.0 | 0.0 | 20.8 | 79.2 |
| LFG-15 | 10:08 | 0.0 | 0.0 | 20.7 | 79.3 |

Landfill Structures

| Structure | Time of Measurement | CH ₄ Concentration (% in air) | CO ₂ % | O ₂ % | Balance Gas % |
|----------------------------------|---------------------|--|-------------------|------------------|---------------|
| Gatehouse (ticket office) | 10:40 | 0.0 | 0.0 | 21.0 | 79.0 |
| Gatehouse (supervisor's office) | 10:42 | 0.0 | 0.0 | 21.1 | 78.9 |
| Gatehouse (underneath North end) | 10:49 | 0.0 | 0.0 | 21.0 | 79.0 |
| Gatehouse (underneath East side) | 10:45 | 0.0 | 0.0 | 21.0 | 79.0 |
| Gray Spotter's Shed | 10:54 | 0.0 | 0.0 | 21.0 | 79.0 |
| Tan Spotter's Shed | 10:51 | 0.0 | 0.0 | 21.0 | 79.0 |
| Filter Room | 11:01 | 0.0 | 0.0 | 21.2 | 78.8 |
| Outhouse | 11:09 | 0.0 | 0.0 | 21.2 | 78.8 |
| Tan Metal Storage Shed | 11:06 | 0.0 | 0.0 | 21.2 | 78.8 |
| Gray Storage Shed | 11:04 | 0.0 | 0.0 | 21.2 | 78.8 |
| Compost Facility Admin Building | 11:14 | 0.0 | 0.0 | 21.3 | 78.7 |
| Public Works Dept. Admin. Office | 9:54 | 0.0 | 0.0 | 21.1 | 78.9 |
| Roads & Fleet Bldg. | 9:59 | 0.0 | 0.0 | 21.1 | 78.9 |
| Fire & Rescue Trailer | 10:14 | 0.0 | 0.0 | 21.1 | 78.9 |
| North Storage Shed | 10:18 | 0.0 | 0.0 | 21.0 | 79.0 |

Signature _____

Landfill Gas Monitoring Field Log

Sampler name: Don Gray

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe and ambient **Probe Depth:** 30'

Weather Information

Date and amount of last participation 0 inches

Temp: 33 °F

Weather Conditions:

Wind Speed: Calm mph

Clear

Wind Direction: N/A

Barometric Pressure: 30.11 in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-500®

Date and time last calibrated: 01/15/08 10:00 A.M.

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% in air) | CO ₂ % | O ₂ % | Balance Gas % |
|---------------------|---------------------|--|-------------------|------------------|---------------|
| LFG-1 | 14:47 | 0.0 | 0.5 | 21.2 | 78.3 |
| LFG-2 | 12:36 | 0.1 | 0.8 | 20.3 | 78.8 |
| LFG-3 | 12:52 | 0.0 | 4.1 | 16.0 | 79.9 |
| LFG-4 | 13:36 | 0.2 | 0.9 | 20.5 | 78.4 |
| LFG-5 | 12:58 | 0.2 | 5.0 | 16.5 | 78.3 |
| LFG-6 | 12:44 | 0.1 | 0.7 | 20.3 | 78.9 |
| LFG-7 | 13:31 | 0.0 | 1.6 | 20.0 | 78.4 |
| LFG-8 | 13:40 | 0.6 | 1.3 | 20.4 | 77.7 |
| LFG-9A | 13:08 | 0.0 | 0.3 | 21.2 | 78.5 |
| LFG-9B | 13:03 | 0.1 | 0.4 | 21.0 | 78.5 |
| LFG-10A | 11:52 | 0.0 | 0.5 | 20.4 | 79.1 |
| LFG-11 | 12:16 | 0.0 | 0.9 | 20.2 | 78.9 |
| LFG-12 | 13:51 | 0.0 | 0.6 | 21.3 | 78.1 |
| LFG-13 | 13:47 | 0.0 | 0.7 | 21.1 | 78.2 |
| LFG-14 | 13:17 | 0.0 | 0.4 | 21.2 | 78.4 |
| LFG-15 | 11:42 | 0.0 | 0.5 | 20.8 | 78.7 |

Landfill Structures

| Structure | Time of Measurement | CH ₄ Concentration (% in air) | CO ₂ % | O ₂ % | Balance Gas % |
|----------------------------------|---------------------|--|-------------------|------------------|---------------|
| Gatehouse (ticket office) | 11:59 | 0.0 | 0.2 | 20.8 | 79.0 |
| Gatehouse (supervisor's office) | 12:03 | 0.0 | 0.2 | 20.8 | 79.0 |
| Gatehouse (underneath North end) | 12:06 | 0.0 | 0.1 | 21.0 | 78.9 |
| Gatehouse (underneath East side) | 12:08 | 0.0 | 0.1 | 20.8 | 79.1 |
| Gray Spotter's Shed | 12:10 | 0.0 | 0.1 | 20.9 | 79.0 |
| Tan Spotter's Shed | 12:12 | 0.0 | 0.1 | 21.1 | 78.8 |
| Filter Room | 12:23 | 0.0 | 0.1 | 21.1 | 78.8 |
| Outhouse | 12:20 | 0.0 | 0.1 | 21.1 | 78.8 |
| Tan Metal Storage Shed | 12:27 | 0.0 | 0.1 | 21.1 | 78.8 |
| Gray Storage Shed | 12:25 | 0.0 | 0.1 | 21.1 | 78.8 |
| Compost Facility Admin Building | 12:31 | 0.0 | 0.1 | 21.1 | 78.8 |
| Public Works Dept. Admin. Office | 11:33 | 0.0 | 0.2 | 21.0 | 78.8 |
| Roads & Fleet Bldg. | 11:37 | 0.0 | 0.2 | 21.1 | 78.7 |
| Fire & Rescue Trailer | 11:49 | 0.0 | 0.1 | 20.9 | 79.0 |
| North Storage Shed | 13:22 | 0.0 | 0.1 | 21.5 | 78.4 |

Signature _____

Landfill Gas Monitoring Field Log

Sampler name: Don Gray

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe and ambient **Probe Depth:** 30'

Weather Information

Date and amount of last participation 0 inches

Temp: 46.4 °F

Weather Conditions:

Wind Speed: 15 mph

Clear

Wind Direction: WNW

Barometric Pressure: 30.01 in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-500®

Date and time last calibrated: 05/02/08 08:45 A.M.

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% in air) | CO ₂ % | O ₂ % | Balance Gas % |
|---------------------|---------------------|--|-------------------|------------------|---------------|
| LFG-1 | 12:40 | 0.0 | 0.2 | 21.3 | 78.5 |
| LFG-2 | 10:21 | 0.0 | 0.4 | 21.2 | 78.4 |
| LFG-3 | 10:34 | 0.0 | 0.2 | 21.2 | 78.6 |
| LFG-4 | 12:12 | 0.0 | 0.2 | 21.3 | 78.5 |
| LFG-5 | 10:39 | 0.2 | 4.0 | 17.8 | 78.0 |
| LFG-6 | 10:31 | 0.0 | 0.3 | 21.3 | 78.4 |
| LFG-7 | 12:17 | 0.0 | 1.1 | 20.4 | 78.5 |
| LFG-8 | 12:08 | 0.2 | 0.8 | 20.9 | 78.1 |
| LFG-9A | 11:00 | 0.0 | 0.4 | 21.2 | 78.4 |
| LFG-9B | 12:30 | 0.0 | 0.2 | 21.4 | 78.4 |
| LFG-10A | 12:25 | 0.0 | 0.2 | 21.1 | 78.7 |
| LFG-11 | 10:00 | 0.0 | 0.8 | 20.7 | 78.5 |
| LFG-12 | 12:02 | 0.0 | 0.5 | 20.9 | 78.6 |
| LFG-13 | 11:56 | 0.0 | 0.3 | 21.2 | 78.5 |
| LFG-14 | 11:50 | 0.0 | 0.2 | 21.3 | 78.5 |
| LFG-15 | 11:19 | 0.0 | 0.4 | 21.0 | 78.6 |

Landfill Structures

| Structure | Time of Measurement | CH ₄ Concentration (% in air) | CO ₂ % | O ₂ % | Balance Gas % |
|----------------------------------|---------------------|--|-------------------|------------------|---------------|
| Gatehouse (ticket office) | 9:45 | 0.0 | 0.3 | 21.4 | 78.3 |
| Gatehouse (supervisor's office) | 9:43 | 0.0 | 0.3 | 21.4 | 78.3 |
| Gatehouse (underneath North end) | 9:48 | 0.0 | 0.3 | 21.2 | 78.5 |
| Gatehouse (underneath East side) | 9:40 | 0.0 | 0.3 | 21.2 | 78.5 |
| Gray Spotter's Shed | 9:50 | 0.0 | 0.3 | 21.3 | 78.4 |
| Tan Spotter's Shed | 9:52 | 0.0 | 0.3 | 21.2 | 78.5 |
| Filter Room | 10:03 | 0.0 | 0.3 | 21.2 | 78.5 |
| Outhouse | 9:55 | 0.0 | 0.3 | 21.2 | 78.5 |
| Tan Metal Storage Shed | 10:07 | 0.0 | 0.2 | 21.3 | 78.5 |
| Gray Storage Shed | 10:05 | 0.0 | 0.2 | 21.4 | 78.4 |
| Compost Facility Admin Building | 10:10 | 0.0 | 0.2 | 21.2 | 78.6 |
| Public Works Dept. Admin. Office | 11:23 | 0.0 | 0.2 | 21.3 | 78.5 |
| Roads & Fleet Bldg. | 11:20 | 0.0 | 0.2 | 21.4 | 78.4 |
| Fire & Rescue Trailer | 11:40 | 0.0 | 0.2 | 21.4 | 78.4 |
| North Storage Shed | 11:45 | 0.0 | 0.2 | 21.5 | 78.3 |

Signature _____

Landfill Gas Monitoring Field Log

Sampler name: Don Gray

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe and ambient **Probe Depth:** 30'

Weather Information

Date and amount of last precipitation: 0 inches

Temp: 78 °F

Weather Conditions:
Clear

Wind Speed: 5.8 mph

Wind Direction: NE

Barometric Pressure: 24.25 in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-500®

Date and time last calibrated: 07/08/08 09:00 A.M.

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% in air) | CO ₂ % | O ₂ % | Balance Gas % |
|---------------------|---------------------|--|-------------------|------------------|---------------|
| LFG-1 | 10:41 | 0.0 | 0.1 | 20.6 | 79.3 |
| LFG-2 | 10:47 | 0.0 | 0.4 | 20.4 | 79.2 |
| LFG-3 | 10:55 | 0.0 | 0.1 | 20.7 | 79.2 |
| LFG-4 | 10:22 | 0.0 | 0.1 | 20.5 | 79.4 |
| LFG-5 | 11:01 | 0.2 | 3.7 | 17.2 | 78.9 |
| LFG-6 | 10:52 | 0.0 | 0.1 | 20.7 | 79.2 |
| LFG-7 | 10:19 | 0.0 | 0.9 | 19.7 | 79.4 |
| LFG-8 | 10:26 | 0.2 | 0.7 | 20.1 | 79.0 |
| LFG-9A | 11:10 | 0.0 | 0.3 | 20.4 | 79.3 |
| LFG-9B | 11:05 | 0.0 | 0.1 | 20.4 | 79.5 |
| LFG-10A | 11:18 | 0.0 | 0.1 | 20.6 | 79.3 |
| LFG-11 | 10:34 | 0.0 | 0.1 | 20.6 | 79.3 |
| LFG-12 | 11:39 | 0.0 | 0.4 | 20.3 | 79.3 |
| LFG-13 | 11:33 | 0.0 | 0.3 | 20.4 | 79.3 |
| LFG-14 | 11:23 | 0.0 | 0.1 | 20.6 | 79.3 |
| LFG-15 | 10:29 | 0.0 | 0.4 | 20.4 | 79.2 |

Landfill Structures

| Structure | Time of Measurement | CH ₄ Concentration (% in air) | CO ₂ % | O ₂ % | Balance Gas % |
|----------------------------------|---------------------|--|-------------------|------------------|---------------|
| Gatehouse (ticket office) | 12:17 | 0.0 | 0.1 | 20.6 | 79.3 |
| Gatehouse (supervisor's office) | 12:19 | 0.0 | 0.1 | 20.7 | 79.2 |
| Gatehouse (underneath North end) | 11:59 | 0.0 | 0.0 | 20.8 | 79.2 |
| Gatehouse (underneath East side) | 12:01 | 0.0 | 0.0 | 20.8 | 79.2 |
| Gray Spotter's Shed | 12:05 | 0.0 | 0.0 | 20.7 | 79.3 |
| Tan Spotter's Shed | 12:07 | 0.0 | 0.1 | 20.8 | 79.1 |
| Filter Room | 12:11 | 0.0 | 0.0 | 20.8 | 79.2 |
| Outhouse | 12:10 | 0.0 | 0.0 | 20.8 | 79.2 |
| Tan Metal Storage Shed | 12:14 | 0.0 | 0.0 | 20.7 | 79.3 |
| Gray Storage Shed | 12:13 | 0.0 | 0.0 | 20.7 | 79.3 |
| Compost Facility Admin Building | 12:23 | 0.0 | 0.0 | 20.6 | 79.4 |
| Public Works Dept. Admin. Office | 11:46 | 0.0 | 0.1 | 20.7 | 79.2 |
| Roads & Fleet Bldg. | 11:48 | 0.0 | 0.1 | 20.7 | 79.2 |
| Fire & Rescue Trailer | 11:56 | 0.0 | 0.0 | 20.8 | 79.2 |
| North Storage Shed | 11:52 | 0.0 | 0.0 | 20.7 | 79.3 |

Signature _____

Landfill Gas Monitoring Field Log

Sampler name: Don Gray

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe and ambient Probe Depth: 30'

Weather Information

Date and amount of last precipitation: 0 inches

Temp: 68 °F

Weather Conditions:

Wind Speed: Calm mph

Clear

Wind Direction: N/A

Barometric Pressure: 30.31↑ in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-500®

Date and time last calibrated: 10/7/08 10:00 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ Concentration (% in air) | CO ₂ % | O ₂ % | Balance Gas % |
|---------------------|---------------------|--|-------------------|------------------|---------------|
| LFG-1 | 12:22 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-2 | 12:14 | 0.0 | 0.1 | 19.8 | 80.1 |
| LFG-3 | 12:05 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-4 | 12:45 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-5 | 11:57 | 0.0 | 2.3 | 17.7 | 80.0 |
| LFG-6 | 12:09 | 0.0 | 0.0 | 19.9 | 80.1 |
| LFG-7 | 12:41 | 0.0 | 0.7 | 19.3 | 80.0 |
| LFG-8 | 12:49 | 0.1 | 0.2 | 19.8 | 79.9 |
| LFG-9A | 11:47 | 0.1 | 0.3 | 19.6 | 80.0 |
| LFG-9B | 11:51 | 0.2 | 0.0 | 19.7 | 80.1 |
| LFG-10A | 11:40 | 0.1 | 0.0 | 19.7 | 80.2 |
| LFG-11 | 12:57 | 0.0 | 0.7 | 19.0 | 80.3 |
| LFG-12 | 12:33 | 0.0 | 0.2 | 19.7 | 80.1 |
| LFG-13 | 12:27 | 0.0 | 0.1 | 19.7 | 80.2 |
| LFG-14 | 11:31 | 0.0 | 0.0 | 20.0 | 80.0 |
| LFG-15 | 11:16 | 0.0 | 0.4 | 19.7 | 79.9 |

Landfill Structures

| Structure | Time of Measurement | CH ₄ Concentration (% in air) | CO ₂ % | O ₂ % | Balance Gas % |
|----------------------------------|---------------------|--|-------------------|------------------|---------------|
| Gatehouse (ticket office) | 13:23 | 0.0 | 0.0 | 20.3 | 79.7 |
| Gatehouse (supervisor's office) | 13:25 | 0.0 | 0.0 | 20.3 | 79.7 |
| Gatehouse (underneath North end) | 13:15 | 0.0 | 0.0 | 20.3 | 79.7 |
| Gatehouse (underneath East side) | 13:17 | 0.0 | 0.0 | 20.2 | 79.8 |
| Gray Spotter's Shed | 13:18 | 0.0 | 0.0 | 20.4 | 79.6 |
| Tan Spotter's Shed | 13:20 | 0.0 | 0.1 | 20.4 | 79.5 |
| Filter Room | 13:03 | 0.1 | 0.0 | 20.2 | 79.7 |
| Outhouse | 13:01 | 0.0 | 0.0 | 20.2 | 79.8 |
| Tan Metal Storage Shed | 13:07 | 0.0 | 0.0 | 20.2 | 79.8 |
| Gray Storage Shed | 13:05 | 0.0 | 0.0 | 20.2 | 79.8 |
| Compost Facility Admin Building | 13:11 | 0.0 | 0.0 | 20.4 | 79.6 |
| Public Works Dept. Admin. Office | 11:19 | 0.0 | 0.1 | 20.0 | 79.9 |
| Roads & Fleet Bldg. | 11:23 | 0.0 | 0.1 | 20.0 | 79.9 |
| Fire & Rescue Trailer | 11:36 | 0.0 | 0.0 | 20.0 | 80.0 |
| North Storage Shed | 11:26 | 0.0 | 0.0 | 20.0 | 80.0 |

Signature _____

Landfill Gas Monitoring Field Log

Attachment B

Sampler name: Don Gray

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe and ambient Probe Depth: 30'

Weather Information

Date and amount of last precipitation: 1/5/09, 0.02 inches

Temp: 36.6 °F

Weather Conditions:

Wind Speed: 10.9 mph

Some Clouds / Windy

Wind Direction: SW

Barometric Pressure: 30.06↑ in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 1/27/09 9:00 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 10:29 | 0.0 | 0.0 | 21.3 | 78.7 |
| LFG-2 | 10:49 | 0.0 | 0.0 | 21.1 | 78.9 |
| LFG-3 | 10:40 | 0.0 | 0.0 | 21.4 | 78.6 |
| LFG-4 | 11:37 | 0.1 | 0.3 | 20.6 | 79.0 |
| LFG-5 | 10:57 | 0.1 | 5.0 | 16.6 | 78.3 |
| LFG-6 | 10:44 | 0.0 | 0.1 | 20.8 | 79.1 |
| LFG-7 | 11:32 | 0.0 | 1.0 | 20.3 | 78.7 |
| LFG-8 | 11:42 | 0.2 | 0.5 | 20.6 | 78.7 |
| LFG-9A | 11:08 | 0.0 | 0.0 | 21.0 | 79.0 |
| LFG-9B | 11:02 | 0.0 | 0.0 | 21.0 | 79.0 |
| LFG-10A | 10:20 | 0.0 | 0.0 | 21.0 | 79.0 |
| LFG-11 | 10:25 | 0.0 | 0.0 | 21.3 | 78.7 |
| LFG-12 | 11:20 | 0.0 | 0.3 | 20.7 | 79.0 |
| LFG-13 | 11:24 | 0.0 | 0.0 | 20.8 | 79.2 |
| LFG-14 | 10:12 | 0.0 | 0.0 | 21.0 | 79.0 |
| LFG-15 | 10:05 | 0.0 | 0.0 | 20.5 | 79.5 |

Landfill Structures

| | | | | | |
|----------------------------------|-------|-----|-----|------|------|
| Gatehouse (ticket office) | 12:07 | 0.0 | 0.0 | 21.2 | 78.8 |
| Gatehouse (supervisor's office) | 12:09 | 0.0 | 0.0 | 21.2 | 78.8 |
| Gatehouse (underneath North end) | 11:59 | 0.0 | 0.0 | 21.1 | 78.9 |
| Gatehouse (underneath East side) | 12:01 | 0.0 | 0.0 | 21.1 | 78.9 |
| Gray Spotter's Shed | 12:03 | 0.0 | 0.0 | 21.2 | 78.8 |
| Tan Spotter's Shed | 12:05 | 0.0 | 0.0 | 21.2 | 78.8 |
| Filter Room | 11:50 | 0.0 | 0.0 | 21.1 | 78.9 |
| Outhouse | 11:52 | 0.0 | 0.0 | 21.1 | 78.9 |
| Tan Metal Storage Shed | 11:55 | 0.0 | 0.0 | 21.0 | 79.0 |
| Gray Storage Shed | 11:54 | 0.0 | 0.0 | 21.0 | 79.0 |
| Compost Facility Admin. Building | 10:34 | 0.0 | 0.0 | 21.4 | 78.6 |
| Public Works Dept. Admin. Office | 9:52 | 0.0 | 0.0 | 20.6 | 79.4 |
| Roads & Fleet Bldg. | 9:57 | 0.0 | 0.0 | 20.7 | 79.3 |
| Fire & Rescue Trailer | 10:16 | 0.0 | 0.0 | 21.3 | 78.7 |
| North Storage Shed | 10:01 | 0.0 | 0.0 | 20.7 | 79.3 |

Ambient Readings

| | | | | | |
|---------------------------|-------|-----|-----|------|------|
| Outside Pulic Works Bldg. | 9:50 | 0.0 | 0.0 | 20.5 | 79.5 |
| Outside Gate House | 12:15 | 0.0 | 0.0 | 21.0 | 79.0 |

Signature _____

Landfill Gas Monitoring Field Log

Attachment B

Friday, May 22, 2009

Sampler name: Sarah Schnell

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe and barhole

Probe Depth: 30' or 24'-36"

Weather Information

Date and amount of last precipitation: today inches

Temp: 55 °F

Weather Conditions:

Wind Speed: 3.5-18.5 mph

Overcast, Windy

Wind Direction: S

Barometric Pressure: 30.14 (S) in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 5/22/09 12:17 PM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 12:42 | 0.0 | 0.1 | 18.8 | 81.1 |
| LFG-2 | 12:59 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-3 | 13:11 | 0.0 | 0.0 | 20.0 | 80.0 |
| LFG-4 | 14:56 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-5 | 13:26 | 0.0 | 3.8 | 17.1 | 79.1 |
| LFG-6 | 13:06 | 0.0 | 0.0 | 19.6 | 80.4 |
| LFG-7 | 15:01 | 0.0 | 0.8 | 19.6 | 79.6 |
| LFG-8 | 14:52 | 0.1 | 0.4 | 20.0 | 79.5 |
| LFG-9A | 13:55 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-9B | 13:30 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-10A | 14:35 | 0.0 | 0.0 | 20.2 | 79.8 |
| LFG-11 | 12:48 | 0.0 | 0.0 | 19.9 | 80.1 |
| LFG-12 | 14:43 | 0.0 | 0.1 | 20.2 | 79.7 |
| LFG-13 | 14:39 | 0.0 | 0.0 | 20.2 | 79.8 |
| LFG-14 | 14:30 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-15 | 14:12 | 0.0 | 0.0 | 20.1 | 79.9 |

Landfill Structures

| | | | | | |
|----------------------------------|-------|-----|-----|------|------|
| Gatehouse (ticket office) | 12:20 | 0.0 | 0.0 | 20.0 | 80.0 |
| Gatehouse (supervisor's office) | 12:22 | 0.0 | 0.0 | 20.0 | 80.0 |
| Gatehouse (underneath North end) | 12:24 | 0.0 | 0.0 | 20.0 | 80.0 |
| Gatehouse (underneath East side) | 12:25 | 0.0 | 0.0 | 20.0 | 80.0 |
| Gray Spotter's Shed | 12:26 | 0.0 | 0.0 | 19.9 | 80.1 |
| Tan Spotter's Shed | 12:28 | 0.0 | 0.0 | 19.9 | 80.1 |
| Filter Room | 12:29 | 0.0 | 0.0 | 19.9 | 80.1 |
| Outhouse | 12:31 | 0.0 | 0.0 | 19.9 | 80.1 |
| Tan Metal Storage Shed | 12:34 | 0.0 | 0.0 | 19.9 | 80.1 |
| Gray Storage Shed | 12:32 | 0.0 | 0.0 | 19.9 | 80.1 |
| Compost Facility Admin. Building | 12:38 | 0.0 | 0.0 | 19.9 | 80.1 |
| Public Works Dept. Admin. Office | 14:17 | 0.0 | 0.0 | 20.3 | 79.7 |
| Roads & Fleet Bldg. | 14:23 | 0.0 | 0.0 | 20.3 | 79.7 |
| Fire & Rescue Trailer | 14:26 | 0.0 | 0.0 | 20.4 | 79.6 |
| North Storage Shed | 14:20 | 0.0 | 0.0 | 20.3 | 79.7 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-16 | 14:07 | 0.0 | 0.0 | 20.2 | 79.8 |
| LFG-17 | 14:02 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-18 | 13:57 | 0.0 | 0.0 | 20.2 | 79.8 |
| LFG-19 | 13:52 | 0.0 | 0.0 | 20.2 | 79.8 |
| LFG-20 | 13:48 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-21 | 13:44 | 0.0 | 0.0 | 20.0 | 80.0 |
| LFG-22 | 13:39 | 0.0 | 0.0 | 20.0 | 80.0 |
| LFG-23 | 13:35 | 0.0 | 0.0 | 20.1 | 79.9 |

Ambient Readings

| | | | | | |
|--------------------|-------|-----|-----|------|------|
| Outside Gate House | 12:17 | 0.0 | 0.0 | 20.1 | 79.5 |
| Near LFG- 4 | 15:03 | 0.0 | 0.0 | 20.4 | 79.0 |

Signature _____

Landfill Gas Monitoring Field Log

Attachment B

Thursday, July 30, 2009

Sampler name: Don Gray

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe and barhole Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 7/30/09, 0.2 inches

Temp: 66 °F

Weather Conditions:

Wind Speed: N/A mph

Clear / Calm

Wind Direction: N/A

Barometric Pressure: 30.22↓ in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 7/30/09 8:30 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 12:04 | 0.0 | 0.1 | 18.7 | 81.2 |
| LFG-2 | 11:51 | 0.0 | 0.0 | 18.6 | 81.4 |
| LFG-3 | 11:43 | 0.0 | 0.0 | 19.2 | 80.8 |
| LFG-4 | 13:17 | 0.0 | 0.1 | 19.0 | 80.9 |
| LFG-5 | 11:35 | 0.0 | 3.5 | 16.0 | 80.5 |
| LFG-6 | 11:48 | 0.0 | 0.0 | 18.9 | 81.1 |
| LFG-7 | 13:21 | 0.0 | 0.3 | 19.3 | 80.4 |
| LFG-8 | 13:15 | 0.1 | 0.0 | 17.6 | 82.3 |
| LFG-9A | 10:48 | 0.0 | 0.0 | 19.2 | 80.8 |
| LFG-9B | 11:25 | 0.0 | 0.0 | 19.0 | 81.0 |
| LFG-10A | 10:19 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-11 | 13:00 | 0.0 | 0.4 | 17.0 | 82.6 |
| LFG-12 | 12:56 | 0.0 | 0.0 | 17.7 | 82.3 |
| LFG-13 | 12:52 | 0.0 | 0.0 | 17.7 | 82.3 |
| LFG-14 | 10:10 | 0.0 | 0.0 | 19.5 | 80.5 |
| LFG-15 | 9:50 | 0.0 | 0.0 | 19.1 | 80.9 |
| LFG-16 | 10:24 | 0.0 | 0.0 | 19.4 | 80.6 |

Landfill Structures

| | | | | | |
|----------------------------------|-------|-----|-----|------|------|
| Gatehouse (ticket office) | 12:46 | 0.0 | 0.1 | 17.9 | 82.0 |
| Gatehouse (supervisor's office) | 12:44 | 0.0 | 0.0 | 17.8 | 82.2 |
| Gatehouse (underneath North end) | 12:12 | 0.0 | 0.1 | 18.8 | 81.1 |
| Gatehouse (underneath East side) | 12:15 | 0.0 | 0.1 | 18.7 | 81.2 |
| Gray Spotter's Shed | 12:17 | 0.0 | 0.1 | 18.8 | 81.1 |
| Tan Spotter's Shed | 12:19 | 0.0 | 0.1 | 18.9 | 81.0 |
| Filter Room | 12:25 | 0.0 | 0.1 | 18.7 | 81.2 |
| Outhouse | 12:23 | 0.0 | 0.1 | 18.8 | 81.1 |
| Tan Metal Storage Shed | 12:32 | 0.0 | 0.1 | 18.7 | 81.2 |
| Gray Storage Shed | 12:30 | 0.0 | 0.1 | 18.8 | 81.1 |
| Compost Facility Admin. Building | 11:59 | 0.0 | 0.1 | 18.7 | 81.2 |
| Public Works Dept. Admin. Office | 9:56 | 0.0 | 0.0 | 19.5 | 80.5 |
| Roads & Fleet Bldg. | 9:59 | 0.0 | 0.0 | 19.5 | 80.5 |
| Fire & Rescue Trailer | 10:14 | 0.0 | 0.0 | 19.5 | 80.5 |
| North Storage Shed | 10:03 | 0.0 | 0.0 | 19.6 | 80.4 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 10:34 | 0.0 | 0.0 | 19.2 | 80.8 |
| LFG-18 | 10:42 | 0.0 | 0.0 | 19.1 | 80.9 |
| LFG-19 | 10:53 | 0.0 | 0.0 | 19.1 | 80.9 |
| LFG-20 | 11:00 | 0.0 | 0.1 | 19.1 | 80.8 |
| LFG-21 | 11:11 | 0.0 | 0.0 | 19.0 | 81.0 |
| LFG-22 | 11:16 | 0.0 | 0.0 | 19.0 | 81.0 |
| LFG-23 | 11:21 | 0.0 | 0.0 | 19.2 | 80.8 |

Ambient Readings

| | | | | | |
|--------------------|-------|-----|-----|------|------|
| Outside Gate House | 12:13 | 0.0 | 0.1 | 18.8 | 81.1 |
| Near LFG- 4 | 13:19 | 0.0 | 0.1 | 18.2 | 81.7 |

Signature _____

Landfill Gas Monitoring Results

Attachment B

Friday, October 23, 2009

Sampler name: Andy Yubas

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole

Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 10/23/09, 0.10 inches

Temp: 55.6 °F

Weather Conditions:

Wind Speed: 2.0 mph

Clear / Light Breeze

Wind Direction: NE

Barometric Pressure: 30.04 (Falling) in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 10/23/09 9:45 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 10:01 | 0.0 | 0.0 | 20.6 | 79.4 |
| LFG-2 | 10:53 | 0.0 | 0.1 | 19.9 | 80.0 |
| LFG-3 | 11:06 | 0.0 | 0.0 | 19.9 | 80.1 |
| LFG-4 | 15:10 | 0.0 | 0.0 | 19.8 | 80.2 |
| LFG-5 | 11:33 | 0.0 | 4.4 | 16.6 | 79.0 |
| LFG-6 | 11:00 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-7 | 15:20 | 0.0 | 0.7 | 19.2 | 80.1 |
| LFG-8 | 15:04 | 0.2 | 0.2 | 19.5 | 80.1 |
| LFG-9A | 12:57 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-9B | 12:20 | 0.0 | 0.0 | 20.0 | 80.0 |
| LFG-10A | 13:45 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-11 | 10:43 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-12 | 14:30 | 0.0 | 0.1 | 19.6 | 80.3 |
| LFG-13 | 14:25 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-14 | 14:17 | 0.0 | 0.0 | 20.0 | 80.0 |
| LFG-15 | 13:52 | 0.0 | 0.0 | 19.6 | 80.4 |
| LFG-16 | 13:17 | 0.0 | 0.0 | 19.9 | 80.1 |

Landfill Structures

| | | | | | |
|----------------------------------|------------------------------|-----|-----|------|------|
| Gatehouse (ticket office) | 10:28 | 0.0 | 0.0 | 20.4 | 79.6 |
| Gatehouse (supervisor's office) | 10:31 | 0.0 | 0.0 | 20.3 | 79.7 |
| Gatehouse (underneath North end) | 10:23 | 0.0 | 0.0 | 20.4 | 79.6 |
| Gatehouse (underneath East side) | 10:25 | 0.0 | 0.0 | 20.4 | 79.6 |
| Gray Spotter's Shed | <i>Shed has been removed</i> | | | | |
| Tan Spotter's Shed | 10:07 | 0.0 | 0.0 | 20.6 | 79.4 |
| Filter Room | 10:14 | 0.0 | 0.0 | 20.5 | 79.5 |
| Outhouse | 10:12 | 0.0 | 0.0 | 20.5 | 79.5 |
| Tan Metal Storage Shed | 10:19 | 0.0 | 0.0 | 20.4 | 79.6 |
| Gray Storage Shed | 10:16 | 0.0 | 0.0 | 20.5 | 79.5 |
| Compost Facility Admin. Building | 9:52 | 0.0 | 0.0 | 20.6 | 79.4 |
| Public Works Dept. Admin. Office | 14:01 | 0.0 | 0.0 | 19.8 | 80.2 |
| Roads & Fleet Bldg. | 14:08 | 0.0 | 0.0 | 20.1 | 79.9 |
| Fire & Rescue Trailer | 14:12 | 0.0 | 0.0 | 20.2 | 79.8 |
| North Storage Shed | 14:05 | 0.0 | 0.0 | 19.9 | 80.1 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 13:38 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-18 | 13:13 | 0.0 | 0.0 | 19.8 | 80.2 |
| LFG-19 | 13:04 | 0.0 | 0.0 | 19.8 | 80.2 |
| LFG-20 | 12:51 | 0.0 | 0.0 | 20.0 | 80.0 |
| LFG-21 | 12:46 | 0.0 | 0.0 | 20.0 | 80.0 |
| LFG-22 | 12:41 | 0.0 | 0.0 | 20.0 | 80.0 |
| LFG-23 | 12:26 | 0.0 | 0.0 | 19.9 | 80.1 |

Ambient Readings

| | | | | | |
|--------------------|-------|-----|-----|------|------|
| Outside Gate House | 9:49 | 0.0 | 0.0 | 20.4 | 79.6 |
| Near LFG- 4 | 15:15 | 0.0 | 0.0 | 20.0 | 80.0 |

Signature _____

Landfill Gas Monitoring Results

Attachment B

Tuesday, February 02, 2010

Sampler name: Don Gray

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole

Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 1-22-10; 0.18 inches

Temp: 32 °F

Wind Speed: 10.0 mph

Wind Direction: NNE

Barometric Pressure: 30.10 in Hg

Weather Conditions:

Light Clouds, Windy

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 2/2/10 9:30 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 11:39 | 0.0 | 0.0 | 20.8 | 79.2 |
| LFG-2 | 11:30 | 0.0 | 0.2 | 20.6 | 79.2 |
| LFG-3 | 11:20 | 0.0 | 0.1 | 20.8 | 79.1 |
| LFG-4 | 12:44 | 0.0 | 0.3 | 20.1 | 79.6 |
| LFG-5 | 11:14 | 0.0 | 4.4 | 17.0 | 78.6 |
| LFG-6 | 11:25 | 0.0 | 0.5 | 20.3 | 79.2 |
| LFG-7 | 12:48 | 0.0 | 0.8 | 19.7 | 79.5 |
| LFG-8 | 12:37 | 0.2 | 0.6 | 19.9 | 79.3 |
| LFG-9A | 11:07 | 0.0 | 0.1 | 20.8 | 79.1 |
| LFG-9B | 11:00 | 0.0 | 0.1 | 20.7 | 79.2 |
| LFG-10A | 10:14 | 0.0 | 0.1 | 20.6 | 79.3 |
| LFG-11 | 12:15 | 0.0 | 0.7 | 19.9 | 79.4 |
| LFG-12 | 12:26 | 0.0 | 0.3 | 20.4 | 79.3 |
| LFG-13 | 12:19 | 0.0 | 0.4 | 20.2 | 79.4 |
| LFG-14 | 12:55 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-15 | 9:53 | 0.0 | 0.2 | 20.7 | 79.1 |
| LFG-16 | 10:20 | 0.0 | 0.1 | 20.8 | 79.1 |

Landfill Structures

| | | | | | |
|----------------------------------|-------|-----|-----|------|------|
| Gatehouse (ticket office) | 11:44 | 0.0 | 0.0 | 21.0 | 79.0 |
| Gatehouse (supervisor's office) | 11:46 | 0.0 | 0.0 | 21.0 | 79.0 |
| Gatehouse (underneath North end) | 11:51 | 0.0 | 0.0 | 21.0 | 79.0 |
| Gatehouse (underneath East side) | 11:53 | 0.0 | 0.0 | 21.0 | 79.0 |
| Gray Spotter's Shed | 11:56 | 0.0 | 0.0 | 21.0 | 79.0 |
| Tan Spotter's Shed | 11:57 | 0.0 | 0.1 | 20.9 | 79.0 |
| Filter Room | 12:01 | 0.0 | 0.0 | 21.0 | 79.0 |
| Outhouse | 11:59 | 0.0 | 0.0 | 20.9 | 79.1 |
| Tan Metal Storage Shed | 12:04 | 0.0 | 0.0 | 21.0 | 79.0 |
| Gray Storage Shed | 12:03 | 0.0 | 0.0 | 21.0 | 79.0 |
| Compost Facility Admin. Building | 11:34 | 0.0 | 0.0 | 21.0 | 79.0 |
| Public Works Dept. Admin. Office | 9:58 | 0.0 | 0.1 | 20.8 | 79.1 |
| Roads & Fleet Bldg. | 10:04 | 0.0 | 0.0 | 21.0 | 79.0 |
| Fire & Rescue Trailer | 10:10 | 0.0 | 0.0 | 21.0 | 79.0 |
| North Storage Shed | 10:01 | 0.0 | 0.0 | 20.9 | 79.1 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 10:26 | 0.0 | 0.0 | 20.8 | 79.2 |
| LFG-18 | 10:31 | 0.0 | 0.0 | 20.8 | 79.2 |
| LFG-19 | 10:39 | 0.0 | 0.0 | 20.7 | 79.3 |
| LFG-20 | 10:45 | 0.0 | 0.0 | 20.8 | 79.2 |
| LFG-21 | 10:48 | 0.0 | 0.0 | 20.9 | 79.1 |
| LFG-22 | 10:52 | 0.0 | 0.0 | 20.9 | 79.1 |
| LFG-23 | 10:59 | 0.0 | 0.0 | 21.0 | 79.0 |

Ambient Readings

| | | | | | |
|--------------------|-------|-----|-----|------|------|
| Outside Gate House | 11:54 | 0.0 | 0.0 | 21.0 | 79.0 |
| Near LFG- 15 | 9:50 | 0.0 | 0.0 | 20.9 | 79.1 |

Signature _____

Landfill Gas Monitoring Results

Attachment B

Thursday, April 22, 2010

Sampler name: Don Gray

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole

Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 4-22-10 / 0.01 inches

Temp: 44.6 °F

Weather Conditions:

Wind Speed: 6.9 mph

Scattered Clouds

Wind Direction: WSW

Barometric Pressure: 29.96 ↓ in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 4/22/10 9:00 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 11:24 | 0.0 | 0.0 | 20.6 | 79.4 |
| LFG-2 | 11:00 | 0.0 | 0.3 | 20.3 | 79.4 |
| LFG-3 | 10:53 | 0.0 | 0.3 | 20.2 | 79.5 |
| LFG-4 | 12:25 | 0.1 | 0.6 | 19.6 | 79.7 |
| LFG-5 | 10:46 | 0.3 | 5.2 | 15.3 | 79.2 |
| LFG-6 | 10:56 | 0.0 | 0.5 | 19.4 | 80.1 |
| LFG-7 | 12:20 | 0.0 | 1.3 | 19.0 | 79.7 |
| LFG-8 | 12:30 | 0.4 | 0.9 | 19.4 | 79.3 |
| LFG-9A | 10:39 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-9B | 10:33 | 0.0 | 0.0 | 20.5 | 79.5 |
| LFG-10A | 11:38 | 0.0 | 0.3 | 19.3 | 80.4 |
| LFG-11 | 11:10 | 0.0 | 0.7 | 19.6 | 79.7 |
| LFG-12 | 11:29 | 0.0 | 0.2 | 20.3 | 79.5 |
| LFG-13 | 12:14 | 0.0 | 0.2 | 20.2 | 79.6 |
| LFG-14 | 9:43 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-15 | 9:38 | 0.0 | 0.1 | 20.4 | 79.5 |
| LFG-16 | 9:57 | 0.0 | 0.0 | 20.3 | 79.7 |

Landfill Structures

| | | | | | |
|----------------------------------|-------|-----|-----|------|------|
| Scalehouse (ticket office) | 12:03 | 0.0 | 0.0 | 20.5 | 79.5 |
| Scalehouse (supervisor's office) | 12:04 | 0.0 | 0.0 | 20.5 | 79.5 |
| Employee Lounge (underneath) | 11:57 | 0.0 | 0.0 | 20.4 | 79.6 |
| Gray Spotter's Shed | 11:55 | 0.0 | 0.0 | 20.4 | 79.6 |
| Tan Spotter's Shed | 11:07 | 0.0 | 0.0 | 20.7 | 79.3 |
| Filter Room | 11:14 | 0.0 | 0.0 | 20.7 | 79.3 |
| Portable Toilet | 11:59 | 0.0 | 0.0 | 20.5 | 79.5 |
| Tan Metal Storage Shed | 11:18 | 0.0 | 0.0 | 20.8 | 79.2 |
| Gray Storage Shed | 11:16 | 0.0 | 0.0 | 20.8 | 79.2 |
| Compost Facility Admin. Building | 11:04 | 0.0 | 0.0 | 20.7 | 79.3 |
| Public Works Dept. Admin. Office | 11:41 | 0.0 | 0.0 | 20.4 | 79.6 |
| Roads & Fleet Bldg. | 11:44 | 0.0 | 0.0 | 20.4 | 79.6 |
| Fire & Rescue Trailer | 11:50 | 0.0 | 0.0 | 20.4 | 79.6 |
| North Storage Shed | 9:48 | 0.0 | 0.0 | 20.4 | 79.6 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 10:02 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-18 | 10:06 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-19 | 10:11 | 0.0 | 0.1 | 20.4 | 79.5 |
| LFG-20 | 10:16 | 0.0 | 0.0 | 20.6 | 79.4 |
| LFG-21 | 10:19 | 0.0 | 0.0 | 20.6 | 79.4 |
| LFG-22 | 10:23 | 0.0 | 0.1 | 20.6 | 79.3 |
| LFG-23 | 10:27 | 0.0 | 0.0 | 20.6 | 79.4 |

Ambient Readings

| | | | | | |
|-------------|-------|-----|-----|------|------|
| Near LFG 15 | 9:36 | 0.0 | 0.0 | 20.8 | 79.2 |
| Near LFG 8 | 12:32 | 0.0 | 0.0 | 20.5 | 79.5 |

Signature _____

Landfill Gas Monitoring Results

Attachment B

Tuesday, August 17, 2010

Sampler name: Sarah F. Schnell

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole

Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 8/17; 0.2 inches

Temp: 77 °F

Weather Conditions:

Wind Speed: 6.9 mph

Scattered Clouds

Wind Direction: W

Barometric Pressure: 30.00 (S) in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 8/17/10 9:50 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 11:57 | 0.0 | 0.0 | 19.9 | 80.1 |
| LFG-2 | 11:43 | 0.0 | 0.1 | 19.3 | 80.6 |
| LFG-3 | 11:31 | 0.0 | 0.0 | 19.4 | 80.6 |
| LFG-4 | 12:49 | 0.0 | 0.0 | 19.5 | 80.5 |
| LFG-5 | 11:25 | 0.0 | 2.5 | 16.9 | 80.6 |
| LFG-6 | 11:37 | 0.0 | 0.0 | 19.4 | 80.6 |
| LFG-7 | 12:45 | 0.0 | 0.4 | 18.9 | 80.7 |
| LFG-8 | 12:54 | 0.0 | 0.1 | 19.2 | 80.7 |
| LFG-9A | Decommissioned 5/10 | | | | |
| LFG-9B | 11:16 | 0.0 | 0.0 | 19.8 | 80.2 |
| LFG-10A | 12:17 | 0.0 | 0.0 | 19.6 | 80.4 |
| LFG-11 | 12:04 | 0.0 | 1.2 | 17.8 | 81.0 |
| LFG-12 | 12:36 | 0.0 | 0.0 | 19.4 | 80.6 |
| LFG-13 | 12:32 | 0.0 | 0.1 | 19.3 | 80.6 |
| LFG-14 | 12:22 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-15 | 10:30 | 0.0 | 0.1 | 19.4 | 80.5 |
| LFG-16 | 10:39 | 0.0 | 0.0 | 19.6 | 80.4 |

Landfill Structures

| | | | | | |
|---------------------------------------|-------|-----|-----|------|------|
| Scalehouse (ticket office) | 10:02 | 0.0 | 0.0 | 19.9 | 80.1 |
| Scalehouse (supervisor's office) | 10:04 | 0.0 | 0.0 | 19.9 | 80.1 |
| Employee Lounge (underneath) | 10:00 | 0.0 | 0.0 | 19.8 | 80.2 |
| Gray Spotter's Shed | 10:07 | 0.0 | 0.0 | 19.8 | 80.2 |
| Tan Spotter's Shed | 12:07 | 0.0 | 0.0 | 19.9 | 80.1 |
| Filter Room | 12:09 | 0.0 | 0.0 | 19.9 | 80.1 |
| Portable Toilet | 10:11 | 0.0 | 0.0 | 19.9 | 80.1 |
| Tan Metal Storage Shed | 12:13 | 0.0 | 0.0 | 19.9 | 80.1 |
| Gray Storage Shed | 12:11 | 0.0 | 0.0 | 19.8 | 80.2 |
| Composting Facilities Admin. Building | 11:50 | 0.0 | 0.0 | 19.8 | 80.2 |
| Public Works Dept. Admin. Office | 10:18 | 0.0 | 0.0 | 19.8 | 80.2 |
| Roads & Fleet Maintenance Building | 10:23 | 0.0 | 0.0 | 19.8 | 80.2 |
| Fire & Rescue Trailer | 10:27 | 0.0 | 0.0 | 19.8 | 80.2 |
| North Storage Shed | 10:20 | 0.0 | 0.0 | 19.8 | 80.2 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 10:45 | 0.0 | 0.0 | 19.9 | 80.1 |
| LFG-18 | 10:51 | 0.0 | 0.0 | 19.8 | 80.2 |
| LFG-19 | 10:55 | 0.0 | 0.0 | 19.8 | 80.2 |
| LFG-20 | 11:01 | 0.0 | 0.0 | 19.8 | 80.2 |
| LFG-21 | 11:04 | 0.0 | 0.0 | 19.8 | 80.2 |
| LFG-22 | 11:07 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-23 | 11:12 | 0.0 | 0.0 | 19.8 | 80.2 |

Ambient Readings

| | | | | | |
|-------------|-------|-----|-----|------|------|
| Near LFG-15 | 9:55 | 0.0 | 0.0 | 19.7 | 80.3 |
| Near LFG-8 | 12:47 | 0.0 | 0.0 | 19.6 | 80.4 |

Signature _____

Landfill Gas Monitoring Results

Attachment B

Tuesday, October 12, 2010

Sampler name: Don Gray

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole

Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 10-5-10 0.03 inches

Temp: 52 °F

Weather Conditions:

Wind Speed: Calm mph

Clear and calm

Wind Direction: N/A

Barometric Pressure: 30.06 ↑ in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 10/12/10 9:00 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 11:39 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-2 | 11:32 | 0.0 | 0.1 | 20.0 | 79.9 |
| LFG-3 | 11:23 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-4 | 9:40 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-5 | 11:18 | 0.0 | 3.2 | 17.3 | 79.5 |
| LFG-6 | 11:28 | 0.0 | 0.1 | 19.9 | 80.0 |
| LFG-7 | 9:44 | 0.0 | 0.9 | 19.5 | 79.6 |
| LFG-8 | 9:36 | 0.1 | 0.5 | 19.7 | 79.7 |
| LFG-9A | Decommissioned 5/10 | | | | |
| LFG-9B | 11:13 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-10A | 10:17 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-11 | 11:46 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-12 | 12:01 | 0.0 | 0.1 | 19.8 | 80.1 |
| LFG-13 | 11:57 | 0.0 | 0.2 | 19.9 | 79.9 |
| LFG-14 | 9:56 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-15 | 9:53 | 0.0 | 0.2 | 19.9 | 79.9 |
| LFG-16 | 10:37 | 0.0 | 0.0 | 20.4 | 79.6 |

Landfill Structures

| | | | | | |
|---------------------------------------|-------|-----|-----|------|------|
| Scalehouse (ticket office) | 10:21 | 0.0 | 0.0 | 20.3 | 79.7 |
| Scalehouse (supervisor's office) | 10:23 | 0.0 | 0.0 | 20.3 | 79.7 |
| Employee Lounge (underneath) | 10:26 | 0.0 | 0.0 | 20.3 | 79.7 |
| Gray Spotter's Shed | 10:29 | 0.0 | 0.0 | 20.3 | 79.7 |
| Tan Spotter's Shed | 11:43 | 0.0 | 0.0 | 20.4 | 79.6 |
| Filter Room | 11:49 | 0.0 | 0.0 | 20.3 | 79.7 |
| Portable Toilet | 10:31 | 0.0 | 0.0 | 20.3 | 79.7 |
| Tan Metal Storage Shed | 11:53 | 0.0 | 0.0 | 20.3 | 79.7 |
| Gray Storage Shed | 11:51 | 0.0 | 0.0 | 20.3 | 79.7 |
| Composting Facilities Admin. Building | 11:36 | 0.0 | 0.0 | 20.3 | 79.7 |
| Public Works Dept. Admin. Office | 10:01 | 0.0 | 0.0 | 20.4 | 79.6 |
| Roads & Fleet Maintenance Building | 10:04 | 0.0 | 0.0 | 20.4 | 79.6 |
| Fire & Rescue Trailer | 10:12 | 0.0 | 0.0 | 20.5 | 79.5 |
| North Storage Shed | 10:07 | 0.0 | 0.0 | 20.5 | 79.5 |

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 10:43 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-18 | 10:47 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-19 | 10:52 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-20 | 10:56 | 0.0 | 0.0 | 20.2 | 79.8 |
| LFG-21 | 11:00 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-22 | 11:04 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-23 | 11:08 | 0.0 | 0.0 | 20.4 | 79.6 |

Ambient Readings

| | | | | | |
|-------------|-------|-----|-----|------|------|
| Near LFG 8 | 9:34 | 0.0 | 0.0 | 20.1 | 79.9 |
| Near LFG 23 | 11:09 | 0.0 | 0.0 | 20.4 | 79.6 |

Signature _____

Landfill Gas Monitoring Results

Attachment B

Thursday, February 24, 2011

Sampler name: Andy Yuhas

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole

Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 02-01-2011, 0.04 inches

Temp: 46 °F

Wind Speed: 17.0 mph

Wind Direction: W

Barometric Pressure: 29.93 ↓ in Hg

Weather Conditions:

pt cloudy, windy (10-15 mph)

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 02-24-2011, 10:00:00 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 12:10 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-2 | 12:49 | 0.0 | 0.2 | 19.8 | 80.0 |
| LFG-3 | 13:04 | 0.0 | 0.0 | 19.9 | 80.1 |
| LFG-4 | 15:48 | 0.1 | 0.5 | 19.3 | 80.1 |
| LFG-5 | 13:15 | 0.0 | 3.4 | 16.9 | 79.7 |
| LFG-6 | 12:57 | 0.0 | 0.2 | 19.5 | 80.3 |
| LFG-7 | 15:40 | 0.0 | 0.8 | 19.0 | 80.2 |
| LFG-8 | 15:57 | 0.2 | 0.5 | 19.6 | 79.7 |
| LFG-9B | 13:21 | 0.0 | 0.0 | 20.0 | 80.0 |
| LFG-10A | 12:01 | 0.0 | 0.1 | 20.2 | 79.7 |
| LFG-11 | 12:38 | 0.0 | 1.0 | 19.1 | 79.9 |
| LFG-12 | 15:07 | 0.0 | 0.2 | 19.6 | 80.2 |
| LFG-13 | 15:32 | 0.0 | 0.2 | 19.3 | 80.5 |
| LFG-14 | 11:50 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-15 | 11:20 | 0.0 | 0.1 | 20.1 | 79.8 |
| LFG-16 | 14:16 | 0.0 | 0.0 | 20.1 | 79.9 |

Landfill Structures

| | | | | | |
|---------------------------------------|----------------------------|-----|-----|------|------|
| Scalehouse (ticket office) | 14:27 | 0.0 | 0.0 | 20.1 | 79.9 |
| Scalehouse (supervisor's office) | 14:30 | 0.0 | 0.0 | 20.1 | 79.9 |
| Employee Lounge (underneath) | 11:06 | 0.0 | 0.0 | 19.6 | 80.4 |
| Grey Spotter's Shed | 11:11 | 0.0 | 0.0 | 20.0 | 80.0 |
| Tan Spotter's Shed | Building removed from site | | | | |
| Filter Room | Building removed from site | | | | |
| Portable Toilet | 14:21 | 0.0 | 0.0 | 20.2 | 79.8 |
| Tan Metal Storage Shed | Building removed from site | | | | |
| Grey Storage Shed | 12:30 | 0.0 | 0.0 | 20.3 | 79.7 |
| Composting Facilities Admin. Building | 12:15 | 0.0 | 0.0 | 20.2 | 79.8 |
| Public Works Dept. Admin. Office | 11:27 | 0.0 | 0.0 | 20.5 | 79.5 |
| Roads & Fleet Maintenance Building | 11:36 | 0.0 | 0.0 | 20.3 | 79.7 |
| Fire & Rescue Trailer | 11:40 | 0.0 | 0.0 | 20.3 | 79.7 |
| North Storage Shed | 11:31 | 0.0 | 0.0 | 20.5 | 79.5 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 14:08 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-18 | 14:01 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-19 | 13:54 | 0.0 | 0.0 | 20.2 | 79.8 |
| LFG-20 | 13:49 | 0.0 | 0.0 | 20.2 | 79.8 |
| LFG-21 | 13:43 | 0.0 | 0.0 | 20.2 | 79.8 |
| LFG-22 | 13:38 | 0.0 | 0.0 | 20.2 | 79.8 |
| LFG-23 | 13:33 | 0.0 | 0.0 | 20.2 | 79.8 |

Ambient Readings

| | | | | | |
|------------|-------|-----|-----|------|------|
| Scalehouse | 11:00 | 0.0 | 0.0 | 19.5 | 80.5 |
| Near LFG-8 | 15:59 | 0.0 | 0.0 | 20.2 | 79.8 |

Signature _____

Landfill Gas Monitoring Results

Attachment B

Wednesday, April 13, 2011

Sampler name: Sarah Schnell

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole

Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 04/07/11; 0.03" inches

Temp: 62 °F

Wind Speed: 16 mph

Wind Direction: SW

Barometric Pressure: 30.04 ↓ in Hg

Weather Conditions:

pt cloudy, windy (10-15 mph)

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 04-13-2011, 09:00:00 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 10:22 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-2 | 10:40 | 0.0 | 0.2 | 19.2 | 80.6 |
| LFG-3 | 10:50 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-4 | 12:49 | 0.0 | 0.0 | 19.1 | 80.9 |
| LFG-5 | 11:10 | 0.1 | 3.0 | 16.4 | 80.5 |
| LFG-6 | 10:45 | 0.0 | 0.2 | 18.9 | 80.9 |
| LFG-7 | 12:45 | 0.0 | 0.6 | 18.0 | 81.4 |
| LFG-8 | 12:58 | 0.2 | 0.3 | 18.8 | 80.7 |
| LFG-9B | 11:19 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-10A | 10:08 | 0.0 | 0.1 | 19.4 | 80.5 |
| LFG-11 | 10:28 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-12 | 10:17 | 0.0 | 0.2 | 19.0 | 80.8 |
| LFG-13 | 12:36 | 0.0 | 0.1 | 18.5 | 81.4 |
| LFG-14 | 9:57 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-15 | 9:51 | 0.0 | 0.1 | 19.2 | 80.7 |
| LFG-16 | 9:30 | 0.0 | 0.0 | 19.5 | 80.5 |

Landfill Structures

| | | | | | |
|---------------------------------------|-------|-----|-----|------|------|
| Scalehouse (ticket office) | 9:09 | 0.0 | 0.1 | 19.6 | 80.3 |
| Scalehouse (supervisor's office) | 9:10 | 0.0 | 0.0 | 19.5 | 80.5 |
| Employee Lounge (underneath) | 9:13 | 0.0 | 0.0 | 19.6 | 80.4 |
| Grey Spotter's Shed | 9:16 | 0.0 | 0.0 | 19.6 | 80.4 |
| Portable Toilet | 9:23 | 0.0 | 0.0 | 19.5 | 80.5 |
| Grey Storage Shed | 9:20 | 0.0 | 0.0 | 19.5 | 80.5 |
| Composting Facilities Admin. Building | 10:33 | 0.0 | 0.0 | 19.3 | 80.7 |
| Public Works Dept. Admin. Office | 9:44 | 0.0 | 0.0 | 19.6 | 80.4 |
| Roads & Fleet Maintenance Building | 9:37 | 0.0 | 0.0 | 19.6 | 80.4 |
| Fire & Rescue Trailer | 10:01 | 0.0 | 0.0 | 19.5 | 80.5 |
| North Storage Shed | 9:42 | 0.0 | 0.0 | 19.5 | 80.5 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 12:00 | 0.0 | 0.0 | 19.2 | 80.8 |
| LFG-18 | 11:55 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-19 | 11:48 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-20 | 11:42 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-21 | 11:38 | 0.0 | 0.0 | 19.4 | 80.6 |
| LFG-22 | 11:33 | 0.0 | 0.0 | 19.5 | 80.5 |
| LFG-23 | 11:28 | 0.0 | 0.0 | 19.5 | 80.5 |

Ambient Readings

| | | | | | |
|------------|-------|-----|-----|------|------|
| Scalehouse | 9:05 | 0.0 | 0.1 | 19.4 | 80.5 |
| Near LFG-8 | 13:00 | 0.0 | 0.0 | 19.5 | 80.5 |

Signature _____

Landfill Gas Monitoring Results

Attachment B

Thursday, September 1, 2011

Sampler name: Andy Yuhas/Jerome Curley

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole

Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 8/17/11 0.16 inches

Temp: 79 °F

Weather Conditions:

Wind Speed: Calm mph

Hot, partly cloudy, calm

Wind Direction: Calm

Barometric Pressure: 30.2 Steady in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 9/1/11 0840

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 10:00 | 0.0 | 0.0 | 19.9 | 80.1 |
| LFG-2 | 10:15 | 0.0 | 0.1 | 19.6 | 80.3 |
| LFG-3 | 10:21 | 0.0 | 0.0 | 19.9 | 80.1 |
| LFG-4 | 12:56 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-5 | 13:24 | 0.0 | 2.7 | 16.3 | 81.0 |
| LFG-6 | 10:36 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-7 | 13:08 | 0.0 | 0.4 | 18.5 | 81.1 |
| LFG-8 | 12:49 | 0.1 | 0.2 | 19.2 | 80.5 |
| LFG-9B | 10:48 | 0.0 | 0.0 | 19.6 | 80.4 |
| LFG-10A | 9:24 | 0.0 | 0.0 | 20.2 | 79.8 |
| LFG-11 | 10:41 | 0.0 | 0.0 | 19.9 | 80.1 |
| LFG-12 | 9:51 | 0.0 | 0.1 | 19.8 | 80.1 |
| LFG-13 | 9:16 | 0.0 | 0.2 | 19.9 | 79.9 |
| LFG-14 | 9:09 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-15 | 8:49 | 0.0 | 0.1 | 19.7 | 80.2 |
| LFG-16 | 12:39 | 0.0 | 0.0 | 19.5 | 80.5 |

Landfill Structures

| | | | | | |
|---------------------------------------|-------|-----|-----|------|------|
| Scalehouse (ticket office) | 15:19 | 0.0 | 0.0 | 20.1 | 79.9 |
| Scalehouse (supervisor's office) | 15:16 | 0.0 | 0.0 | 20.8 | 79.2 |
| Employee Lounge (underneath) | 14:44 | 0.0 | 0.0 | 20.6 | 79.4 |
| Grey Spotter's Shed | 14:54 | 0.0 | 0.0 | 20.4 | 79.6 |
| Portable Toilet | 14:47 | 0.0 | 0.0 | 20.5 | 79.5 |
| Grey Storage Shed | 14:51 | 0.0 | 0.0 | 20.5 | 79.5 |
| Composting Facilities Admin. Building | 10:06 | 0.0 | 0.0 | 19.8 | 80.2 |
| Public Works Dept. Admin. Office | 9:40 | 0.0 | 0.0 | 20.1 | 79.9 |
| Roads & Fleet Maintenance Building | 9:37 | 0.0 | 0.0 | 20.0 | 80.0 |
| Fire & Rescue Trailer | 9:31 | 0.0 | 0.0 | 20.0 | 80.0 |
| North Storage Shed | 15:00 | 0.0 | 0.0 | 20.2 | 79.8 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 12:32 | 0.0 | 0.0 | 19.0 | 81.0 |
| LFG-18 | 12:25 | 0.0 | 0.0 | 18.9 | 81.1 |
| LFG-19 | 12:18 | 0.0 | 0.0 | 19.2 | 80.8 |
| LFG-20 | 12:12 | 0.0 | 0.0 | 19.2 | 80.8 |
| LFG-21 | 12:06 | 0.0 | 0.0 | 19.4 | 80.6 |
| LFG-22 | 12:02 | 0.0 | 0.7 | 18.9 | 80.4 |
| LFG-23 | 11:56 | 0.0 | 0.0 | 19.5 | 80.5 |

Ambient Readings

| | | | | | |
|---------------|-------|-----|-----|------|------|
| at LFG-15 | 8:45 | 0.0 | 0.0 | 20.1 | 79.9 |
| at Scalehouse | 15:28 | 0.0 | 0.0 | 20.0 | 80.0 |

Signature _____

Landfill Gas Monitoring Results

Attachment B

Tuesday, September 11, 2011

Sampler name: Michael Hermann/Jerome Curley **Landfill name:** Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole **Probe Depth:** 30' or 24"-36"

Weather Information

10/7/11 0.54 inches

Date and amount of last precipitation: 10/8/11 0.07 inches

Temp: 65 °F

Wind Speed: 0-8 mph

Wind Direction: S

Barometric Pressure: 24.64 ↑ in Hg

Weather Conditions:

cool, clear, slightly breezy

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 10/10/11 10:40 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 11:47 | 0.0 | 0.1 | 19.3 | 80.6 |
| LFG-2 | 11:29 | 0.0 | 0.5 | 19.0 | 80.5 |
| LFG-3 | 11:12 | 0.0 | 1.3 | 18.6 | 80.1 |
| LFG-4 | 12:34 | 0.2 | 0.7 | 18.7 | 80.4 |
| LFG-5 | 10:52 | 0.1 | 4.9 | 15.1 | 79.9 |
| LFG-6 | 11:22 | 0.0 | 0.5 | 18.7 | 80.8 |
| LFG-7 | 12:29 | 0.0 | 1.0 | 18.6 | 80.4 |
| LFG-8 | 12:47 | 0.2 | 0.5 | 19.0 | 80.3 |
| LFG-9B | 9:57 | 0.0 | 0.3 | 18.3 | 81.4 |
| LFG-10A | 9:12 | 0.0 | 0.5 | 15.1 | 84.4 |
| LFG-11 | 11:41 | 0.0 | 1.5 | 17.7 | 80.8 |
| LFG-12 | 11:53 | 0.0 | 0.2 | 19.1 | 80.7 |
| LFG-13 | 11:58 | 0.0 | 0.5 | 18.8 | 80.7 |
| LFG-14 | 8:48 | 0.0 | 0.3 | 18.8 | 80.9 |
| LFG-15 | 8:36 | 0.0 | 0.4 | 18.7 | 80.9 |
| LFG-16 | 9:19 | 0.0 | 0.4 | 18.8 | 80.8 |

Landfill Structures

| | | | | | |
|---------------------------------------|-------|-----|-----|------|------|
| Scalehouse (ticket office) | 8:20 | 0.0 | 0.2 | 19.7 | 80.1 |
| Scalehouse (supervisor's office) | 8:22 | 0.0 | 0.2 | 19.6 | 80.2 |
| Employee Lounge (underneath) | 8:25 | 0.0 | 0.1 | 19.5 | 80.4 |
| Grey Spotter's Shed | 8:32 | 0.0 | 0.1 | 19.3 | 80.6 |
| Portable Toilet | 9:23 | 0.0 | 0.0 | 19.0 | 81.0 |
| Grey Storage Shed | 9:27 | 0.0 | 0.0 | 19.4 | 80.6 |
| Composting Facilities Admin. Building | 11:35 | 0.0 | 0.0 | 19.5 | 80.5 |
| Public Works Dept. Admin. Office | 8:44 | 0.0 | 0.1 | 19.1 | 80.8 |
| Roads & Fleet Maintenance Building | 9:06 | 0.0 | 0.1 | 19.1 | 80.8 |
| Fire & Rescue Trailer | 8:54 | 0.0 | 0.1 | 19.0 | 80.9 |
| North Storage Shed | 9:02 | 0.0 | 0.1 | 19.1 | 80.8 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 10:40 | 0.0 | 0.1 | 19.6 | 80.3 |
| LFG-18 | 10:35 | 0.0 | 0.0 | 19.5 | 80.5 |
| LFG-19 | 10:32 | 0.0 | 0.1 | 19.4 | 80.5 |
| LFG-20 | 10:24 | 0.0 | 0.1 | 19.4 | 80.5 |
| LFG-21 | 10:21 | 0.0 | 0.0 | 19.4 | 80.6 |
| LFG-22 | 10:17 | 0.0 | 0.3 | 18.9 | 80.8 |
| LFG-23 | 10:04 | 0.0 | 0.0 | 19.0 | 81.0 |

Ambient Readings

| | | | | | |
|-----------------------------|-------|-----|-----|------|------|
| at Scalehouse | 8:08 | 0.0 | 0.1 | 19.9 | 80.0 |
| West of composting facility | 12:04 | 0.0 | 0.0 | 19.6 | 80.4 |

Signature _____

Landfill Gas Monitoring Results

Attachment B

Wednesday, February 02, 2012

Sampler name: Andy Yuhas

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole

Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 2/15/12, 0.03 inches

Temp: 50 °F

Wind Speed: 10 mph

Wind Direction: NW

Barometric Pressure: 30.08 ↓ in Hg

Weather Conditions:

Clear, Windy

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 2/22/12, 08:27

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-1 | 13:21 | 0.0 | 0.2 | 19.4 | 80.4 |
| LFG-2 | 13:24 | 0.0 | 0.2 | 19.4 | 80.4 |
| LFG-3 | 11:13 | 0.0 | 2.2 | 17.5 | 80.3 |
| LFG-4 | 11:53 | 0.2 | 0.8 | 18.8 | 80.2 |
| LFG-5 | 10:27 | 0.0 | 8.8 | 11.4 | 79.8 |
| LFG-6 | 13:42 | 0.0 | 0.3 | 19.3 | 80.4 |
| LFG-7 | 12:32 | 0.0 | 0.7 | 18.9 | 80.4 |
| LFG-8 | 12:27 | 0.5 | 1.2 | 18.3 | 80.0 |
| LFG-9B | 9:48 | 0.0 | 0.2 | 20.2 | 79.6 |
| LFG-10A | 13:05 | 0.0 | 0.1 | 19.4 | 80.5 |
| LFG-11 | 13:35 | 0.0 | 1.1 | 18.9 | 80.0 |
| LFG-12 | 13:11 | 0.0 | 0.2 | 19.5 | 80.3 |
| LFG-13 | 13:15 | 0.0 | 0.2 | 19.4 | 80.4 |
| LFG-14 | 12:39 | 0.0 | 0.0 | 19.4 | 80.6 |
| LFG-15 | 9:10 | 0.0 | 0.2 | 19.8 | 80.0 |
| LFG-16 | 14:43 | 0.0 | 0.2 | 19.3 | 80.5 |

Landfill Structures

| | | | | | |
|---------------------------------------|-------|-----|-----|------|------|
| Scalehouse (ticket office) | 15:02 | 0.0 | 0.0 | 20.1 | 79.9 |
| Scalehouse (supervisor's office) | 14:58 | 0.0 | 0.0 | 20.1 | 79.9 |
| Employee Lounge (underneath) | 11:23 | 0.0 | 0.0 | 20.0 | 80.0 |
| Grey Spotter's Shed | 14:50 | 0.0 | 0.0 | 19.9 | 80.1 |
| Portable Toilet | 13:01 | 0.0 | 0.0 | 19.8 | 80.2 |
| Grey Storage Shed | 14:54 | 0.0 | 0.0 | 20.0 | 80.0 |
| Composting Facilities Admin. Building | 11:18 | 0.0 | 0.0 | 19.9 | 80.1 |
| Public Works Dept. Admin. Office | 12:55 | 0.0 | 0.0 | 19.9 | 80.1 |
| Roads & Fleet Maintenance Building | 12:50 | 0.0 | 0.0 | 19.8 | 80.2 |
| Fire & Rescue Trailer | 12:47 | 0.0 | 0.0 | 19.8 | 80.2 |
| North Storage Shed | 12:42 | 0.0 | 0.0 | 19.8 | 80.2 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 14:37 | 0.0 | 0.0 | 19.5 | 80.5 |
| LFG-18 | 14:28 | 0.0 | 0.0 | 19.6 | 80.4 |
| LFG-19 | 14:22 | 0.0 | 0.0 | 19.5 | 80.5 |
| LFG-20 | 14:13 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-21 | 14:07 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-22 | 14:00 | 0.0 | 0.1 | 19.8 | 80.1 |
| LFG-23 | 13:55 | 0.0 | 0.0 | 19.8 | 80.2 |

Ambient Readings

| | | | | | |
|---------------|-------|-----|-----|------|------|
| at MW-5 | 8:30 | 0.0 | 0.0 | 19.8 | 80.2 |
| at Scalehouse | 15:10 | 0.0 | 0.0 | 21.1 | 78.9 |

Signature _____

Landfill Gas Monitoring Results
Attachment B

Monday, May 21, 2012

Sampler name: Jerome M. Curley

Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole

Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: (4/3/12) 0.21 inches

Temp: 77 °F

Wind Speed: 8 mph

Wind Direction: SE

Barometric Pressure: 30.28 (steady) in Hg

Weather Conditions:

Partly cloudy, mostly sunny

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 5/21/12, 09:00

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-2 | 12:13 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-3 | 14:08 | 0.0 | 0.0 | 20.6 | 79.4 |
| LFG-5 | 14:17 | 0.0 | 1.9 | 18.5 | 79.6 |
| LFG-6 | 12:20 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-7 | 13:49 | 0.0 | 0.2 | 19.7 | 80.1 |
| LFG-8 | 13:44 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-9B | 14:25 | 0.0 | 0.0 | 20.5 | 79.5 |
| LFG-10A | 11:18 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-12 | 12:03 | 0.0 | 0.0 | 20.0 | 80.0 |
| LFG-14 | 10:58 | 0.0 | 0.0 | 19.7 | 80.3 |
| LFG-15 | 10:43 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-16 | 11:29 | 0.0 | 0.0 | 19.9 | 80.1 |

Landfill Structures

| | | | | | |
|---------------------------------------|-------|-----|-----|------|------|
| Scalehouse (ticket office) | 10:20 | 0.0 | 0.0 | 19.7 | 80.3 |
| Scalehouse (supervisor's office) | 10:18 | 0.0 | 0.0 | 19.7 | 80.3 |
| Employee Lounge (underneath) | 10:28 | 0.0 | 0.0 | 19.8 | 80.2 |
| Grey Spotter's Shed | 10:31 | 0.0 | 0.0 | 19.8 | 80.2 |
| Portable Toilet | 11:36 | 0.0 | 0.0 | 20.0 | 80.0 |
| Grey Storage Shed | 10:36 | 0.0 | 0.0 | 19.7 | 80.3 |
| Composting Facilities Admin. Building | 11:55 | 0.0 | 0.0 | 20.2 | 79.8 |
| Public Works Dept. Admin. Office | 10:50 | 0.0 | 0.0 | 19.7 | 80.3 |
| Roads & Fleet Maintenance Building | 11:07 | 0.0 | 0.0 | 19.7 | 80.3 |
| Fire & Rescue Trailer | 11:13 | 0.0 | 0.0 | 19.8 | 80.2 |
| North Storage Shed | 10:55 | 0.0 | 0.0 | 19.7 | 80.3 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 15:00 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-18 | 14:53 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-19 | 14:48 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-20 | 14:39 | 0.0 | 0.0 | 20.4 | 79.6 |
| LFG-21 | 14:33 | 0.0 | 0.0 | 20.6 | 79.4 |

Ambient Readings

| | | | | | |
|----------------------------|-------|-----|-----|------|------|
| Outside Scalehouse | 10:12 | 0.0 | 0.0 | 19.6 | 80.4 |
| By LFG 17 barhole location | 15:02 | 0.0 | 0.0 | 20.6 | 79.4 |

Signature _____

Landfill Gas Monitoring Results Attachment B

Sampler name: Andy Yuhas Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 8/25/12; 0.01 inches

Temp: 89 °F

Weather Conditions:

Wind Speed: 5 mph

Some clouds, warm

Wind Direction: SE

Barometric Pressure: 30.14, S in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®

Date and time last calibrated: 8/31/12, 09:40

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-2 | 9:35 | 0.0 | 0.0 | 18.9 | 81.1 |
| LFG-3 | 10:04 | 0.0 | 0.0 | 19.2 | 80.8 |
| LFG-5 | 11:35 | 0.0 | 3.5 | 16.5 | 80.0 |
| LFG-6 | 10:59 | 0.0 | 0.1 | 18.7 | 81.2 |
| LFG-7 | 14:23 | 0.0 | 0.5 | 19.3 | 80.2 |
| LFG-8 | 13:53 | 0.1 | 0.1 | 19.6 | 80.2 |
| LFG-9B | 11:52 | 0.0 | 0.0 | 19.6 | 80.4 |
| LFG-10A | 10:00 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-12 | 10:13 | 0.0 | 0.1 | 18.9 | 81.0 |
| LFG-14 | 10:03 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-15 | 9:45 | 0.0 | 0.2 | 19.1 | 80.7 |
| LFG-16 | 13:29 | 0.0 | 0.0 | 20.0 | 80.0 |
| LFG-20 | 12:58 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-21 | 12:17 | 0.0 | 0.1 | 19.8 | 80.1 |

Landfill Structures

| | | | | | |
|---------------------------------------|-------|-----|-----|------|------|
| Scalehouse (ticket office) | 14:04 | 0.0 | 0.0 | 20.0 | 80.0 |
| Scalehouse (supervisor's office) | 14:08 | 0.0 | 0.0 | 20.0 | 80.0 |
| Employee Lounge (underneath) | 14:11 | 0.0 | 0.0 | 20.4 | 79.6 |
| Grey Spotter's Shed | 14:07 | 0.0 | 0.0 | 20.3 | 79.7 |
| Portable Toilet | 13:50 | 0.0 | 0.0 | 20.1 | 79.9 |
| Grey Storage Shed | 14:02 | 0.0 | 0.0 | 20.2 | 79.8 |
| Composting Facilities Admin. Building | 10:52 | 0.0 | 0.0 | 19.1 | 80.9 |
| Public Works Dept. Admin. Office | 12:52 | 0.0 | 0.0 | 20.0 | 80.0 |
| Roads & Fleet Maintenance Building | 13:40 | 0.0 | 0.0 | 19.9 | 80.1 |
| Fire & Rescue Trailer | 13:37 | 0.0 | 0.0 | 19.8 | 80.2 |
| North Storage Shed | 13:45 | 0.0 | 0.0 | 20.0 | 80.0 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 13:22 | 0.0 | 0.0 | 19.6 | 80.4 |
| LFG-18 | 13:15 | 0.0 | 0.0 | 19.3 | 80.7 |
| LFG-19 | 13:09 | 0.0 | 0.0 | 19.6 | 80.4 |

Ambient Readings

| | | | | | |
|----------------------|-------|-----|-----|------|------|
| Near LFG-15/MW-5 | 9:42 | 0.0 | 0.0 | 19.8 | 80.2 |
| At Landfill Entrance | 15:15 | 0.0 | 0.0 | 19.7 | 80.3 |

Signature _____

Landfill Gas Monitoring Results Attachment B

Sampler name: Andy Yuhas/Mark Shepard Landfill name: Sandoval County Landfill

Methane sampling type: Dedicated probe/barhole Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 9/13/12; 0.09 inches Weather Conditions: Some clouds, warm
 Temp: 70 °F
 Wind Speed: 4 mph
 Wind Direction: WNW Barometric Pressure: 30.15 ↓ in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®
 Date and time last calibrated: 10/29/12 - 9:20 a.m.

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-2 | 10:19 | 0.0 | 0.2 | 19.7 | 80.1 |
| LFG-3 | 10:37 | 0.0 | 0.0 | 19.9 | 80.1 |
| LFG-5 | 10:44 | 0.0 | 3.3 | 17.3 | 79.4 |
| LFG-6 | 10:25 | 0.0 | 0.1 | 19.6 | 80.3 |
| LFG-7 | 13:28 | 0.0 | 0.6 | 18.8 | 80.6 |
| LFG-8 | 13:08 | 0.1 | 0.2 | 19.3 | 80.4 |
| LFG-9B | 11:08 | 0.0 | 0.0 | 19.4 | 80.6 |
| LFG-10A | 9:25 | 0.0 | 0.0 | 20.3 | 79.7 |
| LFG-12 | 9:51 | 0.0 | 0.2 | 19.6 | 80.2 |
| LFG-14 | 9:42 | 0.0 | 0.0 | 20.1 | 79.9 |
| LFG-15 | 9:28 | 0.0 | 0.3 | 20.0 | 79.7 |
| LFG-16 | 12:00 | 0.0 | 0.0 | 19.8 | 80.2 |
| LFG-20 | 11:28 | 0.0 | 0.0 | 19.4 | 80.6 |
| LFG-21 | 11:15 | 0.0 | 0.0 | 19.6 | 80.4 |

Landfill Structures

| | | | | | |
|---------------------------------------|-------|-----|-----|------|------|
| Scalehouse (ticket office) | 13:41 | 0.0 | 0.0 | 19.8 | 80.2 |
| Scalehouse (supervisor's office) | 13:43 | 0.0 | 0.0 | 19.9 | 80.1 |
| Employee Lounge (underneath) | 13:38 | 0.0 | 0.0 | 19.8 | 80.2 |
| Grey Spotter's Shed | 12:56 | 0.0 | 0.0 | 20.0 | 80.0 |
| Portable Toilet | 12:47 | 0.0 | 0.0 | 19.8 | 80.2 |
| Grey Storage Shed | 12:50 | 0.0 | 0.0 | 19.8 | 80.2 |
| Composting Facilities Admin. Building | 12:17 | 0.0 | 0.0 | 20.0 | 80.0 |
| Public Works Dept. Admin. Office | 12:42 | 0.0 | 0.0 | 19.8 | 80.2 |
| Roads & Fleet Maintenance Building | 12:29 | 0.0 | 0.0 | 19.9 | 80.1 |
| Fire & Rescue Trailer | 12:25 | 0.0 | 0.0 | 20.0 | 80.0 |
| North Storage Shed | 12:35 | 0.0 | 0.0 | 20.0 | 80.0 |
| Recycling Center Office* | 12:10 | 0.0 | 0.0 | 20.0 | 80.0 |
| Recycling Center Storage* | 12:13 | 0.0 | 0.0 | 20.0 | 80.0 |
| Recycling Center Portable Toilet* | 12:08 | 0.0 | 0.0 | 19.9 | 80.1 |

Barhole Probe Locations

| | | | | | |
|--------|-------|-----|-----|------|------|
| LFG-17 | 11:54 | 0.0 | 0.0 | 19.5 | 80.5 |
| LFG-18 | 11:47 | 0.0 | 0.0 | 19.5 | 80.5 |
| LFG-19 | 11:38 | 0.0 | 0.0 | 19.3 | 80.7 |

Ambient Readings

| | | | | | |
|----------------------|-------|-----|-----|------|------|
| Near LFG-15/MW-5 | 9:24 | 0.0 | 0.0 | 20.5 | 79.5 |
| At Landfill Entrance | 13:45 | 0.0 | 0.0 | 20.0 | 80.0 |

Signature _____

* New buildings added to monitoring network since 3rd quarter monitoring event (8/31/2012)

Landfill Gas Monitoring Results

Attachment B

Sampler name: Andy Yuhas/Mark Shepard Landfill name: Sandoval County Landfill
Methane sampling type: Dedicated Probe/Barhole Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 01/28/13, Trace inches Weather Conditions: Sunny/Windy
Temp: 46.1 °F
Wind Speed: 15.0 mph
Wind Direction: NNW Barometric Pressure: 30.15 ↓ in Hg

Equipment Information

Monitoring equipment used: CES Landtec GEM-2000®
Date and time last calibrated: 02/14/13, 0913

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-2 | 1017 | 0.0 | 0.2 | 20.9 | 78.9 |
| LFG-3 | 1031 | 0.0 | 0.2 | 20.8 | 79.0 |
| LFG-5 | 1107 | 0.0 | 3.5 | 18.1 | 78.4 |
| LFG-6 | 1027 | 0.0 | 0.5 | 20.6 | 78.9 |
| LFG-7 | 1332 | 0.0 | 0.8 | 20.1 | 79.1 |
| LFG-8 | 1250 | 0.2 | 0.6 | 20.3 | 78.9 |
| LFG-9B | 1133 | 0.0 | 0.0 | 20.5 | 79.5 |
| LFG-10A | 0934 | 0.0 | 0.1 | 21.4 | 78.5 |
| LFG-12 | 0943 | 0.0 | 0.2 | 21.2 | 78.6 |
| LFG-14 | 1300 | 0.0 | 0.0 | 20.7 | 79.3 |
| LFG-15 | 0928 | 0.0 | 0.1 | 21.3 | 78.6 |
| LFG-16 | 1254 | 0.0 | 0.1 | 20.6 | 79.3 |
| LFG-20 | 1229 | 0.0 | 0.1 | 20.3 | 79.6 |
| LFG-21 | 1141 | 0.0 | 0.1 | 20.7 | 79.2 |

Landfill Structures

| | | | | | |
|---------------------------------------|------|-----|-----|------|------|
| Scalehouse (ticket office) | 1422 | 0.0 | 0.0 | 20.9 | 79.1 |
| Scalehouse (supervisor's office) | 1424 | 0.0 | 0.0 | 20.9 | 79.1 |
| Employee Lounge (underneath) | 1419 | 0.0 | 0.0 | 20.9 | 79.1 |
| Tan Spotter's Shed | 1415 | 0.0 | 0.0 | 20.9 | 79.1 |
| Roll Off Storage Shed* | 1416 | 0.0 | 0.0 | 20.9 | 79.1 |
| Portable Toilet | 1410 | 0.0 | 0.0 | 20.9 | 79.1 |
| Gray Storage Shed | 1412 | 0.0 | 0.0 | 20.9 | 79.1 |
| Composting Facilities Admin. Building | 1323 | 0.0 | 0.0 | 20.7 | 79.3 |
| Public Works Dept. Admin. Office | 1317 | 0.0 | 0.0 | 20.7 | 79.3 |
| Roads & Fleet Maintenance Building | 1312 | 0.0 | 0.0 | 20.8 | 79.2 |
| Fire & Rescue Trailer | 1309 | 0.0 | 0.0 | 20.8 | 79.2 |
| North Storage Shed | 1304 | 0.0 | 0.0 | 21.0 | 79.0 |
| Recycling Center Office | 1004 | 0.0 | 0.0 | 21.2 | 78.8 |
| Recycling Center Storage | 1002 | 0.0 | 0.0 | 21.2 | 78.8 |
| Recycling Center Portable Toilet | 1006 | 0.0 | 0.0 | 21.3 | 78.7 |

Barhole Probe Locations

| | | | | | |
|--------|------|-----|-----|------|------|
| LFG-17 | 1249 | 0.0 | 0.0 | 20.8 | 79.2 |
| LFG-18 | 1244 | 0.0 | 0.0 | 20.8 | 79.2 |
| LFG-19 | 1238 | 0.0 | 0.0 | 20.7 | 79.3 |

Ambient Readings

| | | | | | |
|------------|------|-----|-----|------|------|
| Near MW-5 | 915 | 0.0 | 0.0 | 20.7 | 79.3 |
| Scalehouse | 1428 | 0.0 | 0.0 | 21.0 | 79.0 |

Signature _____

* New building added to monitoring network since 4th quarter monitoring event (10/29/2012)

ATTACHMENT B

LANDFILL GAS MONITORING FIELD LOG

Sandoval County Landfill

Sandoval County, NM

Monitoring Personnel: M. Shepard & B. Belliveau
Methane Monitoring Type: Dedicated Probe/Barhole
Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation 06/02/13; Trace
Temp: 81.3 °F
Wind Speed: 4.6 mph
Wind Direction: SSW (observed at site)
Barometric Pressure: 29.85 ↓ inches mercury (Hg)
Weather Conditions: Clear and Breezy

Equipment Information

Monitoring Equipment Used: CES-LandTec™ GEM 2000®
Testwell Instruments Depth to Water Meter
Date and Time Last Calibrated: 06/11/13; 0650

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-2 | 0850 | 0 | 0 | 19.7 | 80.3 |
| LFG-3 | 0900 | 0 | 0 | 19.8 | 80.2 |
| LFG-5 | 0908 | 0 | 2.2 | 19.9 | 77.9 |
| LFG-6 | 0857 | 0 | 0 | 19.7 | 80.3 |
| LFG-7 | 1120 | 0 | 0.2 | 19.2 | 80.6 |
| LFG-8 | 1124 | 0.1 | 0.1 | 19.2 | 80.6 |
| LFG-9B | 0915 | 0 | 0 | 19.7 | 80.3 |
| LFG-10A | 0721 | 0 | 0 | 20.3 | 79.7 |
| LFG-12 | 0826 | 0 | 0 | 20.0 | 80.0 |
| LFG-14 | 1000 | 0 | 0 | 19.5 | 80.5 |
| LFG-15 | 0713 | 0 | 0 | 20.2 | 79.8 |
| LFG-16 | 0954 | 0 | 0 | 19.7 | 80.3 |
| LFG-20 | 0927 | 0 | 0 | 19.8 | 80.2 |
| LFG-21 | 0921 | 0 | 0 | 19.8 | 80.2 |

Landfill Structures

| | | | | | |
|---------------------------------------|------|---|---|------|------|
| Scalehouse (ticket office) | 0753 | 0 | 0 | 20.2 | 79.8 |
| Scalehouse (supervisor's office) | 0751 | 0 | 0 | 20.2 | 79.8 |
| Employee Lounge (underneath) | 0748 | 0 | 0 | 20.3 | 79.7 |
| Tan Spotter's Shed | 0744 | 0 | 0 | 20.3 | 79.7 |
| Roll Off Storage Shed | 0746 | 0 | 0 | 20.3 | 79.7 |
| Portable Toilet | 0802 | 0 | 0 | 20.3 | 79.7 |
| Gray Storage Shed | 0759 | 0 | 0 | 20.3 | 79.7 |
| Composting Facilities Admin. Building | 0811 | 0 | 0 | 20.3 | 79.7 |
| Public Works Dept. Admin. Office | 0805 | 0 | 0 | 20.2 | 79.8 |
| Roads & Fleet Maintenance Building | 0730 | 0 | 0 | 20.3 | 79.7 |
| Fire & Rescue Trailer | 0727 | 0 | 0 | 20.3 | 79.7 |
| North Storage Shed | 0738 | 0 | 0 | 20.4 | 79.6 |
| Recycling Center Office | 0817 | 0 | 0 | 20.3 | 79.7 |
| Recycling Center Storage | 0819 | 0 | 0 | 20.3 | 79.7 |
| Recycling Center Portable Toilet | 0815 | 0 | 0 | 20.3 | 79.7 |

Barhole Probe Locations

| | | | | | |
|--------|------|---|---|------|------|
| LFG-17 | 0949 | 0 | 0 | 19.6 | 80.4 |
| LFG-18 | 0941 | 0 | 0 | 19.6 | 80.4 |
| LFG-19 | 0935 | 0 | 0 | 19.7 | 80.3 |

Ambient Readings

| | | | | | |
|-----------|------|---|---|------|------|
| Near MW-5 | 0657 | 0 | 0 | 20.3 | 79.7 |
| Near MW-3 | 1131 | 0 | 0 | 19.2 | 80.8 |

Signature(s): _____

ATTACHMENT B

LANDFILL GAS MONITORING FIELD LOG

Sandoval County Landfill

Sandoval County, NM

Monitoring Personnel: M. Shepard & B. Belliveau
Methane Monitoring Type: Dedicated Probe/Barhole
Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 07/20/13; Trace
Temp: 82 °F
Wind Speed: 10 mph
Wind Direction: Variable (observed at site)
Barometric Pressure: 29.9 S inches mercury (Hg)
Weather Conditions: Cloudy and Breezy

Equipment Information

Monitoring Equipment Used: CES-LandTec™ GEM 2000®

Date and Time Last Calibrated: 07/24/13; 0916

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-2 | 1025 | 0 | 0.1 | 20.6 | 79.3 |
| LFG-3 | 1040 | 0 | 0 | 20.7 | 79.3 |
| LFG-5 | 1054 | 0 | 2.6 | 18.0 | 79.4 |
| LFG-6 | 1032 | 0 | 0.1 | 20.4 | 79.5 |
| LFG-7 | 1342 | 0 | 0.3 | 19.7 | 80.0 |
| LFG-8 | 1406 | 0.2 | 0.2 | 20.2 | 79.4 |
| LFG-9B | 1120 | 0 | 0 | 20.3 | 79.7 |
| LFG-10A | 0939 | 0 | 0 | 20.7 | 79.3 |
| LFG-12 | 1010 | 0 | 0.1 | 20.5 | 79.4 |
| LFG-14 | 0925 | 0 | 0 | 20.7 | 79.3 |
| LFG-15 | 0919 | 0 | 0.2 | 20.5 | 79.3 |
| LFG-16 | 1227 | 0 | 0 | 20.0 | 80.0 |
| LFG-20 | 1155 | 0 | 0 | 20.1 | 79.9 |
| LFG-21 | 1133 | 0 | 0 | 20.2 | 79.8 |

Landfill Structures

| | | | | | |
|---------------------------------------|------|---|---|------|------|
| Scalehouse (ticket office) | 1243 | 0 | 0 | 20.3 | 79.7 |
| Scalehouse (supervisor's office) | 1246 | 0 | 0 | 20.4 | 79.6 |
| Employee Lounge (underneath) | 1238 | 0 | 0 | 20.2 | 79.8 |
| Tan Spotter's Shed | 1232 | 0 | 0 | 20.0 | 80.0 |
| Roll Off Storage Shed | 1234 | 0 | 0 | 20.1 | 79.9 |
| Portable Toilet | 1252 | 0 | 0 | 20.5 | 79.5 |
| Gray Storage Shed | 1323 | 0 | 0 | 20.5 | 79.5 |
| Composting Facilities Admin. Building | 1310 | 0 | 0 | 20.5 | 79.5 |
| Public Works Dept. Admin. Office | 1317 | 0 | 0 | 20.6 | 79.4 |
| Roads & Fleet Maintenance Building | 1258 | 0 | 0 | 20.5 | 79.5 |
| Fire & Rescue Trailer | 1303 | 0 | 0 | 20.5 | 79.5 |
| North Storage Shed | 0932 | 0 | 0 | 20.9 | 79.1 |
| Recycling Center Office | 0948 | 0 | 0 | 20.8 | 79.2 |
| Recycling Center Storage | 0951 | 0 | 0 | 20.8 | 79.2 |
| Recycling Center Portable Toilet | 0946 | 0 | 0 | 20.8 | 79.2 |

Barhole Probe Locations

| | | | | | |
|--------|------|---|---|------|------|
| LFG-17 | 1220 | 0 | 0 | 19.7 | 80.3 |
| LFG-18 | 1213 | 0 | 0 | 19.9 | 80.1 |
| LFG-19 | 1204 | 0 | 0 | 20.0 | 80.0 |

Ambient Readings

| | | | | | |
|-------------|------|---|---|------|------|
| Near LFG-15 | 0916 | 0 | 0 | 20.9 | 79.1 |
| Near LFG-8 | 1408 | 0 | 0 | 20.7 | 79.3 |

Signature(s): _____

ATTACHMENT B

LANDFILL GAS MONITORING FIELD LOG

Sandoval County Landfill

Sandoval County, NM

Monitoring Personnel: A. Yuhas & M. Shepard

Methane Monitoring Type: Dedicated Probe/Barhole

Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation 11/05/13; 0.3"

Temp: 53 °F

Wind Speed: 4 mph

Wind Direction: South (observed at site)

Barometric Pressure: 30.28 ↓ inches mercury (Hg)

Weather Conditions: Clear and Breezy

Equipment Information

Monitoring Equipment Used: CES-LandTec™ GEM 2000®

Date and Time Last Calibrated: 11/08/13; 0958

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-2 | 1105 | 0 | 0.6 | 20.5 | 78.9 |
| LFG-3 | 1118 | 0 | 1.8 | 19.3 | 78.9 |
| LFG-5 | 1126 | 0 | 3.3 | 17.7 | 79.0 |
| LFG-6 | 1111 | 0 | 0.4 | 20.4 | 79.2 |
| LFG-7 | 1224 | 0 | 1.1 | 19.7 | 79.2 |
| LFG-8 | 1241 | 0.1 | 0.7 | 20.2 | 79.0 |
| LFG-9B | 1136 | 0 | 0.1 | 20.8 | 79.1 |
| LFG-10A | 1018 | 0 | 0.2 | 21.0 | 78.8 |
| LFG-12 | 1032 | 0 | 0.5 | 20.4 | 79.1 |
| LFG-14 | 1024 | 0 | 0.3 | 20.8 | 78.9 |
| LFG-15 | 1005 | 0 | 0.3 | 20.7 | 79.0 |
| LFG-16 | 1217 | 0 | 0.4 | 20.5 | 79.1 |
| LFG-20 | 1159 | 0 | 0.1 | 20.5 | 79.4 |
| LFG-21 | 1148 | 0 | 0.1 | 20.6 | 79.3 |

Landfill Structures

| | | | | | |
|---------------------------------------|------|---|---|------|------|
| Scalehouse (ticket office) | 1323 | 0 | 0 | 21.0 | 79.0 |
| Scalehouse (supervisor's office) | 1321 | 0 | 0 | 21.0 | 79.0 |
| Employee Lounge (undemeath) | 1326 | 0 | 0 | 21.0 | 79.0 |
| Tan Spotter's Shed | 1314 | 0 | 0 | 21.1 | 78.9 |
| Roll Off Storage Shed | 1412 | 0 | 0 | 21.0 | 79.0 |
| Portable Toilet | 1309 | 0 | 0 | 21.0 | 79.0 |
| Gray Storage Shed | 1306 | 0 | 0 | 21.0 | 79.0 |
| Composting Facilities Admin. Building | 1059 | 0 | 0 | 21.0 | 79.0 |
| Public Works Dept. Admin. Office | 1302 | 0 | 0 | 21.0 | 79.0 |
| Roads & Fleet Maintenance Building | 1253 | 0 | 0 | 21.0 | 79.0 |
| Fire & Rescue Trailer | 1250 | 0 | 0 | 20.9 | 79.1 |
| North Storage Shed | 1257 | 0 | 0 | 21.1 | 78.9 |
| Recycling Center Office | 1050 | 0 | 0 | 21.2 | 78.8 |
| Recycling Center Storage | 1053 | 0 | 0 | 21.1 | 78.9 |
| Recycling Center Portable Toilet | 1048 | 0 | 0 | 21.1 | 78.9 |

Barhole Probe Locations

| | | | | | |
|--------|------|---|-----|------|------|
| LFG-17 | 1213 | 0 | 0 | 21.0 | 79.0 |
| LFG-18 | 1209 | 0 | 0.1 | 20.9 | 79.0 |
| LFG-19 | 1205 | 0 | 0.1 | 20.9 | 79.0 |

Ambient Readings

| | | | | | |
|----------------------|------|---|-----|------|------|
| Near LFG-15 | 1002 | 0 | 0.1 | 21.1 | 78.8 |
| Near Employee Lounge | 1328 | 0 | 0 | 21.1 | 78.9 |

Signature(s): _____

ATTACHMENT B

LANDFILL GAS MONITORING FIELD LOG SANDOVAL COUNTY LANDFILL SANDOVAL COUNTY, NM

Monitoring Personnel: Mark Shepard
Methane Monitoring Type: Dedicated Probe/Barhole
Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 02/06/14; Trace
Temp: 39.9 - 55.9 °F
Wind Speed: 0 - 5.8 mph
Wind Direction: NNW (observed at site)
Barometric Pressure: 30.04 ↓ inches mercury (Hg)
Weather Conditions: Clear to Partly Cloudy, Breezy

Equipment Information

Monitoring Equipment Used: CES-LandTec™ GEM 2000®

Date and Time Last Calibrated: 02/26/14; 0800

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-2 | 1101 | 0 | 0.3 | 22.6 | 77.1 |
| LFG-3 | 1113 | 0 | 0 | 22.6 | 77.4 |
| LFG-5 | 1120 | 0 | 2.9 | 19.3 | 77.8 |
| LFG-6 | 1106 | 0 | 0.3 | 22.4 | 77.3 |
| LFG-7 | 0959 | 0 | 0.9 | 22.0 | 77.1 |
| LFG-8 | 0954 | 0.1 | 0.9 | 22.3 | 76.7 |
| LFG-9B | 1127 | 0 | 0 | 22.4 | 77.6 |
| LFG-10A | 1023 | 0 | 0.1 | 22.2 | 77.7 |
| LFG-12 | 1047 | 0 | 0.4 | 22.6 | 77.0 |
| LFG-14 | 1220 | 0 | 0 | 22.6 | 77.4 |
| LFG-15 | 1215 | 0 | 0.1 | 22.6 | 77.3 |
| LFG-16 | 1201 | 0 | 0 | 22.8 | 77.2 |
| LFG-20 | 1137 | 0 | 0.1 | 22.4 | 77.5 |
| LFG-21 | 1132 | 0 | 0 | 22.5 | 77.5 |

Landfill Structures

| | | | | | |
|---------------------------------------|------|---|-----|------|------|
| Scalehouse (ticket office) | 1240 | 0 | 0 | 22.8 | 77.2 |
| Scalehouse (supervisor's office) | 1242 | 0 | 0 | 22.8 | 77.2 |
| Employee Lounge (underneath) | 1245 | 0 | 0 | 20.7 | 79.3 |
| Tan Spotter's Shed | 1211 | 0 | 0 | 22.8 | 77.2 |
| Roll Off Storage Shed | 1209 | 0 | 0 | 22.8 | 77.2 |
| Portable Toilet | 1205 | 0 | 0 | 22.8 | 77.2 |
| Gray Storage Shed | 1235 | 0 | 0 | 22.8 | 77.2 |
| Composting Facilities Admin. Building | 1057 | 0 | 0 | 20.6 | 79.4 |
| Public Works Dept. Admin. Office | 1012 | 0 | 0.1 | 22.4 | 77.5 |
| Roads & Fleet Maintenance Building | 1231 | 0 | 0 | 22.9 | 77.1 |
| Fire & Rescue Trailer | 1227 | 0 | 0 | 22.8 | 77.2 |
| North Storage Shed | 1017 | 0 | 0.1 | 22.3 | 77.6 |
| Recycling Center Office | 1028 | 0 | 0.1 | 22.4 | 77.5 |
| Recycling Center Storage #1 | 1038 | 0 | 0.1 | 22.7 | 77.2 |
| Recycling Center Storage #2* | 1032 | 0 | 0.1 | 22.6 | 77.3 |
| Recycling Center Storage #3* | 1035 | 0 | 0.1 | 22.6 | 77.3 |
| Recycling Center Portable Toilet | 1030 | 0 | 0.1 | 22.5 | 77.4 |

Barhole Probe Locations

| | | | | | |
|--------|------|---|-----|------|------|
| LFG-17 | 1155 | 0 | 0 | 22.9 | 77.1 |
| LFG-18 | 1148 | 0 | 0.1 | 22.9 | 77.0 |
| LFG-19 | 1144 | 0 | 0.1 | 22.8 | 77.1 |

Ambient Readings

| | | | | | |
|----------------------|------|---|-----|------|------|
| Near LFG-15 | 0945 | 0 | 0.2 | 22.1 | 77.7 |
| Near Employee Lounge | 1247 | 0 | 0 | 20.8 | 79.2 |

* New buildings added to monitoring network since 4th quarter monitoring event (11/08/13).

Signature(s): _____

ATTACHMENT B

LANDFILL GAS MONITORING FIELD LOG SANDOVAL COUNTY LANDFILL SANDOVAL COUNTY, NM

Monitoring Personnel: Mark Shepard
Methane Monitoring Type: Dedicated Probe/Barhole
Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 03/02/14; 0.01 inches
Temp: 59.0 - 71.6 °F
Wind Speed: 8.1 - 18.4 mph
Wind Direction: SW (observed at site)
Barometric Pressure: 30.30 ↓ inches mercury (Hg)
Weather Conditions: Clear to Partly Cloudy, Breezy

Equipment Information

Monitoring Equipment Used: CES-LandTec™ GEM 2000®
Date and Time Last Calibrated: 05/15/14; 1107

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-2 | 1234 | 0 | 0 | 21.3 | 78.7 |
| LFG-3 | 1243 | 0 | 0.1 | 21.1 | 78.8 |
| LFG-5 | 1249 | 0 | 1.4 | 19.3 | 79.3 |
| LFG-6 | 1238 | 0 | 0 | 21.3 | 78.7 |
| LFG-7 | 1125 | 0 | 0.4 | 20.5 | 79.1 |
| LFG-8 | 1119 | 0 | 0.3 | 20.4 | 79.3 |
| LFG-9B | 1255 | 0 | 0 | 20.8 | 79.2 |
| LFG-10A | 1146 | 0 | 0 | 21.5 | 78.5 |
| LFG-12 | 1212 | 0 | 0.1 | 21.2 | 78.7 |
| LFG-14 | 1141 | 0 | 0 | 21.3 | 78.7 |
| LFG-15 | 1132 | 0 | 0.1 | 20.9 | 79.0 |
| LFG-16 | 1337 | 0 | 0.1 | 20.8 | 79.1 |
| LFG-20 | 1308 | 0 | 0 | 20.4 | 79.6 |
| LFG-21 | 1303 | 0 | 0 | 21.0 | 79.0 |

Landfill Structures

| | | | | | |
|---------------------------------------|------|---|---|------|------|
| Scalehouse (ticket office) | 1415 | 0 | 0 | 20.9 | 79.1 |
| Scalehouse (supervisor's office) | 1420 | 0 | 0 | 20.9 | 79.1 |
| Employee Lounge (underneath) | 1410 | 0 | 0 | 21.1 | 78.9 |
| Tan Spotter's Shed | 1344 | 0 | 0 | 20.9 | 79.1 |
| Roll Off Storage Shed | 1347 | 0 | 0 | 21.1 | 78.9 |
| Portable Toilet | 1341 | 0 | 0 | 21.0 | 79.0 |
| Gray Storage Shed | 1351 | 0 | 0 | 21.1 | 78.9 |
| Composting Facilities Admin. Building | 1229 | 0 | 0 | 21.5 | 78.5 |
| Public Works Dept. Admin. Office | 1136 | 0 | 0 | 21.4 | 78.6 |
| Roads & Fleet Maintenance Building | 1402 | 0 | 0 | 21.1 | 78.9 |
| Fire & Rescue Trailer | 1356 | 0 | 0 | 21.1 | 78.9 |
| North Storage Shed | 1406 | 0 | 0 | 21.1 | 78.9 |
| Recycling Center Office | 1200 | 0 | 0 | 21.4 | 78.6 |
| Recycling Center Storage #1 | 1204 | 0 | 0 | 21.4 | 78.6 |
| Recycling Center Storage #2 | 1151 | 0 | 0 | 21.4 | 78.6 |
| Recycling Center Storage #3 | 1154 | 0 | 0 | 21.5 | 78.5 |
| Recycling Center Portable Toilet | 1157 | 0 | 0 | 21.5 | 78.5 |

Barhole Probe Locations

| | | | | | |
|--------|------|---|---|------|------|
| LFG-17 | 1330 | 0 | 0 | 20.8 | 79.2 |
| LFG-18 | 1323 | 0 | 0 | 20.9 | 79.1 |
| LFG-19 | 1316 | 0 | 0 | 20.9 | 79.1 |

Ambient Readings

| | | | | | |
|----------------------|------|---|---|------|------|
| Near LFG-4 | 1110 | 0 | 0 | 20.8 | 79.2 |
| Near Employee Lounge | 1424 | 0 | 0 | 20.9 | 79.1 |

Signature(s): _____

ATTACHMENT B

LANDFILL GAS MONITORING FIELD LOG SANDOVAL COUNTY LANDFILL SANDOVAL COUNTY, NM

Monitoring Personnel: Andy Yuhas / Brent Hall
Methane Monitoring Type: Dedicated Probe / Barhole
Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation 08/02/14 0.01 in.
Temp: 68.7 °F
Wind Speed: 3.5 mph
Wind Direction: SOUTH (observed at site)
Barometric Pressure: 30.19 ↓ inches mercury (Hg)
Weather Conditions: CLEAR

Equipment Information

Monitoring Equipment Used: CES-LandTec™ GEM 2000*
Date and Time Last Calibrated: 8/6/14 11:30 AM

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-2 | 1227 | 0.0 | 0.2 | 22.9 | 76.9 |
| LFG-3 | 1245 | 0.0 | 0.1 | 21.2 | 78.7 |
| LFG-5 | 1252 | 0.0 | 2.9 | 20.9 | 76.2 |
| LFG-6 | 1232 | 0.0 | 0.2 | 22.9 | 76.9 |
| LFG-7 | 1540 | 0.0 | 0.6 | 22.6 | 76.8 |
| LFG-8 | 1525 | 0.2 | 0.3 | 23.4 | 76.1 |
| LFG-9B | 1321 | 0.0 | 0.0 | 21.9 | 78.1 |
| LFG-10A | 1135 | 0.0 | 0.2 | 22.1 | 77.7 |
| LFG-12 | 1143 | 0.0 | 0.3 | 22.0 | 77.7 |
| LFG-14 | 1422 | 0.0 | 0.0 | 23.5 | 76.5 |
| LFG-15 | 1416 | 0.0 | 0.0 | 23.3 | 76.7 |
| LFG-16 | 1404 | 0.0 | 0.0 | 23.2 | 76.8 |
| LFG-20 | 1338 | 0.0 | 0.1 | 22.4 | 77.5 |
| LFG-21 | 1328 | 0.0 | 0.0 | 22.2 | 77.8 |

Landfill Structures

| | | | | | |
|---------------------------------------|------|-----|-----|------|------|
| Scalehouse (ticket office) | 1504 | 0.0 | 0.0 | 24.3 | 75.7 |
| Scalehouse (supervisor's office) | 1506 | 0.0 | 0.0 | 24.3 | 75.7 |
| Employee Lounge (underneath) | 1500 | 0.0 | 0.0 | 24.3 | 75.7 |
| Tan Spotter's Shed | 1456 | 0.0 | 0.0 | 24.4 | 75.6 |
| Roll Off Storage Shed | 1458 | 0.0 | 0.0 | 24.2 | 75.8 |
| Portable Toilet | 1449 | 0.0 | 0.0 | 24.3 | 75.7 |
| Gray Storage Shed | 1452 | 0.0 | 0.0 | 24.4 | 75.6 |
| Composting Facilities Admin. Building | 1512 | 0.0 | 0.0 | 24.2 | 75.8 |
| Public Works Dept. Admin. Office | 1434 | 0.0 | 0.0 | 24.0 | 76.0 |
| Roads & Fleet Maintenance Building | 1438 | 0.0 | 0.0 | 24.0 | 76.0 |
| Fire & Rescue Trailer | 1442 | 0.0 | 0.0 | 24.1 | 75.9 |
| North Storage Shed | 1427 | 0.0 | 0.0 | 23.9 | 76.1 |
| Recycling Center Office | 1212 | 0.0 | 0.0 | 20.6 | 79.4 |
| Recycling Center Storage #1 | 1215 | 0.0 | 0.0 | 20.6 | 79.4 |
| Recycling Center Storage #2 | 1217 | 0.0 | 0.0 | 20.7 | 79.3 |
| Recycling Center Storage #3 | 1222 | 0.0 | 0.0 | 20.7 | 79.3 |
| Recycling Center Portable Toilet | 1210 | 0.0 | 0.0 | 20.5 | 79.5 |

Barhole Probe Locations

| | | | | | |
|--------|------|-----|-----|------|------|
| LFG-17 | 1359 | 0.0 | 0.0 | 22.9 | 77.1 |
| LFG-18 | 1353 | 0.0 | 0.1 | 22.7 | 77.2 |
| LFG-19 | 1347 | 0.0 | 0.1 | 22.7 | 77.2 |

Ambient Readings

| | | | | | |
|--------------|------|-----|-----|------|------|
| Near LFG-10A | 1134 | 0.0 | 0.0 | 22.8 | 77.2 |
| Near LFG-7 | 1542 | 0.0 | 0.0 | 23.8 | 76.2 |

Signature(s): _____

ATTACHMENT B

LANDFILL GAS MONITORING FIELD LOG SANDOVAL COUNTY LANDFILL SANDOVAL COUNTY, NM

Monitoring Personnel: Mark Shepard / Sarah Schnell
Methane Monitoring Type: Dedicated Probe / Barhole
Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation 11/02/14 0.26 in.
Temp: 55 °F
Wind Speed: 2 mph
Wind Direction: NNE (observed at site)
Barometric Pressure: 30.32 ↓ inches mercury (Hg)
Weather Conditions: Clear

Equipment Information

Monitoring Equipment Used: CES-LandTec™ GEM 2000®
Date and Time Last Calibrated: 11/05/2014; 1155

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LFG-2 | 1343 | 0 | 0.2 | 20.9 | 78.9 |
| LFG-3 | 1356 | 0 | 0.1 | 20.5 | 79.4 |
| LFG-5 | 1406 | 0 | 2.9 | 17.9 | 79.2 |
| LFG-6 | 1348 | 0 | 0.1 | 20.7 | 79.2 |
| LFG-7 | 1211 | 0 | 0.5 | 20.0 | 79.5 |
| LFG-8 | 1205 | 0 | 0.5 | 20.3 | 79.2 |
| LFG-9B | 1412 | 0 | 0 | 20.3 | 79.7 |
| LFG-10A | 1231 | 0 | 0 | 20.0 | 80.0 |
| LFG-12 | 1238 | 0 | 0.3 | 19.7 | 80.0 |
| LFG-14 | 1224 | 0 | 0.1 | 20.1 | 79.8 |
| LFG-15 | 1218 | 0 | 0.3 | 19.9 | 79.8 |
| LFG-16 | 1447 | 0 | 0 | 20.3 | 79.7 |
| LFG-20 | 1422 | 0 | 0.2 | 20.3 | 79.5 |
| LFG-21 | 1417 | 0 | 0.1 | 20.2 | 79.7 |

Landfill Structures

| | | | | | |
|---------------------------------------|------|---|---|------|------|
| Scalehouse (ticket office) | 1527 | 0 | 0 | 20.7 | 79.3 |
| Scalehouse (supervisor's office) | 1524 | 0 | 0 | 20.7 | 79.3 |
| Employee Lounge (underneath) | 1522 | 0 | 0 | 20.7 | 79.3 |
| Tan Spotter's Shed | 1517 | 0 | 0 | 20.6 | 79.4 |
| Roll Off Storage Shed | 1519 | 0 | 0 | 20.6 | 79.4 |
| Portable Toilet | 1509 | 0 | 0 | 20.6 | 79.4 |
| Gray Storage Shed | 1513 | 0 | 0 | 20.5 | 79.5 |
| Composting Facilities Admin. Building | 1336 | 0 | 0 | 21.5 | 78.5 |
| Public Works Dept. Admin. Office | 1500 | 0 | 0 | 20.6 | 79.4 |
| Roads & Fleet Maintenance Building | 1455 | 0 | 0 | 20.6 | 79.4 |
| Fire & Rescue Trailer | 1452 | 0 | 0 | 20.6 | 79.4 |
| North Storage Shed | 1505 | 0 | 0 | 20.6 | 79.4 |
| Recycling Center Office | 1304 | 0 | 0 | 20.6 | 79.4 |
| Recycling Center Storage #1 | 1311 | 0 | 0 | 20.6 | 79.4 |
| Recycling Center Storage #2 | 1300 | 0 | 0 | 20.6 | 79.4 |
| Recycling Center Storage #3 | 1258 | 0 | 0 | 20.6 | 79.4 |
| Recycling Center Portable Toilet | 1308 | 0 | 0 | 20.6 | 79.4 |

Barhole Probe Locations

| | | | | | |
|--------|------|---|-----|------|------|
| LFG-17 | 1441 | 0 | 0.1 | 20.3 | 79.6 |
| LFG-18 | 1433 | 0 | 0 | 20.5 | 79.5 |
| LFG-19 | 1428 | 0 | 0 | 20.6 | 79.4 |

Ambient Readings

| | | | | | |
|----------------------|------|---|-----|------|------|
| Near LFG-4 | 1157 | 0 | 0.1 | 20.6 | 79.3 |
| Near Employee Lounge | 1530 | 0 | 0 | 20.8 | 79.2 |

Signature(s): _____

ATTACHMENT B

LANDFILL GAS MONITORING FIELD LOG SANDOVAL COUNTY LANDFILL SANDOVAL COUNTY, NM

Monitoring Personnel: Mark Shepard / Sarah Schnell
Methane Monitoring Type: Dedicated Probe / Barhole
Probe Depth: 30' or 24"-36"

Weather Information

Date and amount of last precipitation: 1/31; +/- 2" snow
Temp: 63 °F
Wind Speed: 5-10 mph
Wind Direction: SW (observed at site)
Barometric Pressure: 30.09 (1) inches-mercury (Hg)
Weather Conditions: Clear, breezy

Equipment Information

Monitoring Equipment Used: CES-LandTec™ GEM 600®
Date and Time Last Calibrated: 02/09/16; 10:50 am

Permanent Landfill Gas Monitoring Probes

| Monitoring Probe ID | Time of Measurement | CH ₄ (% in air) | CO ₂ (% in air) | O ₂ (% in air) | Balance Gas (% in air) |
|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------|---------------------------|
| LPG-2 | 1233 | 0 | 0.3 | 18.0 | 81.7 |
| LPG-3 | 1246 | 0 | 0.3 | 17.9 | 81.8 |
| LPG-5 | 1253 | 0.1 | 2.6 | 15.7 | 81.6 |
| LPG-6 | 1239 | 0 | 0.3 | 17.7 | 82.0 |
| LPG-7 | 1108 | 0 | 0.7 | 17.7 | 81.6 |
| LPG-8 | 1102 | 0.1 | 0.6 | 17.7 | 81.6 |
| LPG-9B | 1300 | 0.1 | 0 | 18.0 | 81.9 |
| LPG-10A | 1133 | 0 | 0.1 | 17.9 | 82.0 |
| LPG-12 | 1212 | 0 | 0.4 | 17.7 | 81.9 |
| LPG-14 | 1127 | 0 | 0.1 | 18.0 | 81.9 |
| LPG-15 | 1425 | 0 | 0.2 | 17.9 | 81.9 |
| LPG-16 | 1340 | 0 | 0.1 | 17.9 | 82.0 |
| LPG-20 | 1314 | 0 | 0.2 | 17.9 | 81.9 |
| LPG-21 | 1304 | 0 | 0.1 | 17.9 | 82.0 |

Landfill Structures

| | | | | | |
|---------------------------------------|------|---|-----|------|------|
| Scrubhouse (ticket office) | 1433 | 0 | 0.1 | 18.4 | 81.5 |
| Scrubhouse (supervisor's office) | 1435 | 0 | 0 | 18.5 | 81.5 |
| Employee Lounge (underneath) | 1429 | 0 | 0 | 18.4 | 81.6 |
| Tan Spotter's Shed | 1420 | 0 | 0 | 18.4 | 81.6 |
| Roll Off Storage Shed | 1418 | 0 | 0 | 18.3 | 81.7 |
| Portable Toilet | 1345 | 0 | 0 | 18.2 | 81.8 |
| Gray Storage Shed | 1347 | 0 | 0 | 18.3 | 81.7 |
| Composting Facilities Admin. Building | 1220 | 0 | 0 | 18.3 | 81.8 |
| Public Works Dept. Admin. Office | 1122 | 0 | 0.1 | 18.0 | 81.9 |
| Roads & Fleet Maintenance Building | 1354 | 0 | 0 | 18.5 | 81.5 |
| Fire & Rescue Trailer | 1351 | 0 | 0 | 18.4 | 81.6 |
| North Storage Shed | 1405 | 0 | 0 | 18.5 | 81.5 |
| Recycling Center Office | 1412 | 0 | 0 | 18.4 | 81.6 |
| Recycling Center Storage #1 | 1200 | 0 | 0 | 18.2 | 81.8 |
| Recycling Center Storage #2 | 1142 | 0 | 0 | 18.3 | 81.7 |
| Recycling Center Storage #3 | 1144 | 0 | 0 | 18.1 | 81.9 |
| Recycling Center Portable Toilet | 1140 | 0 | 0 | 18.0 | 82.0 |

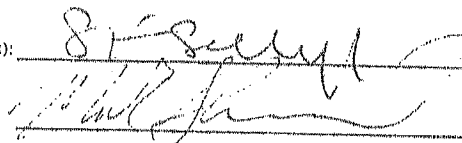
Barhole Probe Locations

| | | | | | |
|--------|------|---|-----|------|------|
| LPG-17 | 1334 | 0 | 0.1 | 18.2 | 81.7 |
| LPG-18 | 1324 | 0 | 0.1 | 18.2 | 81.7 |
| LPG-19 | 1320 | 0 | 0.1 | 18.2 | 81.7 |

Ambient Readings

| | | | | | |
|----------------------|------|---|---|------|------|
| Near LPG-4 | 1059 | 0 | 0 | 18.0 | 82.0 |
| Near Employee Lounge | 1430 | 0 | 0 | 18.4 | 81.6 |

Signature(s):



**APPLICATION FOR PERMIT RENEWAL AND MODIFICATION
SANDOVAL COUNTY LANDFILL**

**VOLUME II: LANDFILL MANAGEMENT PLANS
SECTION 5: CLOSURE/POST-CLOSURE PLAN**

**ATTACHMENT II.5.D
FINAL GRADING PLAN**

**APPLICATION FOR PERMIT RENEWAL AND MODIFICATION
SANDOVAL COUNTY LANDFILL**

**VOLUME II: LANDFILL MANAGEMENT PLANS
SECTION 5: CLOSURE/POST-CLOSURE PLAN**

**ATTACHMENT II.5.E
HELP MODEL SUMMARY**

ATTACHMENT II.5.E
HELP Model Summary
Sandoval County Landfill

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1.0 INTRODUCTION

The purpose of this document is to summarize the results of the Hydrologic Evaluation of Landfill Performance (HELP) modeling used to demonstrate that the prescriptive liner and proposed alternate final cover proposed for the Sandoval County Landfill (SCLF) meet or exceed the design requirements of 20.9.4.13 NMAC. A detailed discussion of the HELP modeling results is provided in **Volume III.10**.

2.0 DESIGN CRITERIA

The United States Environmental Protection Agency (USEPA) HELP model was used to evaluate the performance of the prescriptive liner and proposed alternate final cover; and to demonstrate that the designs will perform as well as or better than the regulatory prescriptive standards:

2.1 Prescriptive Liner Design

In the prescriptive liner design, on-site soils are used for the protective drainage layer; and a high-density polyethylene (HDPE) flexible membrane liner (FML) and reinforced geosynthetic clay liner (GCL) are used as the composite liner:

- 24-in protective soil layer (PSL) using on-site soils ($K_{\text{sat}} \geq 5.0 \times 10^{-5}$ cm/sec)
- 60-mil double-sided textured HDPE FML ($K_{\text{sat}} = 2.0 \times 10^{-13}$ cm/sec)
- Reinforced GCL ($K_{\text{sat}} = 5.0 \times 10^{-9}$ cm/sec)
- 6-in compacted subgrade using on-site soils ($K_{\text{sat}} \leq 4.2 \times 10^{-6}$ cm/sec)

20.9.4.13.E(4)(a and b) NMAC require that the PSL be constructed using granular soils that contain no more than 5% fines by weight (e.g., material passing a No. 200 sieve) and that have a uniformity coefficient (C_u) less than 6.0. As part of the prescriptive liner design, SCLF proposes to use on-site soils in the PSL that have a fines content less than or equal to 15% fines. Geotechnical analyses of on-site and imported soils indicate that the PSL materials available to SCLF consist primarily of a mixture of sand with varying amounts of silt (SM); and that the soils meet the permeability design criteria for the proposed PSL material. The type of soil used to represent the PSL in the HELP modeling is silty sand (i.e., USCS classification SM). It is anticipated that, as on-site soil is excavated, the resulting composite of soils will be best represented by this USCS classification.

2.2 Alternate Final Cover Design

The alternate final cover design for the 122.5-acre \pm disposal area is an evapotranspiration (ET) cap, specifically suited to the arid site conditions. The design of the ET cap layers are summarized below (in descending order):

- 6-in vegetative (erosion) layer using uncompacted on-site soils
- 30-in barrier (infiltration) layer using compacted on-site soils to 90% standard Proctor density ($K_{\text{sat}} = \leq 7.2 \times 10^{-4} \text{ cm/sec}$)
- 12-in intermediate soil cover layer using uncompacted on-site soils

3.0 HELP MODEL RESULTS

3.1 Tier I Prescriptive Liner Demonstration

HELP model simulations were performed to evaluate the performance of the prescriptive liner design. The simulation used climatologic data from 1984 through 1988 (i.e., the wettest consecutive 5-year period from the most recent 40-year period for which complete records are available). In the simulation, the landfill was conservatively assumed to be in an open condition with no waste present; and all precipitation is retained within the landfill; and there is no runoff. The average annual percolation rate for the prescriptive liner was calculated to be 0.0 in/yr. The resulting average annual head is approximately 4.96 inches, substantially less than the regulatory standard of 12 inches.

3.2 Tier I Alternate Final Cover Demonstration

HELP model simulations were performed to compare the performance of the alternate final cover to that of the prescriptive liner. For this simulation, the environmental loading conditions are the same as those used for the prescriptive liner demonstration; and the landfill was assumed to be in a closed condition with 100% of the surface area available for stormwater runoff.

The performance measure for this simulation is the average annual rate of percolation through the bottom layer of the prescriptive liner versus the alternate final cover. When the barrier layer of the alternate final cover is modeled using the SM soil type with a hydraulic conductivity of $\leq 7.2 \times 10^{-4} \text{ cm/sec}$, the average annual percolation rate calculated for the alternate final cover is 0.000009 in/yr.

Since the average annual percolation rate values for the prescriptive liner (i.e., 0.0 in/yr) and the alternate final cover (i.e., 0.000009 in/yr) are within 0.00001 of each other, then the demonstration is successful since these values are practically equal (the definition of equivalent) and well within modeling uncertainty. Therefore, for the SM soil type, the performance of the alternate final cover design meets the Tier I demonstration requirements.

3.3 Tier II Prescriptive Liner and Alternate Final Cover Demonstration

Four HELP model simulations were performed to evaluate the performance of the complete prescriptive liner and alternate final cover systems to ensure that the uppermost aquifer will be protected. The evaluation is based on the results of a series of simulations that represent hypothetical operating and climatologic conditions over the life of the landfill. In these analyses, the finished landfill, including both the prescriptive liner and alternate cover designs, was modeled.

The vegetative, barrier, intermediate cover, and protective soil layers were modeled using the SM soil type. In each of the modeled simulations, the percolation rate was calculated to be zero. Therefore, for the soil type modeled for these layers, the performance of the prescriptive liner and alternate final cover meets the Tier II demonstration requirements. In summary, the HELP modeling demonstrates that the performance of the alternate final cover meets the requirements of 20.9.4.13 NMAC; and the prescriptive liner and alternate final cover designs are shown to be an effective system using available and sustainable on-site soils.

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SECTION 5: CLOSURE/POST-CLOSURE PLAN**

ATTACHMENT II.5.F

**FINAL COVER CONSTRUCTION AND
CONSTRUCTION QUALITY ASSURANCE (CQA) PLAN**

ATTACHMENT II.5.F

Final Cover Construction and Construction Quality Assurance (CQA) Plan Sandoval County Landfill

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1.0 INTRODUCTION

This Final Cover Construction and Construction Quality Assurance (CQA) Plan (the “Plan”) is provided to demonstrate that the final cover construction for the Sandoval County Landfill (SCLF) meets the requirements of 20.9.4.14 NMAC, Testing and Quality Control for Liners and Final Covers. The evapotranspiration (ET) cap must also meet specific geotechnical engineering laboratory and field standards.

1.1 Project Objectives

This Plan documents the measures that will be used to ensure that the final cover will be constructed in compliance with:

- 20.9.4.14 NMAC
- The approved Engineering Design
- The Permit and any Permit Conditions
- This Final Cover Construction and CQA Plan
- Industry standards and other applicable technical criteria

1.2 Final Cover Design

The proposed alternative final cover system for SCLF consists of three components: the vegetative (i.e., erosion) layer, the barrier layer (i.e., infiltration layer), and intermediate cover. A summary of these components is provided in **Table II.5.F.1**:

TABLE II.5.F.1
Final Cover Design
Sandoval County Landfill

| Component | Specifications | Notes |
|------------------------------|---------------------|--|
| Vegetative (Erosion) Layer | 6” thick | Uppermost horizon; source: select on-site soils; uncompacted |
| Barrier (Infiltration) Layer | 30” thick | Base layer; source: select on-site soils; $K \leq 7.2 \times 10^{-4}$ cm/sec; compacted to 90% of Standard Proctor density; compacted dry of optimum |
| Intermediate Cover | 12” thick (minimum) | Installed prior to final cover components; source: select on-site soils, compacted |

Note: Approved barrier layer soils may also be obtained from offsite sources

2.0 FINAL COVER CONSTRUCTION

The final cover system for SCLF has been designed to meet the requirements of 20.9.6.9.A(1)(b-g) NMAC. The construction and installation of final cover will be performed in accordance with this Plan. Testing of soil material components of the SCLF final cover system will be performed in accordance with applicable American Society of Testing Materials (ASTM) standards as identified on **Table II.5.F.2** (laboratory testing) and **Table II.5.F.3** (field testing), and in accordance with 20.9.4.14 NMAC.

TABLE II.5.F.2
Final Cover Testing Specifications – Laboratory Tests
Sandoval County Landfill

| Laboratory Test | ASTM Standard | Specified Testing Frequency (20.9.4.14 NMAC) |
|-----------------------------|-------------------------|---|
| 1. Grain Size | C136 | 1/1,000 cy |
| 2. Atterberg Limits | D4318 | 1/5,000 cy |
| 3. Standard Proctor Density | D698 | 1/5,000 cy |
| 4. Permeability | D2434 (or Falling Head) | 1/5,000 cy |
| 5. USCS Classification | D2487 | Not specified |

Note: The most current version of the applicable ASTM standard will be used

Field testing of final covers will be completed by a qualified CQA technician (supervised by a qualified Engineer registered in the State of New Mexico) experienced in final cover installation and soils or geotechnical engineering, as appropriate (20.9.4.14.B NMAC). **Table II.5.F.3** lists the applicable field testing required for final cover construction and identifies:

- Key property being evaluated
- The appropriate type of test procedure and method
- The sampling strategy and frequency

2.1 Grid Coordinate System

The SCLF site will be surveyed by a licensed Professional Surveyor to establish a grid coordinate system and pre-construction topography. Survey data will be used for construction staking and for confirming that final contours conform to the approved design specifications (i.e., slope, thickness, elevation tolerance).

TABLE II.5.F.3
Required CQA Standards for Final Cover Construction
Sandoval County Landfill

| Element | Key Property | CQA/CQC Test | Sampling Plan | Sampling Frequency | Standard Test Method |
|--|--|------------------------|----------------------|---------------------------|-----------------------------|
| Final Cover: | Maximum Density | Proctor Test | Judgmental | 1 per 5,000 cy | ASTM D698 |
| Barrier (Infiltration) Layer Material Evaluation | Gradation | Sieve Analysis of Soil | Random | 1 per 1,000 cy | ASTM C136 |
| | Atterberg Limits | PI, LL, PL | Random | 1 per 5,000 cy | ASTM D4318 |
| | Permeability | Recompacted | Random | 1 per 5,000 cy | ASTM D2434 or Falling Head |
| Barrier (Infiltration) Layer Construction Quality Evaluation | In-Place Density | Nuclear Density Test | Random within grid | 4 per acre per lift | ASTM D2922 |
| | Permeability | Recompacted | Random | 1 per 2 acres | ASTM D2434 or Falling Head |
| | Lift Thickness | Measurement | Grid | 2 per acre | N/A |
| | Thickness of Barrier Layer | Surveying or Probe | Grid | 1 per acre | N/A |
| Vegetative (Erosion) Layer Construction Quality Evaluation | Thickness of Vegetative Layer | Surveying or Probe | Grid | 1 per acre | N/A |
| | Elevations of Vegetative Layer (Final Grade) | Surveying | Grid | 5 per acre | N/A |

Notes:

N/A = not applicable

cy = cubic yard

The most current version of the applicable ASTM standard will be used

2.2 Barrier Layer Construction

The installed barrier (i.e., infiltration) layer will consist of pre-approved existing in-place final cover soils and on-site stockpiled materials. Prior to construction of the final cover system, unsuitable materials (e.g., vegetative material, rocks, deleterious items, etc.) will be removed.

2.2.1 Barrier Layer Compaction

The required compaction specification for SCLF barrier layer soils in the final cover system is at least 90% of the Reference Standard Proctor Density (Proctor) for representative samples (to be determined). Barrier layer soils will be compacted “dry of optimum moisture” to minimize the potential for desiccation. Soils for the barrier layer will be placed in approximately five, maximum 6-inch-thick (\pm) finished lifts. The minimum testing frequency for in-place density is 4 tests per acre per lift; and testing will be measured and recorded with a nuclear density meter or equivalent method. Soil compaction will be accomplished using heavy equipment (e.g., vibratory or sheepsfoot rollers, scrapers, dump trucks, bulldozers, etc.). Testing will be recorded on the Final Cover CQA and Closure Documentation Record (**Figure II.5.F.1**), and Field Compaction Testing Form (**Figure II.5.F.2**) or equivalent template.

2.2.2 Barrier Layer Acceptance

Upon completion of the barrier layer installation, the surface will be inspected by a qualified CQA technician, and confirmed by the CQA Engineer, prior to commencing vegetative layer installation activities. Inspection will include visual confirmation that the barrier layer is free of materials in excess of 2 inches in diameter, vegetation, and other deleterious materials. Once the barrier layer has passed inspection, it will be surveyed by a professional surveyor licensed in the State of New Mexico to demonstrate that the slope and thickness are in compliance with the approved design specifications.

2.3 Vegetative Layer Construction

Upon completion and approval of barrier layer construction, an additional 6 inches of select non-compacted soil (i.e., vegetative layer) will be installed over the closure area. Materials for the vegetative layer (i.e., erosion control layer) will be obtained from approved on-site stockpiles. The completed vegetative layer will be inspected by a qualified CQA technician prior to commencing

FIGURE II.5.F.2
Field Compaction Testing Form
Sandoval County Landfill

| PROJECT INFORMATION | |
|---|-------------------------|
| PROJECT TITLE: Sandoval County Landfill | PROJECT NO.: |
| OWNER: Sandoval County | DATE: |
| PROJECT LOCATION: Sandoval County, NM | PAGE NO.: |
| Testing Instrument: Troxler 3440 | CQA Technician: |
| Reference Density (pcf): | Reference Moisture (%): |

[illegible][illegible]

Reviewed By: _____

Date: _____

seeding activities. Once the vegetative layer has been demonstrated to conform to design specifications, the top surface of the vegetative layer will be surveyed by a Professional Surveyor licensed in the State of New Mexico to demonstrate that the final slope and thickness are in compliance with design specifications.

2.3.1 Seeding

Prior to seeding, the owner or selected subcontractor will review either the New Mexico State Highway and Transportation Department recommended seeding mix and rate for the project. Adjustments with regard to application rates will be made if necessary, and provided to NMED Solid Waste Bureau and State Highway and Transportation Department for review and approval prior to implementation. The seed mixture will be planted approximately ½-inch deep via the drill or broadcast seeding method. After placement of the seed mixture, straw mulch (or similar) will be spread uniformly over the seeded area and anchored using a crimper. The seeded vegetative layer will be inspected by a qualified CQA technician, as well as the seeding subcontractor, to demonstrate conformance with project specifications. The seeding subcontractor will provide documentation of seed and mulch certification.

3.0 CONSTRUCTION QUALITY ASSURANCE

A qualified CQA technician will be onsite for each significant stage of the final cover construction to perform visual inspections and spatially representative tests of soil conditions. The CQA technician will document activities using logs similar to the Daily Summary Reports (**Figure II.5.F.3**) and Field Logs (**Figures II.5.F.1 and II.5.F.2**). Recorded data will include weather conditions, personnel and equipment deployed, and activities conducted including installations, testing, and inspections. In addition, the CQA technician will take photographs to document key stages of the final cover construction. Consistent with the requirements of 20.9.6.8.L NMAC, an Engineering Certification Report for Final Cover Construction will be submitted to NMED Solid Waste Bureau for review within 60 days of closure construction. The Certification Report will include a summary of closure activities; and a certification by a New Mexico registered Professional Engineer experienced in landfill engineering that the closure of the facility has been completed and all conditions of the approved closure plan have been satisfied.

| | | | |
|--------------------------|--------------------------|-----------------------|--|
| Project Title: | Sandoval County Landfill | Report No.: | |
| Owner: | Sandoval County | Page: | |
| Project Location: | Sandoval County, NM | Date: | |
| Project No.: | | Day: | |
| Weather: | A.M.: P.M.: | Precipitation: | |
| Temp. (°F): | | | |

CQA Engineer

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**ATTACHMENT II.5.G
C/PC COST ESTIMATES**

- II.5.G.1 CLOSURE/POST-CLOSURE: COST ESTIMATE SUMMARY
- II.5.G.2 CLOSURE CONSTRUCTION: CLOSURE COST ESTIMATE
- II.5.G.3 LANDFILL MAINTENANCE: POST-CLOSURE COST ESTIMATE
- II.5.G.4 ENVIRONMENTAL MONITORING: POST-CLOSURE COST ESTIMATE
- II.5.G.5 COMPOSTING FACILITY: CLOSURE COST ESTIMATE
- II.5.G.6 PHASE I/II ASSESSMENTS: COST ESTIMATE

**ATTACHMENT II.5.G.1
CLOSURE/POST-CLOSURE
COST ESTIMATE SUMMARY
Sandoval County Landfill**

| TASK | COST ESTIMATE |
|-------------------------------------|--------------------|
| 1.0 CLOSURE CONSTRUCTION | \$3,636,330 |
| 2.0 LANDFILL MAINTENANCE | \$431,916 |
| 3.0 ENVIRONMENTAL MONITORING | \$489,753 |
| 4.0 COMPOSTING FACILITY | \$37,653 |
| 5.0 PHASE I/II ASSESSMENTS | \$232,327 |
| TOTAL COST ESTIMATE: | \$4,827,980 |

**ATTACHMENT II.5.G.2
CLOSURE CONSTRUCTION
CLOSURE COST ESTIMATE
Sandoval County Landfill**

| TASK 1.0 | | UNIT I | UNIT II | UNIT III | UNIT IV | Unit | Unit Cost | Total Cost |
|--|-----------------------|------------|------------|------------|-----------|------|-------------|--------------------|
| | | 29.4 acres | 19.5 acres | 63.6 acres | 5.0 acres | | | |
| | | Quantity | Quantity | Quantity | Quantity | | | |
| 1.1 Final Cover Installation | Thickness (ft) | | | | | | | |
| 1.1.1 Transport and Install Vegetative Layer | 0.5 | 23,716 | 15,730 | 51,304 | 4,033 | CY | \$4.70 | \$445,482 |
| 1.1.2 Transport, Install, and Compact Infiltration Layer | 2.5 | 118,580 | 78,650 | 256,520 | 20,167 | CY | \$4.67 | \$2,213,191 |
| 1.1.3 Transport and Install Intermediate Layer | 1 | 0 | 0 | 102,608 | 8,067 | CY | \$2.86 | \$316,530 |
| 1.1.4 Vegetative Layer Seeding (Class A) | -- | 29.4 | 19.5 | 63.6 | 5.0 | AC | \$1,705.96 | \$200,450 |
| Task Subtotal | | | | | | | | \$3,175,652 |
| 1.2 Site Work | | | | | | | | |
| 1.2.1 Drainage Extensions | | | 1 | | | LS | \$11,372.97 | \$11,373 |
| 1.2.2 On-site Roadwork | | | 1 | | | LS | \$22,745.92 | \$22,746 |
| Task Subtotal | | | | | | | | \$34,119 |
| 1.3 Engineering | | | | | | | | |
| 1.3.1 Design/Procurement | | | 1 | | | LS | \$56,864.77 | \$56,865 |
| 1.3.2 CQA Certification | | | 1 | | | LS | \$34,118.87 | \$34,119 |
| Task Subtotal | | | | | | | | \$90,984 |
| 1.4 Recycling Center | | | | | | | | |
| 1.4.1 Removal of Waste & Recyclables, Cleanup, and Certification | | | 1 | | | LS | \$5,000.00 | \$5,000 |
| Task Subtotal | | | | | | | | \$5,000 |
| SUBTOTAL | | | | | | | | \$3,305,755 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | | | | \$330,575 |
| TOTAL COST | | | | | | | | \$3,636,330 |

Notes:

- Closure costs are based on contracting with a qualified third party to complete and certify closure. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
- Final cover installation costs assume that:
 - ▶ The greatest area requiring final cover is approximately 117.5 acres, consisting of the total acreage for Units I-III (112.5 acres) and a 5-acre portion of Unit IV.
 - ▶ Intermediate cover has already been installed on Units I & II.
- CY = Cubic Yards
AC = Acre
LS = Lump Sum

ATTACHMENT II.5.G.3
LANDFILL MAINTENANCE
POST-CLOSURE COST ESTIMATE
Sandoval County Landfill

| TASK 2.0 | Unit Quantity | Unit | Unit Cost | Total Cost Per Year | Total Cost For 30 Years |
|--|--------------------------|-------------|------------------|--------------------------------|------------------------------------|
| 2.1 Final Cover Inspection and Reporting | | | | | |
| 2.1.1 Inspection | 2 | events/yr | \$1,364.76 | \$2,730 | \$81,886 |
| 2.1.2 Recordkeeping and Reporting | 1 | report/yr | \$1,364.76 | \$1,365 | \$40,943 |
| Task Subtotal | | | | \$4,094 | \$122,828 |
| 2.2 Final Cover Maintenance | | | | | |
| 2.2.1 Cover Maintenance (Erosion) | 1 | AC/yr | \$1,000.00 | \$1,000 | \$30,000 |
| 2.2.2 Vegetation | 2 | AC/yr | \$1,705.96 | \$3,412 | \$102,358 |
| Task Subtotal | | | | \$4,412 | \$132,358 |
| 2.3 Leachate Management System | | | | | |
| 2.3.1 Inspection, Measurements, & Repairs | 2 | events/yr | \$400.00 | \$800 | \$24,000 |
| 2.3.2 Pump Replacement (Every 5 years) | 1 | LS | \$650.00 | \$108 | \$3,900 |
| 2.3.3 Removal & Disposal/Treatment | 1 | events/yr | \$500.00 | \$500 | \$15,000 |
| 2.3.4 Recordkeeping and Reporting | 1 | report/yr | \$300.00 | \$300 | \$9,000 |
| Task Subtotals | | | | \$1,708 | \$51,900 |
| 2.4 Environmental Monitoring Network | | | | | |
| 2.4.1 Inspection | 2 | events/yr | \$150.00 | \$300 | \$9,000 |
| 2.4.2 Recordkeeping and Reporting | 1 | report/yr | \$300.00 | \$300 | \$9,000 |
| Task Subtotals | | | | \$600 | \$18,000 |
| 2.5 Surface Water Management System | | | | | |
| 2.5.1 Inspection/Repairs | 2 | events/yr | \$450.43 | \$901 | \$27,026 |
| 2.5.2 Channels/Basins Cleaning & Repairs | 1 | events/yr | \$450.43 | \$450 | \$13,513 |
| Task Subtotals | | | | \$901 | \$40,539 |
| 2.6 Site Security | | | | | |
| 2.6.1 Inspection/Repairs | 2 | repairs/yr | \$450.43 | \$901 | \$27,026 |
| Task Subtotal | | | | \$901 | \$27,026 |
| SUBTOTAL | | | | \$12,616 | \$392,651 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | \$1,262 | \$39,265 |
| TOTAL COST | | | | \$12,616 | \$431,916 |

Notes:

1. Post-closure maintenance costs are based on contracting with a qualified third party to conduct post-closure care for the landfill. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
2. AC = Acre
LS = Lump Sum

ATTACHMENT II.5.G.4
ENVIRONMENTAL MONITORING
POST-CLOSURE COST ESTIMATE
Sandoval County Landfill

| TASK 3.0 | Unit Quantity | Unit | Unit Cost | Total Cost Per Year | Total Cost |
|--|--------------------------|--------------|------------------|--------------------------------|-----------------------|
| 3.1 Landfill Gas Monitoring | | | | | |
| 3.1.1 Field Services/Reporting (30 years) | 4 | events/yr | \$682.39 | \$2,730 | \$81,887 |
| Task Subtotal | | | | \$2,730 | \$81,887 |
| 3.2 Groundwater Monitoring (Reduced Analyte List) | | | | | |
| 3.2.1 Field Services/Reporting (24 years) | 1 | events/yr | \$6,823.78 | \$6,824 | \$163,771 |
| 3.2.2 Lab Analysis (24 years) | 1 | events/yr | \$2,865.99 | \$2,866 | \$68,784 |
| Task Subtotal | | | | \$9,690 | \$232,554 |
| 3.3 Groundwater Monitoring (Full Analyte List) | | | | | |
| 3.3.1 Field Services/Reporting (6 years) | 1 | events/yr | \$6,823.78 | \$6,824 | \$40,943 |
| 3.3.2 Lab Analysis (6 years) | 1 | events/yr | \$10,235.67 | \$10,236 | \$61,414 |
| Task Subtotal | | | | \$17,059 | \$102,357 |
| 3.4 Monitoring Well Abandonment | | | | | |
| 3.4.1 Field Services/Reporting (6 wells) | 1 | single event | \$28,432.40 | -- | \$28,432 |
| Task Subtotal | | | | -- | \$28,432 |
| SUBTOTAL | | | | \$29,479 | \$445,230 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | \$2,948 | \$44,523 |
| TOTAL COST | | | | \$32,427 | \$489,753 |

Notes:

1. Post-closure environmental monitoring costs are based on contracting with a qualified third part to conduct post-closure monitoring for the landfill. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
2. Well abandonment costs are one-time costs.

**ATTACHMENT II.5.G.5
COMPOSTING FACILITY
CLOSURE COST ESTIMATE
Sandoval County Landfill**

| TASK 4.0 | Unit Quantity | Unit | Unit Cost | Total Cost |
|--|--------------------------|-------------|------------------|-----------------------|
| 4.1 Waste Handling | | | | |
| 4.1.1 Apply Cured Compost to Final Cover | 1,500 | CY | \$4.01 | \$6,015 |
| 4.1.2 Transport and Place Containerized Compost | 500 | CY | \$22.76 | \$11,380 |
| 4.1.3 Dispose of Accumulated Leachate | 5,000 | gallons | \$0.58 | \$2,900 |
| Task Subtotal | | | | \$20,295 |
| 4.2 Site Restoration | | | | |
| 4.2.1 Dismantle and Remove Infrastructure | 1 | LS | \$2,843.25 | \$2,843 |
| 4.2.2 Remove and Dispose of Concrete Pad | 250 | CY | \$22.76 | \$5,690 |
| 4.2.3 Grade and Vegetate Surface | 3 | AC | \$852.98 | \$2,559 |
| Task Subtotal | | | | \$11,092 |
| 4.3 Inspection and Certification | 1 | LS | \$2,843.25 | \$2,843 |
| Task Subtotal | | | | \$2,843 |
| SUBTOTAL | | | | \$34,230 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | \$3,423 |
| TOTAL COST | | | | \$37,653 |

Notes:

1. CY = Cubic Yards
LS = Lump Sum
AC = Acre

ATTACHMENT II.5.G.6
PHASE I/II ASSESSMENTS
COST ESTIMATE
Sandoval County Landfill

| TASK 5.0 | Unit Quantity | Unit | Unit Cost | Total Cost |
|--|----------------------|-------------|------------------|-------------------|
| Downgradient Wells (5) | | | | |
| 5.1 Sampling and Analysis | | | | |
| 5.1.1 Lab Analysis (Full Subsections B&C parameters) | 5 | samples | \$3,354.86 | \$16,774 |
| 5.1.2 Field Services/Reporting | 1 | events | \$5,032.30 | \$5,032 |
| <i>Task Subtotal</i> | | | | \$21,807 |
| All Wells (6) | | | | |
| 5.2 Sampling and Analysis | | | | |
| 5.2.1 Lab Analysis (Subsection B detected parameters) | 24 | samples | \$1,677.44 | \$40,259 |
| 5.2.2 Field Services/Reporting | 4 | events | \$5,032.30 | \$20,129 |
| <i>Task Subtotal</i> | | | | \$60,388 |
| All Wells (6) | | | | |
| 5.3 Sampling and Analysis | | | | |
| 5.3.1 Lab Analysis (Full Subsections A&C parameters) | 12 | samples | \$1,677.44 | \$20,129 |
| 5.3.2 Lab Analysis (Subsection B detected parameters) | 12 | samples | \$1,677.44 | \$20,129 |
| 5.3.3 Field Services/Reporting | 2 | events | \$5,032.30 | \$10,065 |
| <i>Task Subtotal</i> | | | | \$50,323 |
| New Wells (1) | | | | |
| 5.4 New Well Installation, Sampling, and Analysis | | | | |
| 5.4.1 Well Installation | 1 | wells | \$55,914.23 | \$55,914 |
| 5.4.2 Lab Analysis (Full Subsections A&C parameters) | 2 | samples | \$1,677.44 | \$3,355 |
| 5.4.3 Lab Analysis (Subsection B detected parameters) | 2 | samples | \$1,677.44 | \$3,355 |
| 5.4.4 Field Services/Reporting | 2 | events | \$5,032.30 | \$10,065 |
| <i>Task Subtotal</i> | | | | \$72,689 |
| 5.5 Consultant Assessment | | | | |
| 5.5.1 Phase I/Phase II Assessment and Corrective Action Program | 1 | LS | \$6,000.00 | \$6,000 |
| <i>Task Subtotal</i> | | | | \$6,000 |
| SUBTOTAL | | | | \$211,206 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | \$21,121 |
| TOTAL COST | | | | \$232,327 |

Notes:

1. Phase I and Phase II Assessment costs are based on contracting with a qualified third party to conduct the activities outlined above. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
2. Cost estimates are based on sampling and analysis of wells that are intended to be part of the groundwater monitoring network over the next 10 years, plus one additional well.
3. Task 5.4: Due to positive groundwater quality results to-date, only 1 new well is projected for installation at this time. In the event additional wells are needed for Phase I/Phase II assessment, the cost estimate for this Task will be updated.
4. Task 5.5: Assessment and Corrective Action cost for this update based on positive groundwater quality results to-date. This cost will be updated accordingly if Corrective Action is necessary.
5. LS = Lump Sum

EXHIBIT G

PLAN OF OPERATIONS: 2015 APPLICATION FOR PERMIT (UPDATED JANUARY 2019)

Plan of Operations Update

Sandoval County Landfill

Permit Nos: SWM-0123365

SWM-0123364 (SP)

Rio Rancho, New Mexico

Submitted To:

**New Mexico Environment Department
Solid Waste Bureau – Permit Section
P.O. Box 5469
Santa Fe, New Mexico 87505**

Prepared For:

**Sandoval County Public Works Department
2708 Iris Road
Rio Rancho, New Mexico 87144
505.867.0814**

Prepared By:

**Gordon Environmental/PSC
333 Rio Rancho Blvd., Suite 400
Rio Rancho, New Mexico 87124
505.867.6990**

January 17, 2019

Gordon/PSC Project #: 01004118





333 Rio Rancho Blvd. NE, Suite 400
Rio Rancho, New Mexico 87124
505.867.6990

January 17, 2018

Mr. George Schuman
Permit Section Manager
NMED Solid Waste Bureau
P.O. Box 5469
Santa Fe, NM 87502-5469

**Re: Sandoval County Landfill (01004118)
Plan of Operations Update
Relocation of Recycling Operation**

Dear Mr. Schuman:

On behalf of our client, Sandoval County (the County), Gordon Environmental/PSC is submitting this Plan of Operations Update to the New Mexico Environment Department Solid Waste Bureau (SWB) for the Sandoval County Landfill (SCLF). SCLF has relocated the "Recycling Center" from the southwest corner of the facility to within the Operations Center located at the northwest corner of the site. The Site Plan (Figure II.2.2), Landfill Operations Center (Figure II.2.3), and plan narrative have been revised accordingly; and the previous Recycling Center Layout (Figure II.2.5) has been removed.

We appreciate SWB's review of the enclosed documentation. Please contact us with your questions or comments at 505-867-6990 or MCrepeau@team-psc.com.

Very truly yours,
Gordon Environmental/PSC

A handwritten signature in black ink, appearing to read "Braden Belliveau".

Braden Belliveau, E.I.T.
Project Engineer

A handwritten signature in black ink, appearing to read "Michael Crepeau".

Michael Crepeau, P.E.
Senior Project Manager

Attachment:

1. Volume II.2, Plan of Operations (Updated January 2019)



**NEW MEXICO
ENVIRONMENT DEPARTMENT**

Solid Waste Bureau

1190 Saint Francis Drive, Room N-2150

P.O. Box 5469

Santa Fe, New Mexico 87502-5469

Telephone: (505) 827-0197 Facsimile: (505) 827-2902

www.env.nm.gov/swb/



MICHELLE LUJAN GRISHAM
Governor

HOWIE C. MORALES
Lt. Governor

JAMES C. KENNEY
Cabinet Secretary

JENNIFER J. PRUETT
Deputy Secretary

March 5, 2019

Mr. Mike Crepeau, P.E., Senior Project Manager
Gordon Environmental/PSC
333 Rio Rancho Blvd., NE, Suite 400
Rio Rancho, New Mexico 87124

Received

MAR 08 2019

Gordon Environmental / PSC

RE: Approval of Updated Plan of Operations, Sandoval County Landfill

Dear Mr. Crepeau:

The Solid Waste Bureau ("Bureau") has reviewed the updated Plan of Operations for the Sandoval County Landfill received on January 22, 2019. The updated Plan of Operations was submitted to the Bureau as an amendment to Volume II, Section 2 of the approved 2016 Application for Permit Renewal and Modification.

The Plan of Operations was updated to reflect the new collection area for public drop-off of recyclable materials. Figures II.2.2 and II.2.3 have been revised and narrative has been added describing the relocation of the recyclable materials drop-off area. The updated Plan of Operations received on January 22, 2019 is hereby approved.

Should you have any questions, please feel free to contact me at (505) 827-2328 (M, T, Th) or (505) 222-9577 (W, F), or by e-mail at george.schuman@state.nm.us.

Sincerely,

George Schuman
Permit Section Manager, Solid Waste Bureau

Cc: Mr. Bert Sanchez, Sandoval County Landfill, 2708 Iris Road NE, Rio Rancho, NM 87144
James Dyer, Hydrologist, NMED-SWB
Paul Martinez, Enforcement Area I, NMED-SWB
Sandoval County Landfill Facility File
G. Schuman reading file

Sandoval County Landfill
Application for Permit Renewal and Modification
Volume II: Landfill Management Plans
Section 2: Plan of Operations

February 2016 (Updated January 2019)

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**Sandoval County Landfill
Application for Permit Renewal and Modification
Volume II: Landfill Management Plans
Section 2: Plan of Operations**

February 2016 (Updated January 2019)

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1.0 INTRODUCTION

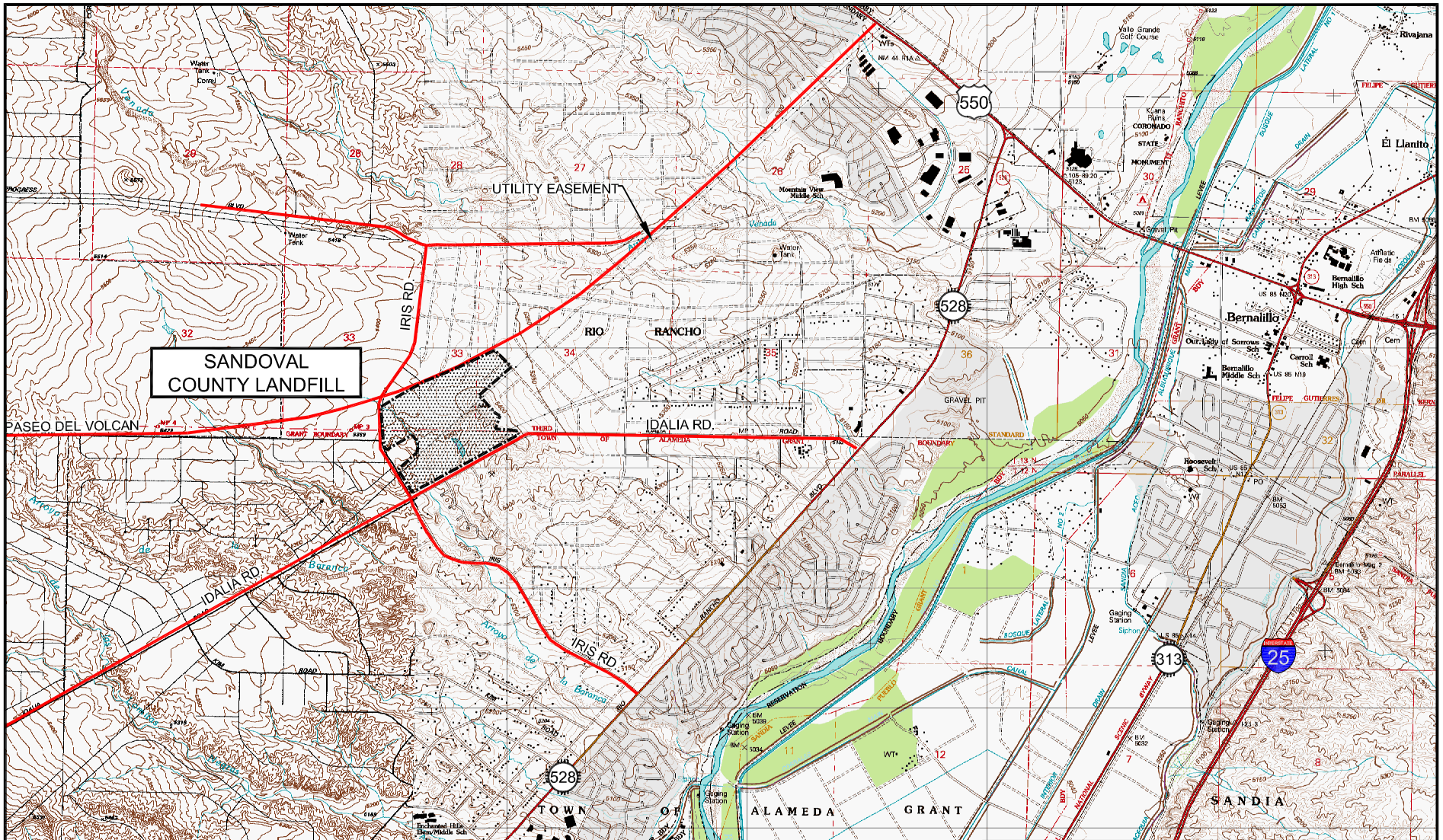
The Sandoval County Landfill (SCLF) is an existing solid waste facility operating in compliance with its current Permits, SWM-0123365 and SWM-0123364 (SP), and the New Mexico Environment Department (NMED) Solid Waste Rules (20.9.2-2.9.10 NMAC). SCLF is located at 2708 Iris Road NE in Rio Rancho, New Mexico (NM), and occupies 178.3 acres \pm . SCLF is publicly owned and operated by the County of Sandoval (“the County”), and is currently permitted to accept municipal solid waste (MSW), including construction and demolition debris (C&D) and tires, and two special wastes: petroleum contaminated soils (PCS) and sludge. This Plan of Operations Update addresses relocation of the “Recycling Center” from the southwest corner of the Facility to within the “Operations Center”; and proposes to continue landfill operating practices proven to provide protection to public health, safety, and the environment.

1.1 Site Location

SCLF is located at 2708 Iris Road NE in Rio Rancho, New Mexico (NM). The approximate geographic coordinates for the center of the site are a: Latitude 35.307°N and Longitude 106.622°W. The SCLF “solid waste facility” (20.9.2.7.S(11) NMAC) footprint encompasses approximately 178.3 acres \pm of land located within portions of the Sections 33 and 34, Township 13 North, Range 3 East of the New Mexico Prime Meridian, Sandoval County, NM as shown on **Figure II.2.1**. The SCLF “solid waste disposal area” (20.9.2.7.S(10) NMAC) occupies approximately 122.5 acres \pm of the 178.3 acre \pm solid waste facility footprint; as identified in **Table II.2.1**, and shown on the Site Plan (**Figure II.2.2**).

1.2 Site History

SCLF has been in operation since the early 1970s, and in 1983, SCLF was registered as a landfill with NMED. The 114 acre \pm site was first permitted (SWM-050304) by Roy F. Weston, Inc. (Weston) to NMED standards prevailing at the time (i.e., 20 NMAC 9.1) in 1998, and a copy of the Final Order is provided in **Attachment I.1.B**. The SCLF Permit was modified and renewed by Gordon Environmental, Inc. (GEI) as approved by NMED in 2005 [SWM-050304 and SWM-050304 (SP)] and a copy of the Final Order is provided in **Attachment I.1.B**. The 2005 Modification included a 63 acre \pm lateral expansion of the facility boundary to the north, which resulted in a 178.3 acre \pm facility containing a 112.5 acre \pm disposal area. In addition to the



MAP REFERENCE:
 BERNALILLO, NM (2006), AND LOMA MACHETE, NM (1996),
 USGS 7.5' SERIES, 1:24,000 SCALE, TOPOGRAPHIC QUADRANGLE MAPS.



SITE LOCATION MAP

SANDOVAL COUNTY LANDFILL
 RIO RANCHO, NEW MEXICO



333 Rio Rancho Blvd. N.E.
 Rio Rancho, New Mexico
 Phone: 505-867-6990
 Fax: 505-867-6991

| | | |
|------------------|----------------------------|---------------------|
| DATE: 11/6/2018 | CAD: SITE LOCATION MAP.dwg | PROJECT #: 01004118 |
| DRAWN BY: BSB | REVIEWED BY: MJC | FIGURE II.2.1 |
| APPROVED BY: MJC | www.team-psc.com | |

Sandoval County Landfill
Application for Permit Renewal and Modification
Volume II: Landfill Management Plans
Section 2: Plan of Operations
February 2016 (Updated January 2019)

TABLE II.2.1 - Solid Waste Disposal Area

| Unit/Cell | | Total Acreage |
|---|---------|---------------|
| Unit I | | 29.4 |
| Unit II | | 19.5 |
| Unit III ¹ | | 63.6 |
| | Cell 4A | 10.5 |
| | Cell 4B | 3.9 |
| | Cell 4C | 6.5 |
| | Cell 5A | 10.7 |
| | Cell 5B | 5.8 |
| | Cell 6A | 6.2 |
| | Cell 6B | 10 |
| | Cell 7 | 10 |
| Unit IV ² | | 30.7 |
| Solid Waste Disposal Acreage ² | | 122.5 |
| Solid Waste Facility Acreage | | 178.3 |

Notes:

¹ Unit III is comprised of 8 cells totaling 63.6 acres ±.

² Unit IV overlaps Units I, II, and III as well as a portion of the former PNM Easement as follows:

Unit I overlap = 11.3 acres ±

Unit II overlap = 6.2 acres ±

Unit III overlap = 3.2 acres ±

(Former) PNM Easement = 10 acres ±

Total Unit IV acreage = 30.7 acres ±

Therefore, Unit IV acreage not already accounted for in the disposal area totals 10 acres ± (i.e., a portion of the former PNM Easement).



LEGEND

- SITE BOUNDARY (178.3 ACRES±)
- UNIT BOUNDARY
- CELL BOUNDARY
- DISPOSAL AREA BOUNDARY (122.5 ACRES±)
- UNIT IV BOUNDARY
- FENCE LINE
- PAVED ROAD
- UNPAVED ROAD
- UTILITY EASEMENT
- STORMWATER BASIN
- STOCKPILED MATERIALS (APPROXIMATE)
- ADDITIONAL WASTE MANAGEMENT AREAS (APPROXIMATE)
- POWERPOLE
- FIRE HYDRANT (3)
- UNIT IV

NOTE:
 SITE BOUNDARY FROM THE 2014 VACATION PLAT 093013 RRE BOOK 25, PAGE 65, SANDOVAL COUNTY LANDFILL.
 PLANIMETRIC FEATURES BASED ON THE TOPOGRAPHIC/PLANIMETRIC MAPPING PERFORMED ON JANUARY 24, 2014 BY AEROTECH MAPPING INC. LANDFILL OPERATION FACILITIES FIELD VERIFIED MARCH 18 2015.



0 250' 500'

SITE PLAN

SANDOVAL COUNTY LANDFILL
 RIO RANCHO, NEW MEXICO

| | | | |
|-----------------------------------|--------------------|---------------------|---|
| GORDONPSC ENVIRONMENTAL | | | 333 Rio Rancho Blvd. N.E. Rio Rancho, New Mexico Phone: 505-867-8990 Fax: 505-867-6991 |
| DATE: 11/02/2018 | CAD: SITE PLAN.dwg | PROJECT #: 01004118 | |
| DRAWN BY: SH | REVIEWED BY: BSB | FIGURE II.2.2 | |
| APPROVED BY: MJC | www.team-psc.com | | |

expansion, the 2005 Permit included the addition of in-vessel composting services to divert organic waste from incoming waste streams for beneficial uses.

The County renewed the SCLF Permit in February 2016, compliant with the Solid Waste Rules (20.9.2-20.9.10 NMAC 08/02/2007) to include an additional lateral and vertical expansion of the solid waste disposal boundary. The Modification included a new Unit IV disposal area overlapped with Units I, II, and III, and includes a portion of the former Public Service Company of New Mexico (PNM) utilities easement. The Modification resulted in a 122.5-acre \pm disposal area (i.e., a 10-acre lateral expansion), with no changes to the previous 178.3-acre \pm solid waste facility boundary. The Modification also resulted in a vertical expansion of just under 100 ft (maximum) to accommodate the new Unit IV disposal area (see **Volume I.1, Table A**).

SCLF is discontinuing operations at the Recycling Center, located at the southwest corner of the permit boundary. The SCLF Recycling Center was previously operated by the City of Rio Rancho. SCLF intends to continue recycling operations within the Operations Center located at the northwest corner of the facility near the Scalehouse. No specific changes in operation are anticipated as a result of the relocation. SCLF will continue its routine and proven practice of providing temporary and permanent roadways; and sufficient fill face dimensions and supervision to accommodate safe and efficient unloading. The Permit Application includes continued operations that are proven to protect public health, safety, and the environment.

1.3 Purpose

Defined as a “solid waste facility,” and more specifically an “existing municipal landfill” and “special waste landfill,” SCLF is subject to regulation under 20.9.2 - 20.9.10 NMAC. This Plan of Operations (the “Plan”) is provided to achieve two primary objectives:

- To identify and address the applicable regulatory requirements, and to prescribe the continuation of proven operating techniques to achieve compliance objectives.
- To provide a functional working Plan for use by facility personnel that details safe, efficient, and orderly operating practices.

This Plan addresses a range of issues from daily routine procedures; long-term site development sequencing; and ultimately incremental and final closure. Applicable sections of 20.9.2 - 20.9.10

NMAC that are addressed by this Plan include:

| | |
|------------------|--|
| 20.9.3.8 | PERMIT APPLICATION REQUIREMENTS |
| 20.9.3.9 | ADDITIONAL PERMIT APPLICATION REQUIREMENTS FOR MUNICIPAL, MONOFILL OR SPECIAL WASTE LANDFILL FACILITIES |
| 20.9.5.8 | GENERAL OPERATING REQUIREMENTS FOR SOLID WASTE FACILITIES AND COMMERCIAL HAULERS |
| 20.9.5.9 | ADDITIONAL MUNICIPAL, SPECIAL WASTE, AND MONOFILL LANDFILL OPERATING REQUIREMENTS |
| 20.9.5.16 | RECORD KEEPING AND ANNUAL REPORTS |

This document is a compilation of the responses to operating requirements listed in these Rules and cross-referenced in other components of the Application for Permit Renewal and Modification (e.g., **Volume II.4**, Construction Quality Assurance Plan; **Volume II.5**, Closure/Post-Closure Plan, etc.). The Plan of Operations is an “operating plan” as defined by 20.9.3.8.C(6) NMAC, and is related to each of the other Landfill Management Plans provided in **Volume II** as described in **Table II.2.2**.

The set of Landfill Management Plans that comprises **Volume II** will be maintained on-site as part of the Facility Operating Record. These Plans and the corresponding regulations (20.9.2 - 20.9.10 NMAC) are required reading for SCLF management and supervisory personnel. This Plan has been updated as part of SCLF’s Application for Permit Renewal and Modification. Additional revisions to this Plan may be necessary in response to revisions in NMED Rules or policies, changes in waste types or volumes, or new technologies; and will be submitted for NMED review prior to implementation. Updated versions will be archived in the Facility Operating Records and disseminated as necessary.

TABLE II.2.2 - Landfill Management Plans

Permit Plans - The 13 plan sheets are provided as a 24-inch x 36-inch drawing set accompanying the Permit Application and as a reduced set in **Volume II.1**. The drawings are the key reference for short-term and long-term construction of the site and installation of the environmental control systems. An index of the Permit Plans is provided below:

| | Sheet | Title |
|--------------|--|--|
| | 1 | Cover Sheet and Drawing Index |
| | 2 | Site Plan/Existing Conditions |
| | 3 | Site Development Plan |
| | 4 | Site Development Plan – Unit IV |
| | 5 | Base Grading Plan – Unit IV |
| | 6 | Liner Details |
| | 7 | Liner & Leachate Collection System Details |
| | 8 | Leachate Collection System Plan |
| | 9 | Leachate Collection System Details |
| | 10 | Final Grading Plan |
| | 11 | Final Drainage Plan |
| | 12 | Drainage Details |
| | 13 | Cross-Sections |
| II.3 | Contingency Plan - This Plan enumerates specific emergency coordinators and contacts, procedures, response measures, etc. for potential contingency situations and unplanned events. | |
| II.4 | Construction Quality Assurance (CQA) Plan - This Plan provides the technical specifications for the installation, testing, and certification of the environmental control systems. | |
| II.5 | Closure/Post-Closure (C/PC) Plan - This Plan is significant to the Plan of Operations as site closure is an ongoing process conducted concurrently with routine operations. It also presents the procedures for post-closure care and monitoring, and Financial Assurance cost estimates for C/PC activities. | |
| II.6 | Landfill Gas (LFG) Management Plan - This Plan addresses the monitoring, and control strategies for LFG, include potential future beneficial use. | |
| II.7 | Leachate Management Plan - Leachate management includes stormwater segregation and leachate collection as well as monitoring, testing, and beneficial use of any leachate generated (e.g., dust control). | |
| II.8 | Special Waste Disposal Management Plans – “Disposal Management Plans” (DMPs) are required pursuant to 20.9.8 NMAC for each “special waste” stream proposed for acceptance at SCLF. These plans prescribe handling and disposal techniques specific to each of the two special waste streams: PCS and sludge. | |
| II.9 | Transportation Plan - Traffic flow to and within SCLF is addressed in this Plan, which also addresses adequacy of access routes to the Landfill. | |
| II.10 | Waste Screening and Inspection Plan – This Plan addresses identification of unauthorized (prohibited) wastes, and describes both the routine and focused screening and inspection process; as well as protocol to segregate, characterize, and manage unacceptable materials. | |
| II.11 | Composting Plan of Operations - This Plan prescribes specific infrastructure and operating practices for the approved organic waste Composting Systems. | |

2.0 PROJECT DESCRIPTION

SCLF is comprised of the following components, as shown on the Site Plan provided as **Figure II.2.2**; and depicted in detail on the **Permit Plans (Volume II.1)**:

- The SCLF solid waste facility footprint comprises approximately 178.3 acres \pm . The total solid waste disposal footprint for the site is 122.5 acres \pm .
- The currently proposed MSW disposal footprint includes four total Units (I-IV): and Units II, III, and IV are designed to include a composite liner and leachate collection and extraction system. Table II.2.1 identifies each Unit and associated acreages
- Unit I no longer receives solid waste and has been capped with intermediate cover and is being prepared for closure. Unit II has not reached final grade to-date, but has had intermediate cover applied. Unit III is currently in operation.
- Unit IV is a new proposed disposal area which will overlap Units I, II, and III and include a portion of the former Public Service Company of New Mexico (PNM) utilities easement.
- The existing exterior sideslopes for Units I and II are considered to have “intermediate cover” per 20.9.5.9.O NMAC. In addition, in most areas of these two Units the existing cover may meet the thickness (i.e., 36 inches) and sideslope (i.e., 25%) requirements for the currently approved cap design. Therefore, the existing grades for these exterior sideslopes are the most appropriate topographic tie-in for the Unit IV overfill cap. At this time, there are no expectations that the waste envelope will be extended in such a manner as to represent a future “vertical expansion” in Units I and II.
- Perimeter stormwater controls for run-on/runoff management including 3 stormwater ponds.
- Other Sandoval County Public Works infrastructure within the SCLF site boundary includes:
 - The Sandoval County Public Works Complex (i.e., Administration, Fleet Maintenance, etc.)
 - Waste Receiving Plaza (i.e., Scalehouse, Scales, Convenience Center, Employee Breakroom)
 - Convenience Center (public MSW transfer and recyclables)
 - Composting Office and Operations (including digesters, feedstock piles, and curing piles)
 - Supporting infrastructure (e.g., storage sheds, security fencing and locking gates, etc.)
- Existing environmental monitoring networks, including landfill gas monitoring at seventeen (17) perimeter gas monitoring probes (three newly installed in 2015) and sixteen (16) on-site structures, and groundwater monitoring for six (6) on-site groundwater monitoring wells.
- Permanent and temporary roads, culverts, fences, etc., designed for routine operating efficiency and security.

Detailed design data are provided in the **Permit Plans** (based on an updated 2014 topography) that establish the technical criteria and performance standards for cell construction, as well as specifications for general site development:

- Landfill cell and facilities layout
- Liners and leachate collection systems
- Stormwater management, including drainageways, culverts, and retention basins
- Site entrance, roadways, and waste receiving facilities
- Fencing, gates, and berms

Operating criteria for SCLF are presented in the same order in this Plan as the requirements listed in 20.9.3.8.C(6) NMAC, along with the appropriate regulatory citations.

3.0 PERMIT APPLICATION REQUIREMENTS

3.1 Odor Control and Mitigation

Modern landfill technology as routinely applied at SCLF is designed to reduce the generation of odors. Mitigation measures include encapsulation of waste to the smallest practical volume and routine application of daily, intermediate, and final cover. Five primary factors further reduce the potential for odor impacts:

- Waste characteristics
- Operating procedures
- Site location and arid climate
- Mode of delivery
- Low precipitation

The waste materials that are accepted for disposal are exceptionally dry for an MSW stream due to the semi-arid climate; the types of wastes received; and the planned diversion of organic waste (and potentially sludge) to the Composting Operation. One of the objectives of the Waste Screening and Inspection program described in Section 4.4 of this Plan is to identify and exclude materials that might cause odors, or to implement special operating practices (e.g., isolate the load and apply cover immediately). Specific “special wastes,” such as sludge and PCS, are managed in a fashion prescribed to reduce odor potential. These specific management practices are described in the corresponding Landfill Management Plans:

- Special Waste Disposal Management Plans (**Volume II.8**)
- Composting Plan of Operations (**Volume II.11**)

Routine landfill operating practices that mitigate potential odor generation and migration at SCLF

include:

- Direct incorporation of wastes into the fill face immediately after unloading to minimize short-term odors.
- Confinement of the waste to the smallest practical volume, including application of daily cover throughout the working day.
- Routine application of daily, intermediate, and final cover.
- Good housekeeping in managing fill face activities, litter, stormwater, etc.
- Use of bio-filters to control potential odors from the in-vessel Composting Operations.

The low inherent moisture content of the waste and the semi-arid climate produce a low rate of waste putrefaction and resulting landfill gas (LFG) generation. LFG monitoring procedures are implemented to detect potential gas migration, which is not likely to permeate the composite liner system. The Landfill Gas Management Plan, **Volume II.6**, details LFG monitoring procedures, precautions, response protocol, and potential collection for beneficial use.

The site's location further reduces the potential for odors generated by the Landfill to impact the public. There is a setback of over 850 feet (ft) ± from the solid waste boundary to the nearest residence to the west; and a setback of 520 ft ± from the solid waste boundary to the nearest residence to the south (see Siting, **Volume IV.1**). The presence of Paseo del Volcan and its right-of-way along the north perimeter ensures a minimum 500-foot setback from any future development to the north. Current downwind (i.e., to the north of SCLF) land use places potential receptors more than 2,000 ft from the existing and proposed operations areas. On-site berms help isolate the disposal operation, and aid in air dispersion at the perimeter.

The majority of commercial waste that is delivered to SCLF is contained in enclosed, leak-proof vehicles designed for hauling municipal solid waste. Waste is generally received at SCLF the same day as collected and thus has little opportunity for decomposition prior to disposal. Enforcement of the load-tarping requirement (i.e., untarped loads are subject to fees) serves to discourage uncovered vehicles from delivering waste to SCLF.

3.2 Landfill Equipment

Table II.2.3 identifies the equipment used for routine SCLF operations. This inventory has proven effective at managing ongoing construction and operations. Pieces of equipment may be added or subtracted from the inventory list corresponding to the rate of waste flow, projected earthmoving activities, changes in technology, etc. Some operating and construction functions, such as liner installation, are subcontracted to qualified firms.

The equipment inventory demonstrates both the redundancy and back-up capabilities of the on-site Landfill equipment. Following is a summary of functions and capabilities of the listed units:

- The compactor is a high-ground-pressure piece of equipment specially designed for waste receiving (i.e., compaction, daily cover application, and related fill face activities).
- The scrapers are used primarily for earthmoving activities, such as excavation of new cells and hauling of cover material from designated stockpiles. Scrapers deliver soil directly from the excavation of a new cell or stockpile to an area near the active fill face. The scrapers can apply daily, intermediate, and final cover at a high rate of delivery.
- Dozers are tracked pieces of equipment that are used to move soil and waste, usually for short distances. The dozers assist the scrapers in preparation of new cells, and can apply cover at the fill face. Dozers are versatile pieces of equipment that are also valuable in cover maintenance, road grading, maintenance of stockpiles, and waste compaction, as well as back-ups to the compactors, graders, and front-end loaders.
- Front-end loaders are used for earthmoving, cell construction support, and loading of the crusher/shredder. They can be used for excavation of soil or movement of waste, and for delivery and application of cover material. Front-end loaders can provide backup to scrapers and dozers, and can be used for road and drainage maintenance, if necessary.
- The water wagon is used on a daily basis to control dust that could originate from on-site roads and/or recently disturbed areas. Water sources for the wagon include hydrants located along the site's southern and western perimeters.
- The Morbark™ Woodhog® chipper (the "chipper") is used primarily for the size reduction of green waste delivered to SCLF for use as feedstock in the facility's in-vessel composting operation. The chipper is a portable unit that is operated in multiple locations at SCLF. **Figure II.2.2** shows the primary locations at which it is operated.

The Doppstadt™ crusher/shredder (the "crusher") is used near the daily fill face for size reduction of MSW prior to disposal. It is also used at other locations for crushing recycled concrete and asphalt (for use as alternate daily cover); or for crushing recycled basecourse (for facility roads, or other County projects). The crusher can also be used for size reduction of green waste and woody C&D debris to supplement the chipper. The crusher is operated at multiple locations at SCLF; **Figure II.2.2** shows the primary operating locations. NMED's Approval (01/13/2009) of the crusher is provided in **Attachment II.2.A**. Details describing the locations of stockpiled materials are provided in Section 5.16 (Waste Diversion).

Sandoval County Landfill
Application for Permit Renewal and Modification
Volume II: Landfill Management Plans
Section 2: Plan of Operations
February 2016 (Updated January 2019)

TABLE II.2.3 - List of Equipment

| Type | Number | Purpose |
|--|--------|--------------------------------------|
| Composting Operations | | |
| Morbark 3600 Woodhog | 1 | Green waste chipping |
| Mack Roll-off Truck-2005 | 1 | Composting |
| Compost Screen | 1 | Compost screening |
| Harsh Mixer | 1 | Feedstock mixing for composting |
| Landfill Operations | | |
| ALJON 81K Compactor | 1 | Waste compaction |
| CAT 623G Scraper | 1 | Earthmoving |
| CAT 613C Water Wagon (5,000 gal) | 1 | Dust control |
| CAT 623F Scraper | 1 | Daily cover operations |
| CAT 826G Compactor | 1 | Waste compaction |
| CAT 816B Compactor | 2 | Waste compaction |
| CAT D8N Bulldozer | 1 | Waste spreading/compaction |
| CAT Series II Scraper 615C | 1 | Daily cover operation |
| T800 Kenworth Water Wagon (3,000 gal) | 1 | Dust control |
| Tarpomatic MFG | 1 | Alternate daily cover |
| General Operations | | |
| Chevrolet Fuel Truck | 1 | Fuel delivery |
| Dodge Ram Pickup | 1 | Facility |
| Ford F150 Pickup | 1 | Facility |
| Ford Truck F150 | 1 | Facility |
| Ford Truck F250-2008 | 3 | Facility |
| Ford Truck F250-2001 | 1 | Facility |
| Generator-Briggs & Stratton | 1 | Power generator |
| GMC Truck-2005 | 1 | Recyclable storage/transport |
| Processing Operations | | |
| Dopstadt DW 3060 SA | 1 | Rock crushing/waste shredding |
| J. Deere 544G Loader | 1 | Earthmoving/shredder loading |
| Komatsu WA250 Loader | 1 | Earthmoving/shredder loading |
| BCA Industries PD1000TIF Tire Shredder | 1 | Shredding tires for ADC |
| Transport Operations | | |
| 100 yd ³ Fort McClain Trailer | 1 | Waste transport |
| Ford Roll-off Container | 1 | Waste hauling |
| K-Pack Pup Trailer | 2 | Waste transport |
| Recycle Trailer | 1 | Recyclable storage/transport |
| Volvo Auto Car Roll-off | 1 | Convenience Center waste |
| Various Containers | 15+ | Waste/recyclables, storage/transport |

Notes:

- Equivalent models may be substituted.
- The number of each equipment type is matched to the projected waste types and volumes; the list may be modified in response to changes in waste streams, etc.
- Equipment is subject to routine replacement.
- There are current arrangements with local equipment vendors for maintenance and leasing.

yd³ = cubic yards

- There are bins and containers ranging in size from 5 to 100 cubic yards, which are used for waste and recyclables storage and transport. There are tractors, tilt-frames, trailers, etc. used to transport materials both on-site and off-site.
- There is a fleet of pick-up trucks used by staff to assist in managing operations.

3.3 Waste Characteristics

Table II.2.4 lists current waste receipts sorted by type and approximate proportion. The Special Waste Disposal Management Plans (**Volume II.8**) provide waste characterization and management procedures for wastewater treatment plant sludge and petroleum contaminated soils, should they be accepted. Solid waste is delivered to SCLF from Sandoval County; Santa Fe County; Bernalillo County; several nearby Pueblos; and three off-site County-owned and operated Convenience Stations:

- Cañon
- Peña Blanca
- Cuba

SCLF receives commercially-delivered residential, C&D, landscape, and business-generated wastes. Self-haul waste represents a high proportion of daily traffic, particularly on Saturdays. Most of the self-haul waste is delivered by citizens from Sandoval County, nearby Pueblos, and Bernalillo County; as well as from the three off-site Convenience Stations. SCLF currently provides a drop-off for source-separated recycling at the Convenience Center. SCLF also diverts reusable and compostable materials (e.g., yard waste, woody C&D debris, asphalt, concrete, etc.) as described in Section 5.16 (Waste Diversion). Recyclables are also collected at Sandoval County's Cuba and Peña Blanca Convenience Stations and hauled to SCLF which are then diverted with the other incoming materials.

3.4 Sequence of Operations

The general sequence of site development using the "Area Fill" method is shown on the **Permit Plans** and described in **Table II.2.5**. The Area Fill concept is particularly applicable to Unit III, where all 4 cells (i.e., 4-7) have completed liners, leachate collection systems, and environmental controls in place. Essentially, the fill sequence will involve placing the "fluff lift" over newly constructed liner segments, and bringing the entire interim grade to establish a working platform that will provide the most efficiency, and will render individual cell limits as irrelevant and indistinguishable.

TABLE II.2.4 - Waste Characterization Summary¹

| Origin | 2014 Annual Waste Receipts (tons) | Approximate Proportion | Weekly Average (tons) ^{2,3} | Daily Average (tons) ^{2,3} |
|-------------------|-----------------------------------|------------------------|--------------------------------------|-------------------------------------|
| MSW | 34,375 | 28% | 661 | 114 |
| C&D | 77,828 | 63% | 1,497 | 258 |
| Clean Fill | 6,481 | 5% | 125 | 21 |
| PCS | 0 | 0% | 0 | 0 |
| Sludge | 0 | 0% | 0 | 0 |
| Brush/Green Waste | 5,742 | 4% | 110 | 19 |
| Tires | 20 | 0% | 0 | 0 |
| Totals | 124,446 | 100% | 2,393 | 412 |

Notes:

1. Data is based on the SCLF Annual Report for 2014, and is subject to change.
2. SCLF is open 6 days per week, and closed 10 holidays per year.
3. SCLF operates approximately 302 days per year.

The original approved Application (Weston, 1998) provides design data for the first three lined cells (i.e., Unit II, 20 acres ±), and transitioning out of the historic filling of Unit I. The 2005 Modification and Renewal Application (GEI) provides data for the continued filling of Unit II and transitioning of operations to Unit III (Cells 4-7, 63 acres ±), which is currently in operation. Each cell is equipped with a composite liner and leachate collection system as shown on the **Permit Plans**.

Cells have generally been developed in the sequence shown on the **Permit Plans**. Cells are developed in segments and combinations, and more than one cell may be in operation at any one time in response to incoming waste volumes and the progress of site development. When cells reach interim or final grade, additional cover will be applied as needed to achieve the required intermediate cover thickness, and the area will be graded and vegetated within two years. Soils, wastes, and sustainable resources may be temporarily stored and/or covered above interim grade; or used for permanent stabilization.

Currently, in addition to completed Units I and II, all of the Unit III fill area (i.e., Cells 4-7) has been constructed and is active. The new SCLF Operations Center is fully constructed and operational.

Attachment II.2.I provides both a plan view and cross-section illustrating the planned site development sequence. The ultimate development of Unit IV can be initiated at any time once the grades of adjacent Unit III reach an elevation of at least 20 ft vertical above the former PNM Easement although any established platform elevation for Unit III above that grade will accomplish

the design objectives. This is the target elevation/location for the overfill liner anchor trench on the north perimeter of the previous easement. **Table II.2.5** provides a summary of the Unit IV Permit Modification “Site Development Sequence”:

TABLE II.2.5 - Site Development Sequence – Unit IV

1. Continue filling in Unit III in active Cells 4-7 until the prevailing target grade (i.e., interim crown) is reached. This elevation will be at least 20 ft above the adjacent former PNM Easement, but may be significantly higher dependent on the rate of waste receipts, funding, etc.
2. Apply intermediate cover over Unit III interim crown, incrementally over areas that will not receive additional fill for two years, grade to drain, and stabilize.
3. Commence installation of Unit IV of floor liner (i.e., former PNM Easement) and overfill liner over Units I/II, and to the target elevation over Unit III as shown on the Permit Plans and Construction Plans. The layers, in ascending order, consist of:
 - Intermediate soil cover, minimum thickness 12-inches (except over former PNM Easement – Unit IV liner)
 - Structural soil fill where necessary to achieve liner design grades (depth varies)
 - HDPE structural geogrid
 - LFG collection layer: 200 mil geocomposite, 10 oz/cy geofilter on both sides
 - Reinforced geosynthetic clay liner (GCL) secondary liner
 - 60 mil HDPE geomembrane primary liner; textured on both sides
4. Secure all layers in temporary and permanent anchor trenches. Install “high permeability percolation trench” upgradient of anchor trench on Unit III/IV interface to provide a vertical pathway for leachate drainage to Unit IV collection system.
5. Place minimum 24-inch thickness of select protective layer soils in advance of waste placement
6. It is anticipated that Unit IV will be developed in phases such as Cells 8A, 8B, and 8C shown on **Attachment II.2.I**. Extend roadways and drainage controls as necessary.
7. Filling will continue in Unit III and developed portions of Unit IV until intermediate or final grades are reached. The final soil cover (i.e., landfill cap) is designed to meet prescribed “evapotranspiration” (ET) design and performance standards.

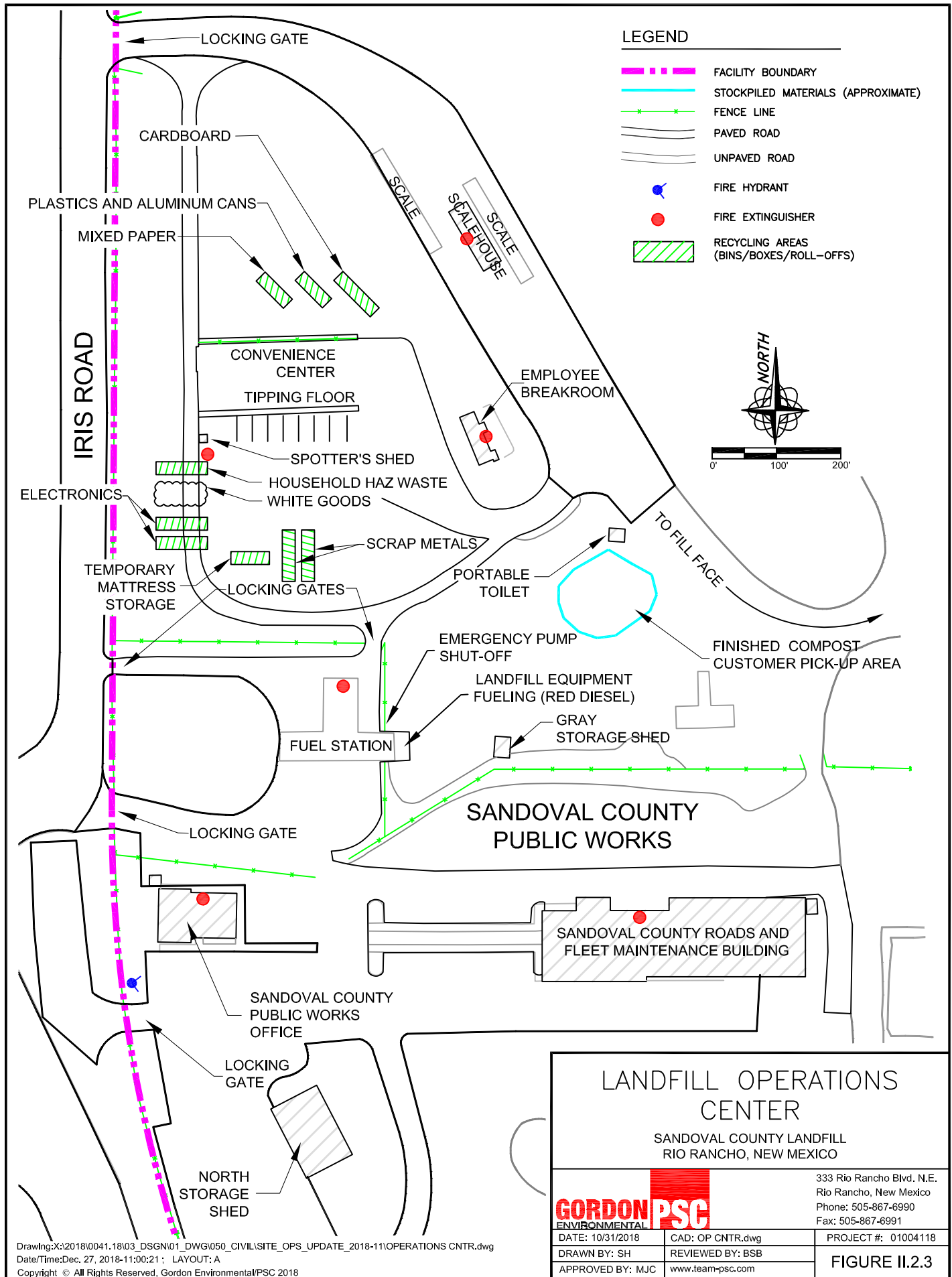
The fill progression is not related to edge of liner installation or demarcation. The rate of gate receipts, design capacity, longevity, etc. is provided in **Volume III.1** (i.e., Capacity Analysis, **Table III.1.1**; and Soil Requirements, **Table III.1.2** (Volumetrics, Materials Balance). The Engineer-of-Record determines the frequency and detail of as-built conditions, and the County has been conducting both ground and aerial surveys, typically at least every two years. Updated topographs will be provided to NMED.

The Annual Reports to NMED specifically respond to "loading rates", which are shown as assumptions on **Table III.1.1** (i.e., 450 tons/day). These rates fluctuate significantly due to construction activity natural disasters, special projects, etc. The design capacity for each cell consists of airspace between existing current elevations and final grade. The County has strategically constructed all of the Cells (i.e., 4-7) in Unit III, with certified liner and leachate collection systems. As planned in the "area fill" method, a moving platform will be developed vertically that renders the individual cell designations irrelevant. As shown on the Cross-Sections (**Permit Plans**), the airspace consists of continued filling of Unit III until the first liner segment of Unit IV is installed. The combined future waste capacity of the Units I, II, and Unit III overfill, and the constructed volume of Unit IV, is approximately 8.430 million yd³ (as of 01/2014); and they will be constructed concurrently (see **Table III.1.1**, Capacity Analysis).

3.5 Daily Operating Procedures

3.5.1 Scalehouse

Vehicles arriving at the facility enter on the paved entrance road at the site's northwest corner "Operations Center" (**Figure II.2.2**). This entrance provides direct access to the Scalehouse and supporting activities of the Landfill Operations Center (**Figure II.2.3**). Signs posted at the SCLF site entrance and Scalehouse identify prohibited materials and summarize the rules of conduct for customers while on-site (**Figures II.2.4A and B**). At the Scalehouse, incoming loads are evaluated, inspected, weighed and fees collected. Once cleared at the Scalehouse, vehicles proceed on interior roads to one of several destinations as discussed below.





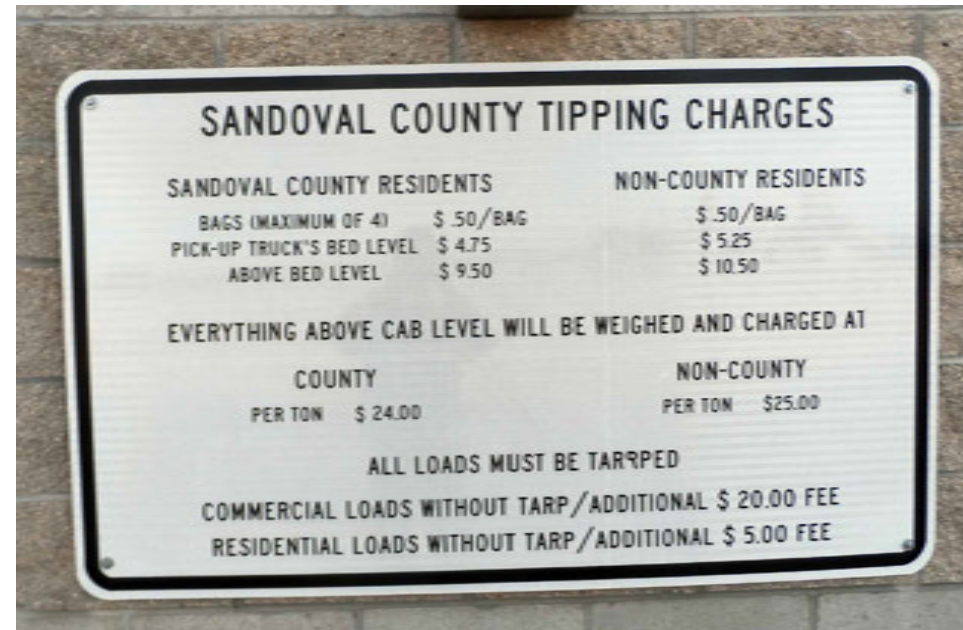
SITE ENTRANCE SIGNS

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

GORDON PSC
ENVIRONMENTAL

333 Rio Rancho Blvd. N.E.
Rio Rancho, New Mexico
Phone: 505-867-6990
Fax: 505-867-6991

| | | |
|------------------|-----------------------|---------------------|
| DATE: 11/06/2018 | CAD: SITE SIGNS A.dwg | PROJECT #: 01004118 |
| DRAWN BY: BSB | REVIEWED BY: MJC | |
| APPROVED BY: MJC | www.team-psc.com | FIGURE II.2.4A |



SITE ENTRANCE SIGNS

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| | | |
|------------------|-----------------------|---------------------|
| DATE: 11/06/2018 | CAD: SITE SIGNS B.dwg | PROJECT #: 01004118 |
| DRAWN BY: BSB | REVIEWED BY: MJC | FIGURE II.2.4B |
| APPROVED BY: MJC | www.team-psc.com | |

3.5.2 Convenience Center

Self-haul customers cleared at the Scalehouse are directed to the Convenience Center. The Convenience Center is designed for safe and convenient entry and exit by personal cars and trucks, as well as vehicles towing small to medium trailers. The Landfill's traffic layout is designed to segregate public from commercial traffic to maximize safety, as well as to provide efficient unloading at the fill face. The SCLF Transportation Plan is provided in **Volume II.9**, and includes traffic flow maps (**Figures II.9.2 and II.9.3**). Self-haul customers are charged on a cost-per-cubic yard basis when arriving at the Scalehouse. The current fee schedule is summarized in **Table II.2.6**, and the amended Ordinance #06-07-06.10.D upon which the fee schedule is based, is provided as **Attachment II.2.B**. Hours of operation and gate fee charges are subject to change.

The Convenience Center is constructed of an elevated, asphalt-covered parking area and concrete-lined tipping floor. In order to provide safe and efficient traffic routing, a spotter directs vehicles into appropriate unloading bays (**Figure II.2.3**). As wastes are unloaded, they are inspected for hazardous materials, prohibited wastes, hot loads, etc. Wastes unloaded on the tipping floor are pushed into adjacent roll-off containers using front-end loaders. The roll-off containers are positioned below grade (on a concrete pad). The containers are covered, weighed, and transported to the active fill face as needed and at the end of each operating day.

TABLE II.2.6 - Tipping Fee Schedule

| Facility | \$/ton | \$/yd ³ | Qualifiers |
|---|-------------------|--------------------|--|
| | Commercial | | |
| Sandoval County Landfill 505-867-0816 | 28.00 | 4.50 | in-county: loose |
| | 29.00 | 5.50 | out-of-county: loose |
| | 29.00 | 5.00 | in-county: compacted |
| | 30.00 | 6.00 | out-of-county: compacted |
| | 30.00 | 12.75 | in-county: concrete 2x2 ft or larger |
| | 31.00 | 13.75 | out-of-county: concrete 2x2 ft or larger |
| | Self-Haul | | |
| | | 4.75 | in-county: truck bed height |
| | | 9.50 | in-county: cab height |
| | | 5.75 | out-of-county: truck bed height |
| | | 11.25 | out-of-county: cab height |

*Note: Per the amended Sandoval County Ordinance #06-07-06.10.D (**Attachment II.2.B**).
Subject to change.*

3.5.3 Source-Separated Recycling

Self-haul customers can bring their source-separated recyclables to the Convenience Center during regular operating hours (7:00 a.m. to 4:00 p.m., Monday through Saturday). Approximately 42 tons of recyclable materials (based on 2014 receipts) are accepted each month at the Convenience Center. These materials are transported to various markets as described in Section 3.5.3.3.

3.5.3.1 Convenience Center

Self-haul customers delivering recyclable materials and/or MSW to SCLF are directed to an area adjacent to the Convenience Center tipping floor that is reserved for collecting source-separated recyclables (**Figure II.2.3**). This area is equipped with individual recycling bins or designated areas for the items identified in **Table II.2.7**. The Convenience Center is open during regular SCLF operating hours (i.e., 7:00 a.m. to 4:00 p.m., Monday through Saturday). The Convenience Center does not accept tires at this time, but may do so in the future. Tires are only accepted at the scrap tire shredding area and the shredded tires are disposed at the fill face. The portable tire shredder is a County-owned piece of equipment that used on an as-needed basis at SCLF when not deployed elsewhere throughout the County.

TABLE II.2.7 - Recyclable Materials¹

| | |
|--------------------|--|
| • Clothing | • Books |
| • Cardboard | • Mixed Paper |
| • Plastics | • Tires ² |
| • Aluminum | • Appliances (including Freon containing) |
| • Electronic Waste | • Mattresses |
| • Scrap Metals | • Household Hazardous Waste (HHW) ³ |

¹ This list may be updated routinely and posted at the site.

² Tires are currently accepted at the scrap tires shredding area.

³ Details of the HHW collection program are provided in **Attachment II.2.C**.

3.5.3.2 Other Recycling

The County also currently provides recycling opportunities at the Cuba and Peña Blanca Convenience Stations. Convenience station customers may deposit their source-separated recyclables in the Pro-Tainer collection trailer stationed at each site. The trailer has a volume of approximately 18 yd³, and is divided into three compartments (plastic, cardboard, and aluminum). Acceptable recyclables include cardboard, aluminum, tin cans, and #1 and #2 plastics. Recyclables accepted at the Convenience Stations are transported to SCLF and combined with recyclables managed at the Landfill's Convenience Center. In addition to the organics diversion and recycling initiative, tire management is under consideration.

3.5.3.3 Disposition of Recyclables

Recyclables are stored temporarily in leak-proof and non-biodegradable bins or roll-off boxes until ready for transport. When ready, the containers are transported by the County or by a third-party hauler to an appropriate facility for sale and processing. Currently, the firms listed in **Table II.2.8** are providing recycling services to the County (subject to routine update).

3.5.4 Composting Operation

The Composting Operation utilizes designated areas (see Site Plan, **Figure II.2.2**) for equipment and material storage that are required for the production of compost. At SCLF, compost is produced using a state-of-the-art aerobic, in-vessel treatment process as detailed in the Composting Plan of Operations (**Volume II.11**). The County also conducts mortality composting of animal carcasses above Cell 4B (**Figure II.2.2**), as described in the Composting Plan of Operations (**Volume II.11**).

TABLE II.2.8 - Recycling Firms

| Material(s) | Recycler Name | Location | Average Frequency |
|---|--------------------------------------|-----------------|-------------------|
| Cardboard, mixed paper | Master Fibers | Albuquerque, NM | Every 2 months |
| Aluminum, steel, scrap metal, batteries | Rio Rancho Recycling | Rio Rancho, NM | Once per month |
| White goods | Alpha Appliances | Albuquerque, NM | Once per month |
| Electronics recycling | Albuquerque Recycling | Albuquerque, NM | Once per month |
| Plastics | Freidman Recycling | Albuquerque, NM | Once per month |
| Tires | Disposal at Sandoval County Landfill | Rio Rancho, NM | Once per month |
| HHW | Advanced Chemical Transport | Albuquerque, NM | Twice per month |

Note: subject to change based on recyclables receipts, market conditions, etc.

3.5.5 Active Disposal Area

Commercial waste loads are weighed at the Scalehouse, and each vehicle is reviewed for compliance with site rules (e.g., tarps, suspicious materials, “hot” loads). The commercial waste vehicles then proceed on constructed interior roads in accordance with signs and direction by landfill personnel until reaching the active fill face for unloading. Following unloading, commercial waste vehicles return to the Scalehouse where they are weighed and assessed a disposal fee.

In certain cases (e.g., divertibles), vehicles may be directed to the designated stockpile areas (**Figure II.2.2**) to unload select C&D debris, asphalt, concrete, and large green waste (stumps) for

processing through the crusher/shredder; and for volume reduction of other materials (e.g., MSW, mattresses, tires, carpets, etc.). The crusher/shredder is mobile and is used at varying locations depending on operational needs and the materials to be processed (e.g., volume and unprocessed material location) and future use and storage location of the processed material. For example, recycled concrete and asphalt may be used as basecourse for facility roads, or as alternate daily cover. Recycled material may also be used for other County projects (i.e., erosion control, road basecourse, etc.). Refer to Section 5.16 for a detailed description of Waste Diversion activities.

The **Permit Plans** illustrate that SCLF has been successfully using the “area method” of filling in vertical lifts in prepared Cells. The first lift of refuse placed over a newly constructed liner segment (i.e., “fluff layer”) is a minimum of 5 ft in thickness, and is carefully worked out over the leachate collection protective soil layer (PSL) from the edge of the cell (i.e., uncompacted). The first lift of waste over the leachate collection pipe may be pushed off from prior fill areas to avoid landfill equipment traffic driving over the pipe. If necessary, temporary “ramps” of refuse and/or clean fill are constructed over the leachate pipes and PSL in order to facilitate traffic flow. The waste in the first lift is carefully inspected to ensure that waste types that could impact the liner system (e.g., construction debris) are excluded from the initial lift. This layer is placed in a manner that protects the liner and leachate collection system. Waste placement in landfill cells generally moves from the lower (downgradient) portions of the cell to the higher (upgradient) portions.

With the exception of the first lift of MSW, which is spread on a newly constructed cell, waste is compacted in shallow lifts (e.g., 2 – 3 ft thick) by specialized waste compaction equipment. Repeated passes by the waste compactor or dozer consolidate the material to the smallest practical volume. This practice confines the dimensions of the working face; maximizes the use of available capacity; reduces the potential for future settlement; and limits the amount of daily cover required.

The width of the active fill face is maintained to the minimum dimensions necessary to accommodate traffic. At waste receipt rates of 412 tons per day (tpd; **Table II.2.4**), the unloading area is generally controlled at 100 ft to 200 ft wide to accommodate peak hourly traffic. Daily cover (see Section 5.0 of this Plan) is typically applied on compacted waste throughout the working day in order to confine the exposed waste surface to the minimum practical dimensions.

3.6 Waste Capacity and Longevity

Current landfill waste characterization data (**Table II.2.4**) was used to project future waste

volumes and material types. The most recent data from the 2014 Annual Report indicate an average waste acceptance rate of approximately 412 tpd (see **Table II.2.4**).

SCLF volumetrics data (**Volume III.1**), which are reproduced here as **Table II.2.9**, summarizes capacity and longevity calculations for the approved engineering design. In order to provide conservative projections, capacity and longevity calculations are based on an equivalent waste acceptance rate for the six operating days each week. Capacity and longevity calculations were performed at two different loading rates:

- 350 tpd
- 450 tpd

Based on the rates of waste receipts, both the remaining capacity of Unit III, and the new capacity of Unit IV are each equivalent to about 23 million cy. This equates to about 34 years of longevity at gate receipts of 450 tpd.

There are many factors that may have an impact on the duration of operations of SCLF. For example, population growth, new industrial development, closure of other facilities, introduction of new waste streams, natural disasters, and increased diversion rates, etc. each have the potential to increase or decrease the rate at which airspace is depleted.

In response to these factors, the County has undertaken significant upgrades for waste diversion and recycling at SCLF:

TABLE II.2.9 - Volumetrics

| Description | Fill Area (acres) ± | Approximate In-Place Waste and Soil Fill (yd ³) ¹ | Remaining Gross Airspace (yd ³) | Total Cover (yd ³) ² | Remaining Waste Capacity Airspace (yd ^{3,3,4}) | Remaining Waste Capacity Airspace (tons) ⁵ | Remaining Longevity Estimate (years) ^{6,7} | |
|----------------|------------------------|--|---|---|--|---|---|----------------|
| | | | | | | | @ 350 tons/day | @ 450 tons/day |
| Landfill | | | | | | | | |
| Unit I | 29.4 | 3,500,000 | 0 | 87,604 | 0 | 0 | 0 | 0 |
| Unit II | 19.5 | 2,000,000 | 0 | 64,372 | 0 | 0 | 0 | 0 |
| Unit III | 63.6 | 2,930,000 | 5,091,000 | 992,388 | 4,098,612 | 2,254,237 | 21 | 17 |
| Unit IV | 10.0 | 0 | 6,552,000 | 1,849,095 | 4,277,905 | 2,352,848 | 22 | 17 |
| Landfill Total | 122.5 | 8,430,000 | 11,643,000 | 2,993,459 | 8,376,517 | 4,607,084 | 44 | 34 |

Notes:

1. Approximate in-place waste and soil reported for Units I, II, and III as of the January 2014 aerial topography. Volumes for Units I and II are geometric estimates.
2. Includes protective soil cover, daily cover, intermediate cover, and final cover and approximately 425,000 cy structural fill to attain Unit IV base grades. For Units I and II, only final cover is considered over the sideslope areas. Total cover volumes are summarized in **Table III.1.2**.
3. Total Waste Capacity for Unit III = Remaining Gross Airspace - Total Cover; Total Waste Capacity for Unit IV = Remaining Gross Airspace - (Total Cover - 425,000 cy of Structural Fill).
4. Total Waste Capacity for Unit IV = Remaining Gross Airspace - Total Cover - 425,000 cy of Structural Fill.
5. Waste density assumed to be 1,100 lbs/cy.
6. 350 tons/day = 105,700 tons/yr based on 302 operating days/year.
7. 450 tons/day = 135,900 tons/yr based on 302 operating days/year.

- New Landfill Operations Center. The new Landfill Operations Center (**Figure II.2.3**) began operations in February 2010, and is designed for in-bound public vehicles delivering waste and recyclables that were previously accepted at the site's Public Convenience Center, enhancing public safety and increasing waste diversion rates.
- Ongoing Containerized Composting Operation enabling the diversion of green waste and woody C&D debris from the incoming waste stream, and capable of producing up to 10 tons per day of compost and are designed to manage sludges as a feedstock to divert them from landfill disposal.
- Future expansion of the containerized Composting Operations to include up to 34 digesters and 10 bio-filters which will be capable of producing up to 75 tpd of compost.

3.7. Waste Disposal Alternatives

SCLF has proven to be an all-weather facility under nearly all conditions over the site's operating history. The site's layout, paved roadways, and operating practices provide flexibility with regard to fill face location and access. In the event of a temporary disruption to service (from storms or high winds, for example), the following alternatives are available:

- A designated contingency disposal fill face that is accessible to established roadways would be selected.
- The extensive equipment available for daily operations (see **Table II.2.3**) includes significant back-up for any unplanned downtime.
- Additional waste compacting and earthmoving equipment can be mobilized from other County departments (e.g., Public Works), or can be leased under routine arrangements with suppliers.
- Temporary storage of waste at the fill face could be implemented to address short-term equipment shortages or breakdowns. In the unlikely event that solid waste is temporarily stored, it will be covered (e.g., with a tarp) or containerized to prevent blowing litter and vector harborage. Temporary storage is not anticipated to exceed two weeks. Solid waste stored longer than two weeks within the landfill footprint will be covered with a minimum of 12-inches of soil or approved alternative daily cover.
- Waste compaction and covering tasks could be extended beyond normal hours to complete the day's activities.
- Waste deliveries could be delayed until collection routes are cleared of snow.

In the unlikely event of complete disruption of vehicle access to the site, commercial waste traffic could be diverted to other local permitted facilities, such as the Rio Rancho Landfill. Self-haul customers typically delay their deliveries to the next available working day, or seek other alternatives.

3.8 Operating Hours

SCLF conducts waste acceptance operations from 7:00 a.m. to 4:00 p.m., Monday through Saturday. SCLF is closed on Sundays and ten (10) NM holidays. During times of inclement weather (e.g., high winds), operating hours may be restricted. Landfill operations will cease when there is a sustained wind speed measurement of 30 miles per hour (mph) for at least 30 minutes; or when wind gusts equal or exceed 45 mph, measured using on-site equipment. The site's hours of operation are posted at the site entrance and are subject to routine review and revision by the County (see <https://www.sandovalcounty.com/departments/public-works/solid-waste> for current data. Site maintenance and construction activities, including application of daily and intermediate cover, and processing of compostable material, may extend beyond the time that the facility is open for receiving waste.

3.9 Waste Transport

The road network used to access SCLF is described in detail in the Transportation Plan, **Volume II.9. The Permit Plans** show the locations and grades for the temporary and permanent roadway network of the site. Some of the roadway segments may be paved or treated with basecourse materials (e.g., crushed aggregate) if extensive use is anticipated or for dust management; and all roads are sloped to direct runoff into the adjacent drainage ways. The roadway network encompasses the entire perimeter to provide access to both landfill cells and monitoring points. Maximum slopes on permanent roads are 8%, although temporary ramps may be constructed up to 15%. Surfacing for temporary and permanent roadways may include gravel, millings, crushed aggregate or recycled asphalt that has been processed with the crusher/shredder, or other suitable materials. The 40-yd³ roll-off containers from the Convenience Center are covered, weighed and transported to the active fill face at the end of each operating day, or as needed as a method to minimize public traffic to the fill face.

4.0 GENERAL OPERATION REQUIREMENTS

This Plan of Operations provides a narrative and tabular presentation of planned operating practices that update operations to the new standards of 20.9.2 – 20.9.10 NMAC. The **Permit Plans** provide graphic detail regarding SCLF design and operations.

4.1. Protection of Public Health, Welfare, and the Environment

The primary objective of this Plan of Operations is to ensure the protection of public health, welfare, and the environment. Modern landfill technology, as conducted specific to SCLF, has been proven to reduce or eliminate potentially negative impacts resulting from operations.

SCLF is located, designed and operated in a manner that does not cause a public nuisance or create a potential hazard to public health, welfare, or the environment, as demonstrated by its successful historic operations. The following engineered measures employed in the design provide additional mitigation:

- Significant setbacks from nearby land uses and strategic buffer zones
- Liners and leachate collection systems
- Stormwater management systems with detention and sedimentation prior to discharge
- Monitoring programs for groundwater, landfill gas, environmental impacts, etc.
- Visual and noise screening created by setbacks, selective operational sequencing, berms, etc.
- Daily, intermediate, and final cover

Compliance with 20.9.4.9 NMAC siting criteria, and compatibility with local land use and zoning, is documented in **Volume IV** (including the mandatory Vulnerable Area Assessment).

4.2. Posting of Signs

Signs posted at the entrance to the facility clearly indicate the location of the landfill, hours of operation, and emergency telephone numbers (**Figure II.2.4A and B**). Additional site rules and information are posted along the access and haul roads to advise drivers of limitations concerning speed limits, prohibited activities and wastes, disposal instructions, etc.; and that fires and scavenging are prohibited. SCLF on-site signs include, but are not limited to those listed below in **Table II.2.10**:

TABLE II.2.10 - Site Signs¹

- Sandoval County Public Works Landfill Entrance (includes site location, hours of operation, and phone number)
- Sandoval County Not Responsible for Accidents or Injury Incurred on County Property
- Sandoval County Landfill Operating Hours, phone number, emergency phone numbers
- Sunday Closure
- Hand Loads Larger than a Pickup Truck - information
- Sandoval County – rules
- Cash Only
- Unauthorized waste – information
- Stop signs
- One vehicle on scale at a time
- All vehicles with trailers must get on the scale
- Sandoval County Tipping Charges, including load tarping information and fees
- Speed Limit 15 mph
- Follow Spotters Instructions
- Fires and Scavenging Prohibited

Note: ¹Examples only; signs and locations subject to change; list is not all-inclusive.

4.3. Operator Certification

Full-time supervisory personnel employed at SCLF are certified as required by 20.9.7 NMAC and may have completed supplemental applicable training (**Table II.2.11**). These individuals are knowledgeable in site construction and operations, and are required to demonstrate familiarity with:

- Rules applicable to SCLF, and specifically 20.9.2 – 20.9.10 NMAC (and any successors).
- This Application for Permit, most particularly the **Permit Plans** and the Landfill Management Plans provided in **Volumes II.2-II.11**.
- The NMED Solid Waste Facility Permit (**Attachment I.1.A**) and any related Permit Conditions (**Attachment I.1.B**).

Each supervisor and operations employee at SCLF is encouraged to participate in pertinent Solid Waste Facility training and become a Certified Operator. Following completion of Certified Operator training by any landfill employee, documentation of this training is placed in the Facility Operating Record. Employees of SCLF are trained upon hire and annually thereafter and training is documented on a form equivalent to the one provided as **Attachment II.2.K**. Training topics include the Plan of Operations, Special Waste Disposal Management Plans, Edge of Liner Inspections, Waste Screening and Inspection Plan, etc. **Table II.2.11** provides a list of current Certified Operators, with Certificates provided in **Attachment II.2.D**.

TABLE II.2.11 - Certified Operators

| Certified Operator | | Expiration Date |
|--------------------|--------------------------------|-----------------|
| Robert M. Sanchez | Landfill Operator | 3/28/2019 |
| | Recycling Facility Operator | 5/13/2019 |
| | Compost Facility Operator | 2/7/2020 |
| | Integrated Solid Waste Manager | 8/15/2021 |
| | HAZWOPER | 5/16/2019 |
| Christopher Perea | Landfill Operator | 4/3/2019 |
| | Recycling Facility Operator | 1/8/2019 |
| | Compost Facility Operator | 11/10/2020 |
| | HAZWOPER | 4/18/2019 |
| Orlando R. Pino | Landfill Operator | 9/19/2021 |
| | Compost Facility Operator | 4/19/2021 |
| Mark Hatzenbuhler | Landfill Operator | 01/14/2022 |

Note: This list is routinely updated.

4.4 Waste Screening and Inspection

SCLF's Waste Screening and Inspection Plan is provided as **Volume II.10**. The Waste Screening and Inspection Plan has been developed in accordance with 20.9.5.8.B(2-7) NMAC, including load inspection details (i.e., method, frequency, personnel) and a training program for the identification of unauthorized waste. In accordance with that Plan, SCLF personnel will visually inspect waste during placement on the working face and operators are trained to identify and segregate suspect materials.

As described in **Volume II.10**, if unauthorized materials are discovered, the Landfill Manager will be notified, and the NMED, Hauler, and Generator will be notified in writing within 48 hours per 20.9.5.8.B(5)(a) NMAC. In addition, the area will be restricted from public access and from facility personnel, per 20.9.5.8(B)(5)(b)NMAC, and the County will affirm that proper cleanup, transport and disposal of waste will be assured, per 20.9.5.8(B)(5)(c) NMAC. Random load inspections are conducted on a weekly basis to determine the presence of unauthorized materials. A minimum of one load per day, or one percent of all the incoming loads per day (whichever is greater), is selected for inspection and recorded on a Solid Waste Load Screening Form (**Figure II.2.5**) and maintained as part of the Facility Operating Record.

FIGURE II.2.5
SANDOVAL COUNTY LANDFILL
STATE MANDATED

DATE: _____ WASTE INSPECTION TIME: _____

“WARNING”

THIS IS NOT AN OPTION

NEW MEXICO SOLID WASTE REGULATION 20.9.5.8 REQUIRED RANDOM INSPECTIONS
 OF WASTE BE PERFORMED

SANDOVAL COUNTY LANDFILL **DOES NOT** accept loads containing materials suspected,
 recognized or defined as **MEDICAL, HAZARDOUS, TOXIC, LIQUID, PETROLEUM BASE,**
INDUSTRIAL, OR ANY OTHER WASTE OR PRODUCT RECOGNIZED BY THE EPA; STATE, OR
LOCAL REGULATIONS AS RESTRICTED WASTE FOR THIS FACILITY!

THE undersigned affirms that no such waste as described above is being disposed of at this facility, and if during inspection any described materials is located, discovered OR suspected either by concealment or by placement in error in vehicle inadvertently, the undersigned as a representative of the named company assumes all responsibility of legal and or professional fees for the proper removal and disposal of such waste along with any cost incurred by SANDOVAL COUNTY LANDFILL.

| NAME OF COMPANY | VEHICLE MAKE | COLOR | ID# | LICENSE PLATE |
|-----------------|--------------|-------|-----|---------------|
| | | | | |

GENERAL INFORMATION

| DATE | TIME | | WASTE |
|----------------|------|-----|------------------------------|
| | | | ORIGINATION: LOCATION OF BIN |
| ODOR PRESENT | YES | NO | |
| LOAD CONDITION | WET | DRY | |
| | | | |

| C/D WASTE | | CLEAN FILL | | OTHER WASTE | | MIS. |
|------------|--|------------|--|-------------|--|------|
| CARPET | | CONCRETE | | METAL | | |
| DRY WALL | | DIRT | | FURNITURE | | |
| ROOFING | | GRAVEL | | RESIDENTAL | | |
| FLOORING | | SITE | | WH. GOODS | | |
| PIPE METAL | | CLEARING | | YARD | | |
| PIPE | | | | STUMPS | | |
| PLASTIC | | | | | | |
| LUMBER | | | | WIRE | | |

| | | |
|-----------------------------------|------------|-----------|
| UNAUTHORIZED WASTE LOCATED | YES | NO |
| ACTION REQUIRED | YES | NO |

| UNAUTHORIZED WASTE DESCRIPTION |
|--------------------------------|
| |
| |
| |
| |
| |

DRIVERS SIGN _____ DRIVER PRINT _____

INSPECTOR SIGN _____ INSPECTOR PRINT _____

At least one of the weekly random load inspections will be conducted on a load of special waste (i.e., PCS or sludge waste), if received. Special waste inspections include review of the Special Waste Manifest and the Special Waste Acceptance Application (**Attachment II.8.A**). Documentation of special waste inspections will be recorded on the Special Waste Inspection Form (i.e., **Attachment II.8.C**) and maintained as part of the Facility Operating Record. Waste screening and inspection is detailed in **Volume II.10**.

5.0 MUNICIPAL SOLID WASTE LANDFILL OPERATION REQUIREMENTS

5.1 Fill Face Compaction

This Plan of Operations addresses daily fill face activities in detail. The prescribed procedures to confine the working face to the smallest practical area, and achieve complete compaction of the waste, include:

- Establish fill face width adequate for peak daily traffic flow (safe truck width = 30 ft ±).
- Install lifts in thin layers (2 ft – 3 ft ±), with slopes no steeper than 3:1; with the exception of the initial “fluff layer” (5 ft thick ±) over the liner.
- Consolidate waste with repeated passes of specialized waste compaction equipment.
- Apply cover throughout the working day to reduce exposed waste surface.
- Take precautions to protect installed liner systems, piping, monitoring points, etc.
- If accepted, sludge will be deposited directly onto the working face on top of at least 10 ft of MSW; commingled with other MSW; and topped with 6 inches of daily cover (see **Volume II.8**).
- Treated PCS may be deposited at the working face or beneficially used as daily or intermediate cover (see **Volume II.8**).

5.2 Landfill Gas Management

The Landfill Gas Management Plan, **Volume II.6**, describes the monitoring systems and protocol that are used to ensure continued compliance with 20.9.5.9.B NMAC. The routine methane monitoring program, which includes quarterly readings for permanent monitoring points and structures, meets or exceeds the requirements of 20.9.5.9.C NMAC.

5.3 Security and Access Control

SCLF is fenced on all perimeters with a 6-ft chain link topped with 3-strand barbed wire to preclude access. The entrance is secured with an automatic locking gate and the **Permit Plans, Sheets 2** and **3** show the location of existing fencing, gates, and other access control measures. Locking gates are secured at all times when the facility is not operating.

5.4 Stormwater Management

Annual precipitation in the vicinity of the site averages approximately 10.07 inches per year based on available precipitation measurements from Corrales, NM (**Table IV.2.1**) located approximately 4.5 miles south of SCLF. Both the run-on and run-off control systems that service SCLF have been designed to manage flow in excess of that generated by the 25-year, 24-hour design storm. The engineering design for the stormwater management systems that are reflected on the **Permit Plans** are confirmed to meet applicable regulatory criteria as demonstrated in **Volume III.8** (Drainage Calculations) and **III.6** (Erosion Calculations).

Additional operating considerations include:

- Installing drainage devices in accordance with the **Permit Plans**
- Cleaning, clearing, and maintaining culverts and drainage ways
- Installing temporary sedimentation control devices during construction
- Routine cleaning of silt and debris from basins and drainage ways

A Stormwater Pollution Prevention Plan (SWPPP) has been developed for SCLF to satisfy the permitting requirements listed in the 2008 *United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) for Industrial Activities*. The purpose of the SWPPP is to:

- Identify potential sources of pollution, which may reasonably be expected to affect the quality of stormwater discharges from the Landfill
- Assure compliance with the terms and conditions of the 2008 MSGP for industrial activities
- Describe and ensure implementation of practices (i.e., inspections, monitoring, and reporting) which will be used to reduce the pollutants in stormwater discharges from the Landfill

In addition, a Spill Prevention, Control, and Countermeasures (SPCC) Plan has also been prepared for SCLF to establish the procedures and equipment required to prevent discharge of oil and hazardous substances in quantities that violate applicable water quality standards; cause a sheen upon or discoloration of the surface of navigable waters or adjoining shorelines; or cause a sludge or emulsion to be deposited beneath the surface of the water of adjoining shorelines. The SPCC Plan also establishes the activities required to mitigate such discharges should they occur. Copies of the SWPPP and SPCC Plan are included in the Facility Operating Record maintained on-site.

5.5 Scavenging

Scavenging is strictly prohibited at SCLF, as stated on the sign along the road to the fill face, and controlled by Landfill staff at the daily fill face and Convenience Center.

5.6 Fire Prevention and Control

The Contingency Plan (**Volume II.3**) provides detailed procedures regarding fire prevention and control. Steps to prevent and control fires are summarized on **Table II.2.12**.

TABLE II.2.12 - Fire Prevention and Control

1. Fire Prevention Measures

- Routine cleaning of debris from equipment radiators.
- Random inspections of incoming loads at the Scalehouse to prevent unauthorized waste acceptance.
- Training of equipment operators to identify suspect “hot” loads and measures for mitigation (e.g., cover smoldering waste with stockpiled soil).
- Training of site personnel in waste screening, flammables identification, etc.
- Routine communications with fire and ambulance support personnel.

2. Fire Control Procedures

- The placement and maintenance of ABC type fire extinguishers in all mobile equipment and on-site structures.
- Locating cover material stockpiles near the working face that can be used to smother fires.
- Ensuring water availability from the water wagons and fire hydrants.
- Implementation of a site-wide communication network to optimize mobilization of appropriate response personnel and equipment.
- Employee training on fire response techniques, notification procedures, fire response equipment, etc.
- Well established emergency response procedures.

5.7 Hot Loads

"Hot" loads contain materials that show evidence of smoke, smoldering, smoky odor, cinders, etc. upon arrival at SCLF. Immediately upon arrival and/or identification of a hot load, it is directed to a designated area separate from the daily fill face or the Convenience Center and near one of the on-site access roads. The location of the hot load management area will be changed from time to time as SCLF operation progresses.

The material will be unloaded and inspected pursuant to the Waste Screening and Inspection Plan (**Volume II.10**), and any unusual characteristics will be observed and noted. The material will either be smothered with earth or doused with water to extinguish any remaining fire. Prior to disposal at the fill face, the material will be uncovered and inspected. If there are no threats to health and safety, no evidence of smoke or fire, and the heat has diminished sufficiently, the load will be incorporated into the daily fill face. If there are any concerns associated with the load or the cause of the fire, the load will be isolated and covered by soil or tarping for subsequent testing and evaluation. An incident report will be recorded in the permanent Facility Operating Record. SCLF will notify the SWB both orally and in writing within 24 hours of an occurrence of a spill, fire, flood, explosion, mass movement of waste, or similar event.

5.8 Access Roads

Section 3.9 of this Plan describes the site access roadways, entrance, etc., which are also shown on the **Permit Plans**. Permanent roadways are typically constructed of asphalt pavement over a select aggregate basecourse. The cell access roads and other temporary on-site access roads are constructed of gravel basecourse, crushed aggregate, recycled asphalt, processed C&D, or other suitable materials. The roads are watered regularly for dust control and graded on a routine basis. These actions ensure that truck traffic is safe and is not interrupted by inclement weather. Both temporary and permanent roadways will be extended to access new areas in advance of need. These roads will be constructed and maintained in the same proven manner as existing roads. Permanent roadways have slopes that do not exceed 8%, although some temporary ramps may be constructed up to 15%.

Routine inspection and maintenance of access roads is performed on a frequent basis in order to provide for free flow of traffic under most foreseeable weather conditions. In addition, stockpiles of road materials are maintained on-site, including, but not limited to, gravel basecourse, caliché, crushed aggregate, and recycled asphalt, processed C&D, etc. The roads are crowned to drain run-off into the permanent roadside drainageways, and then to the site's stormwater control systems.

Traffic is routed to a designated wet-weather disposal area during periods of inclement weather or when operations in the area of the active fill face become hindered. Lined areas adjacent to the haul roads may be used as designated wet-weather waste disposal areas, as determined on an ongoing basis by the Landfill Superintendent. Only areas that have certified liner segments

and leachate collection systems will be used for disposal. The haul roads, access roads, and ramps may be relocated as filling progresses.

5.9 Unloading Areas

The width of the daily fill face is the key constraint in minimizing the turn-around time at SCLF. Experience has shown that a fill face width of 100 to 200 ft is adequate to meet peak short-term demand for commercial vehicles, while most self-haul traffic is diverted to the Convenience Center. At times, more than one fill face may be operational in order to maintain a safe and efficient traffic flow. Site personnel and signs direct vehicles to the appropriate unloading locations.

5.10 Leachate Management

Leachate is collected and managed in accordance with the Leachate Management Plan, **Volume II.7**. The **Permit Plans** provide details of the collection and system design. Pipe Loading Calculations in **Volume III.5**, confirm the efficacy of the proposed installations. Leachate management during the operational phase includes pumping as necessary (minimum of at least quarterly) to tank trucks followed by approved beneficial uses such as recirculation at the active fill face, dust control over lined areas, and composting operations feedstock. Following closure, leachate (if produced) will be disposed of by means approved by the Secretary; which may include the use of a publicly owned treatment works (POTW) or other permitted disposal facility. Recordkeeping forms for leachate management are included with **Volume II.7**, and measurements are recorded from active sumps at least quarterly.

The County installed several state-of-the-art automated and manual leachate extraction system components for Unit III/Cell 7. The Cell 7 sump includes a dedicated leachate pump (i.e., EPG Sure Pump™) equipped with a built-in fluid level sensor (i.e., pressure transducer) that transmits a digital signal to the dedicated control panel powered by a portable generator. When the digital readout indicates that the fluid level on the liner meets or exceeds 12 inches, site personnel are prompted to activate the leachate pump manually. In the future, the County may construct similar automated extraction systems for Unit III; Cells 4A, 5A, & 6A; and new Unit IV. **Attachment II.7.C** provides detailed installation and operational specifications for each of the site's leachate extraction system components.

5.11 Litter Management and Control Plan*

***This Plan has been updated; the updated plan is included at Attachment II.2.M.** Blowing litter is controlled by a number of both preventive and maintenance techniques at SCLF. The design of the Convenience Center requires wastes to be handled at or below grade, thereby limiting the potential for litter generation. The fence surrounding the property also serves to control litter downwind of the active area, as fill operations progress to a higher elevation. In addition, the site deploys portable litter fences, other perimeter fencing, and berms at strategic locations. The entire perimeter of SCLF is enclosed by a 6-foot chain link fence topped with 3-strand barbed wire.

When the fill operation is conducted as designed, below the adjacent ground or fill level, the sidewalls and natural topography function as windbreaks. For instance, Unit IV is surrounded by the sideslopes of Unit I, II, and II on both longitudinal sides. Wastes that are readily windblown are covered immediately after disposal at the fill face to prevent them from becoming airborne. Additional preventive litter control techniques include confining the working face to the smallest practical area; consolidating waste with repeated passes of specialized compaction equipment; routine application of daily cover soil throughout the working day; and placement of temporary and permanent litter control fencing downwind of current fill locations.

The majority of wastes and recyclable materials are delivered in enclosed vehicles subject to NMED's litter control requirements; and litter is further minimized by enforcement of the facility's load-tarping requirement. To prevent litter from blowing from the vehicles, SCLF requires that vehicles be properly covered or tarped. Per County Ordinance (i.e., Amended Ordinance 06-07-06.10D, **Attachment II.2.B**) the residential fee for residential vehicles in violation of the tarping requirement is \$5.00, and the fee for commercial vehicles is \$20.00. Repeat offenders may be turned away, and/or reported to the authorities.

5.11.1 Wind Flow

As shown on the Wind Rose (Sandia Lakes, NM) provided as **Figure IV.2.3**, prevailing winds at SCLF primarily originate from the south and south/southwest; and winds are also common from the southwest, west, northwest, and north. Calms (i.e., winds less than 1.3 miles per hour; mph) are predominant for the area approximately 44% of the time. The impact of wind on an object (such as a fence) creates areas of positive and negative pressure. Positive pressure is created on the "windward" side of the fence; and negative pressure is created on the "leeward" side of the

fence. Wind pressure varies creating differential air flows and turbulence via its interaction with the surrounding environment. The Wind Rose has also been added to the **Permit Plans** to illustrate its orientation with respect to filling operations.

5.11.2 Intermediate Fencing

Portable litter fencing and berms are currently used in the immediate vicinity of the working face, and at other appropriate locations to control blowing litter. The County plans to continue use of intermediate fencing at SCLF to create incremental “stalls” at the site so that windblown litter is intercepted by fencing at several key positions prior to reaching perimeter fencing, and thus having less opportunity to leave the site. Placement of intermediate fencing will depend on the prevailing winds, site operations, and topography. The County will maintain installations of temporary intermediate fencing in a series of 2-3 fence lines to mitigate blowing litter. Intermediate fencing may be adjusted at any time, based on experience and weather conditions, in order to improve its effectiveness. Types of intermediate fencing can vary, and may include snow fencing, “orange mesh” fencing, chain-link or wire mesh, earthen berms, etc. The type of fencing used for any of the intermediate fences may be adjusted at any time based on performance, maintenance, availability, budget, etc.

5.11.3 Collection and Disposal

SCLF personnel conduct routine inspections of the property and within about one mile surrounding the Landfill, and litter collection is scheduled based on the inspection results, with the emphasis on off-site controls first. It is SCLF management staff’s responsibility to supervise Landfill personnel to ensure that litter has been contained by the end of the working day. In case of adverse weather conditions (e.g., high wind, cold temperatures), the priority for litter control is off-site collection first.

Litter and debris are collected and disposed of at the active fill face on a daily basis. There may, however, be times when such a practice is impractical. Such an instance may occur at the end of the working day when the active face is closed. In such an instance, the debris will be temporarily placed in containers or covered (e.g., heavy bags, tarps, soil) and disposed of at the fill face at the beginning of the next working day. Vehicles entering the site to deliver waste must be adequately secured, enclosed, covered, or tarped, or be delivering materials not susceptible to wind dispersion or suffer penalties. Every effort will be made to keep fencing clear of debris in order to maintain effectiveness.

5.12 Vector and Odor Control

A number of “vectors” or pests have the potential to transmit diseases that have historically been associated with a poorly operated open “dump”. Examples of these include insects, rodents, and birds. The modern landfilling process is specifically designed to preclude such vectors. The routine application of daily cover materials and constant movement of heavy equipment limit the potential for harborage or feeding areas. A professional pest control expert (exterminator) is on-call to provide for additional assistance, if necessary.

Landfill odors generally result from the trace-level gases produced during decomposition of the landfilled waste. Methane and carbon dioxide, which together comprise over 99% of landfill gas, are odorless. With the dry waste stream and semi-arid climate, the rate of organic decomposition and gas generation is very slow. Occasionally an incoming load of waste may exhibit a unique odor based on its content. The immediate application of daily cover is generally adequate to control these occasional odorous loads. Materials that have a known tendency to generate odors are restricted from SCLF.

Several other features incorporated into the SCLF design assist in the mitigation and control of odors. These include:

- Leachate collection that prevents liquid accumulation within the waste
- Routine methane monitoring along the perimeter of the facility
- Setbacks of the active area from structures in excess of 500 ft
- Extensive roadway rights of way on three (3) sides
- Landfill sequencing of the working face with consideration for wind direction and odor dispersion

5.13 Excavation of Closed Cells

It is not anticipated that closed cells will be excavated, except as necessary to comply with New Source Performance Standards (NSPS) requirements for active LFG control (requiring intrusion into the waste). If installation of an active LFG collection and control system is required, the area that received final cover and was certified as closed will not be excavated without Department approval. Some limited cap disruption may be necessary for erosion control or adjustment of drainage structures or roadways. Differential settlement of completed areas will be corrected with the addition of soil fill.

5.14 Daily Cover

A minimum thickness of six (6) inches of on-site soil is applied to each daily fill face. This soil is applied throughout the working day in order to minimize the area of exposed refuse. Daily cover is sloped to promote run-off and to prevent ponding. SCLF currently utilizes a tarping system as alternative daily cover (ADC) as described in Section 5.14.1. In addition, SCLF is seeking approval to use three additional ADCs, tire shreds (Section 5.14.2), spray-applied coating (Section 5.14.3), and wood chips (Section 5.14.4). Usage of ADCs will be in compliance with NMED's Guidance Document (**Attachment II.2.E**). ADC may be temporarily or permanently stored in any area with a slope of 5% or less suitable for its disposition. ADC will be utilized only on areas requiring 6 in. of daily cover and will not be used on areas requiring 12 inches of intermediate cover. NMED's ADC Guidelines are summarized on **Table II.2.13**; and the most recent NMED Solid Waste Bureau Guidance Document for ADC is provided as **Attachment II.2.E**.

TABLE II.2.13 - NMED ADC Guidelines

1. The long-term stockpiling of ADC materials should be avoided in order to prevent the appearance of materials not being properly disposed or causing a potential health and safety problem. The maximum acceptable storage time depends upon the type of ADC materials to be stored;
2. Areas designated for the short-term stockpiling of ADC shall be clearly identified in the landfill's operations plans. This will allow obvious discernment between ADC materials, recyclable storage area(s) and solid wastes;
3. ADC materials that will be mixed prior to application shall be mixed in a manner that minimizes dust generation and windblown litter. The Landfills' operating plans shall be revised to specify the proportions of each ADC component when utilizing mixed ADC materials; and
4. ADC materials that are special wastes or otherwise require analytical testing shall be sampled, analyzed and fully documented in each of the landfill's operating records prior to use as ADC. The landfills' operating plans shall identify which ADC materials require analysis and indicate the required parameters and test methods.

5.14.1 Tarping System

SCLF has had success using a mechanical tarping system (Tarpomatic MFG, previously approved), saving significant volumes of daily cover soil. At the end of the working day, tarp panels are placed over the exposed refuse using landfill equipment and personnel, and are anchored along the edges and across the center. The tarp is removed the following morning (or within 72 hours) in the same manner and stored away from the active face. The exposed waste is either covered with new waste or with approved cover materials.

Securing the Synthetic Tarp. The tarp is secured with soil, sandbags, tires, or other heavy items, which have no sharp edges. Depending on wind conditions and performance, tires, sandbags, or other similar items may be placed in a grid pattern over each panel and along the overlap between panels to prevent movement or uplifting. Walking over the material will be minimized to limit potential damage to the tarps. Once the tarp is secure, the area is inspected to make sure that refuse is completely covered. Soil is used for any areas requiring cover beyond the limits of the tarp.

Removal of the Synthetic Tarp. At the start of each operating day, the tarps are inspected for any damage that may have occurred during the night. Any damage or excessive wear is reported to the Landfill Manager, and appropriate repairs are made in accordance with the manufacturer's specifications and procedures. Tires, sandbags, and/or other items used to secure the material are removed and stored nearby for later use at the end of the day. If soil is used to secure the edges, it is carefully removed to prevent damage to the cover. When the synthetic tarp shows extreme wear or is damaged beyond repair, it will be disposed of at the landfill, and a new stock of material will be used. The panels made of synthetic woven fiber are designed to last at least six months with proper care and usage.

5.14.2 Shredded Tires

The County proposes to use shredded tires as ADC at SCLF. Per the requirements of Category I ADCs (**Attachment II.2.E**), the tire shreds used for ADC will be at least 2 inches in size, but no greater than 12 inches. Tires are currently accepted at the scrap tire shredding area, and may also be accepted at the Convenience Center in the near future. The tire shredding area is anticipated to be located adjacent to the active fill face such that tire shredding operations do not impact daily fill face operations, but are close enough that shredded tires are easily accessible for use as ADC.

Tires will be shredded on-site using a BCA Industries PD1000TIF series portable tire shredder (**Table II.2.3**). The PD1000TIF shreds tires into approximately 2-inch by 2-inch shreds at a rate of approximately 1-4 tons per hour (dependent upon material and screen size). Tire Shredding activities are anticipated to take place at a minimum weekly frequency. Tire shred stockpiles will also be maintained in proximity to the working face for temporary short-term storage, readily available for daily use. Prior to use as daily cover, tire shreds may be mixed with either stockpiled mulch or soil (approximately 1:1 ratio), applied over compacted MSW, and compacted again as it is applied. Mixing will be done close to the fill face in a manner that reduces dust emissions and dispersion.

5.14.3 Spray-Applied Covering

The County also proposes to use a spray-applied covering as ADC at SCLF, such as TOPCOAT®, Posi-Shell®, or BioCover™. These products are specifically formulated for use as landfill daily cover and have been proven effective at other NM facilities; therefore, the SWB considers these products to be “Category I ADCs”.

Description and Equipment

TOPCOAT®, Posi-Shell®, and BioCover™ are proprietary mixtures of compounds, reinforcing fibers, and coloring. The base mix for each product is available dry in bags and is mixed with water and applied using a trailer-mounted hydro-mulcher (e.g., a Bowie Hydro-Mulcher ADCM 800, or similar). The materials are non-toxic, biodegradable, and no analytical testing is required. Production information for each of the three products, along with a corresponding materials safety data sheets (MSDS) are provided in **Attachment II.2.G**. Bags of the base materials will be temporarily stored on pallets in a covered area and transported to the mixing area with a pickup truck. Storage and use of this material does not cause a public nuisance or create a potential hazard to public health, welfare, or the environment.

Application

Potable or non-potable water can be used as the water fraction of the spray-applied coating. The ratio of water to the base mix utilized is prescribed by the manufacturer and calibrated in the field. The material will be mixed in the tank of a hydro-mulcher or equivalent device. The spray-applied ADC will be used on the working face once waste receipts and compaction are complete. The spray-applied ADC may be used daily, or as otherwise appropriate based on field conditions. It

may not be practical in windy conditions, heavy precipitation events, etc. Application of the ADC will rely on a criss-cross pattern to ensure adequate coverage. The operator will observe the application area from all sides and re-cover areas where waste remains visible. It may be necessary to spray from two angles to correct a “spray-shadow” effect and assure a continuous unbroken coating. Once application is complete, the area receiving the ADC will be left undisturbed until landfill operations resume.

5.14.4 Wood Chips

The County proposes to use wood chips as ADC for SCLF. SCLF currently accepts green waste which is typically shredded for use in the composting process, however should there be an excess of green waste, and the County would like the option to use it for ADC. Green waste is stored in temporary piles within the former PNM easement area as shown on the Site Plan, **Figure II.2.2**. Shredded green waste will be processed to 80% less than or equal to 8-inches using the County’s existing equipment, the Doppstadt DW 3060 SA, and the Morbark 3600 Woodhog, as appropriate. Wood chips used as ADC will be spread over the fill face at a minimum of 6-inches in thickness, and may be mixed (1:1 ratio) with soil, as needed, prior to application.

5.15 Intermediate Cover

Currently, approximately 46 acres ± of SCLF has intermediate cover installed (i.e., Unit I – 30 acres ±, and a portion of Unit II – 16 acres ±). Intermediate cover for Unit I was continually applied throughout the active life of this portion of the site through April 2000, when fill operations transitioned to Unit II. Intermediate cover for Unit II has been continually applied since May 1, 2000, and the depth is subject to confirmation for final cover thickness upon closure. Areas of SCLF that have intermediate cover installed will be inspected routinely, at a minimum of once per month and also after significant (≥ 0.5 inches) rain events. Inspections will be recorded on a form similar to that provided as **Figure II.2.6** (Intermediate Cover Inspection Form). The form will be used to record cover observations, and photo-documentation will supplement the record as appropriate. The Intermediate Cover Inspection Forms will be maintained as part of the Facility Operating Record, and will elaborate on the following items, as applicable:

FIGURE II.2.6 - Intermediate Cover Inspection Form

Date: _____ Page ____ of ____

Inspector(s): _____ Weather: Temperature: _____ °F

Skies: _____
Precipitation: _____ inches (last 24 hours)

| Intermediate Cover | | | | | | | | | | |
|--------------------|----------|---------------|---------------|--------|---------|---------|------------|----------|---------|--------|
| Location | LFG Odor | Leachate Seep | Exposed Waste | Cracks | Ponding | Erosion | Vegetation | | Vectors | Sample |
| | | | | | | | Stress | Taproots | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

Field Notes: _____

Corrective Action Required: _____

Corrective Action Completed: _____ Signature _____ Date _____

Use additional sheets as necessary.

- Evidence of leachate
- Landfill gas odor
- Exposed waste
- Cracks greater than one inch in width and six inches in depth
- Surface water ponding
- Eroded or scoured soils
- Dead or stressed vegetation (if applicable)
- Vegetation growing taproots in areas not designated to accommodate them
- Vectors, such as flies and rodents
- Recordkeeping and reporting

Deficiencies identified during site inspections will be corrected within 90 days. Upon completion of the corrective action, appropriate documentation will be made on the Intermediate Cover Inspection Form and placed in the Facility Operating Record.

5.15.1 Intermediate Cover Maintenance Program

It is expected that routine site maintenance will be necessary to maintain the intermediate cover system. Intermediate cover is expected to require periodic maintenance such as soil enhancement/repair, and attention to naturally established vegetative cover:

- *Soil Repair* – Intermediate cover repairs may be necessary due to ponding, surface water erosion or wind erosion. Ponding can result from differential settlement of the landfill contents, and erosion can be caused by runoff in areas without established vegetation or by repeated wind gusts. Areas where impacts are evident will be promptly repaired to maintain the integrity of the cover. Recently filled and covered areas will require the most maintenance since differential settlement decreases rapidly with time, and erosion is minimized as vegetation is established. Soil for repairs will be obtained from on-site sources. Repairs will be made on an as-needed basis.
- *Vegetation* – Intermediate cover will not be seeded for vegetative growth; however, SCLF will routinely attempt to maintain any naturally-established vegetative cover. Routine care includes, but is not limited to, the removal of undesirable plant species (e.g., taproots) and maintenance of native plant species as appropriate. Processed organic material may be used to enhance and stabilize soil cover.
- For areas of intermediate cover which have been inactive for greater than two years and have not been adequately stabilized with vegetation, SCLF proposes the use of alternative methods for stabilization per 20.9.5.9.O(3) NMAC. Alternative materials and methods for cover stabilization are described in **Attachment II.2.L**.

5.16 Edge of Liner and Sideslope Maintenance

The County will perform minimum quarterly inspections of the edge of liner and sideslope conditions at SCLF. Inspections are required to (1) confirm the edge of liner; and (2) maintain sideslope compliance with 20.9.6.9.A(1)(e) NMAC. Over 7,000 linear feet of perimeter anchor trench have previously been installed (i.e., Units I-III), with only 450 ft ± of perimeter remaining for Unit IV. Inspections will be documented on the form included as **Attachment II.2.J** and a copy will be maintained the Facility Operation Record.

As described in the CQA Plan (Section 9.14 of **Volume II.4**), edge of liner markers will be installed at corners of newly installed liner and as necessary along the top of the side slope to prevent waste disposal beyond the edge of liner. The landfill disposal area will be typically be surveyed on an annual basis, or as determined necessary by the County in consultation with the Engineer of Record. Regular survey of the disposal area which will also aid in sideslope management and maintenance, and waste/soil management.

Training regarding performance of edge of liner and sideslope inspection will be provided to SCLF staff on a minimum annual basis and immediately following liner installation, prior to protective soil layer (PSL) installation. Training will be documented on the Training Record form, provided in **Attachment II.2.K**. Training Records will be maintained in the Facility Operating Record.

5.17 Waste Diversion

5.17.1 Recyclable Materials

Waste diversion and recycling are a very significant and increasing part of the daily operating practices at SCLF. Diversion of bulky items (appliances, scrap metals, and mattresses) may be conducted on the Convenience Center pad or at the fill face. Diverted materials are typically stored at the Convenience Center. Recycling is available at the Convenience Center; and recyclable materials accepted are listed in **Table II.2.7**.

5.17.2 Compostable and Other Divertible Materials

Source-separated green waste and woody C&D debris are diverted from the solid waste stream to be chipped to be used as feedstock for the SCLF composting operation, or for slope stabilization over closed areas. Depending on the size of green waste and woody C&D debris, these materials may be chipped prior to use as feedstock in Composting Operation. Unprocessed

green waste is stored on-site prior to chipping. As shown on **Figure II.2.2**, stockpiles of unprocessed green waste are generally located within the former PNM easement corridor adjacent to northwest of Unit II, and measure an average of 100 ft in length by 60 ft in width.

Chipping activities generally take place within the current active cell or within the former PNM corridor. Processed green wastes may also be stored within the active cell area in stockpiles (and may also be used for ADC), and mature compost is stored within the former PNM corridor in two stockpiles. Stockpiled green wastes are processed on a bi-weekly basis, or as weather allows. Similarly, stockpiles of chipped green waste (mulch) are utilized on a bi-weekly basis as feedstock for composting or by Sandoval County for landfill or other projects. Both mulch and finished compost are utilized for County projects; and are also available for public purchase. Processing activities and subsequent stockpiling will continue in the former PNM Easement until the area is developed incrementally for landfiling. This is an excellent location, with shielding from wind, noise, and visual impacts provided by adjacent fill deposits. When the former PNM Easement is no longer available, horizontal pads will be established over select fill areas.

Non-compostable C&D debris, asphalt, and concrete wastes delivered to SCLF are stored within Unit I in stockpiles which measure an average of 250-500 ft in length by 125-250 ft in width. These materials are typically processed using the shredder within Unit I. Processed materials generated by the shredder will be loaded directly into trailers or dump trucks and immediately used as road basecourse, erosion control, alternate daily cover, or temporarily stockpiled. Stockpiled materials are processed on a monthly basis, as time, resources, and weather allow. Processed materials may be utilized on a monthly basis on-site or for other Sandoval County Public Works projects.

The sizes of on-site stockpiles of unprocessed diverted materials will fluctuate depending on the rate at which they are delivered and the capacity of the on-site processing equipment. In addition, stockpiles of processed materials will fluctuate depending on usage and demand. SCLF will monitor diverted materials in order to control the volume and number of stockpiles to manageable proportions. On-site stockpiles will be maintained in such a manner that they do not create a public nuisance; potential safety hazards; or adversely impact the environment. The cumulative volume of stockpiled materials, including unprocessed material, processed material, and materials for sale is not anticipated to exceed approximately 30,000 yd³. When possible, processing and stockpiles will be shielded from public view by existing topography. Stockpiles will be separated by a minimum distance of 50 feet at all times. General stockpile locations are

shown on **Figure II.2.2**, but are subject to change based on waste receipts, operations sequencing, and beneficial use. Waste diversion areas are inspected daily for hazards, vectors, etc. No uncontrolled stockpiling or scavenging is allowed.

6.0 LANDFILL CLOSURE

As individual areas reach final grade, they will be capped with the design described on the **Permit Plans** and supporting calculations. The cap will be installed according to:

- The plans and details shown on the **Permit Plans**
- The procedures identified in the C/PC Plan (**Volume II.5**)
- The materials and installation specifications in the CQA Plan (**Volume II.4**)

Areas that have been incrementally closed are subject to routine inspections with follow-up maintenance as necessary to correct:

- Differential settlement
- Erosion
- Evidence of gas or waste exposure
- Cracks
- Condition of vegetation

The C/PC Plan (**Volume II.5**) describes closure and post-closure maintenance/monitoring in detail.

The existing exterior sideslopes for Units I and II are considered to have “intermediate cover” per 20.9.5.9.O NMAC. In addition, in most areas of these two Units the existing cover may meet the thickness (i.e., 36 inches) and sideslope (i.e., 25%) requirements for the currently approved cap design. Therefore, the existing grades for these exterior sideslopes are the most appropriate topographic tie-in for the Unit IV overfill cap.

The objective is to preserve and maintain any existing permanent sideslopes that show signs of stabilization. When these areas are subject to “final closure”, the Engineer will develop an “Incremental Closure Workplan” that attempts to preserve the stabilized areas by documenting their thickness, slope, and soils suitability as part of the final cap system. Areas that do not comply will be reworked, retested, and certified to meet the standards of the Final Cover CQA Plan (**Volume II.5**). This will be an incremental process, and the Workplans that will be reviewed by SWB will establish specific installation and testing protocols in direct response to conditions

encountered in the field.

There are incentives for the County to implement “final closure” on an incremental basis. There are ongoing research projects evaluating cover stabilization; and the County may, in the future, choose to refine the final grades to accommodate evolving final uses (e.g., solar panels, LFG collection, communication tower, sporting events, etc.). Any necessary refinements to the final cover after “final closure” would represent significant constraints to these sustainability goals due to the applicable regulatory limitations for a closed site (i.e., cap disruption). At this time, there are no expectations that the waste envelope will be extended in such a manner as to represent a future “vertical expansion” in Units I and II.

7.0 Recordkeeping and Annual Reports

The County will continue to maintain a Facility Operating Record during the active life of the Facility, and for each day that operations, monitoring, closure, or post-closure activities are conducted per 20.9.5.16 NMAC. The Facility Operating Record will be maintained on-site (for the current month and the previous twelve months, minimum) at the SCLF Scalehouse or Department of Public Works Office during the active mode of operations. After closure, the Facility Operating Record may continue to be maintained on-site, or may be maintained at Sandoval County Public Works Offices subsequently identified to NMED. The Facility Operating Record will continue to be made available for NMED review upon request. Records following closure (i.e., post-closure care and monitoring) may be retained electronically off-site at Sandoval County offices identified to and approved by NMED in advance.

7.1 Daily Operations

The waste receiving data required by 20.9.5.16.A(1)-(4) NMAC, including the type and weight/volume of each load received; country, state, municipality of origin; business name of commercial hauler; and type and weight/volume of non-solid waste materials, is recorded using a state-of-the-art computer software program. An example of the program output is provided as **Attachment II.2.F**. Vehicle load inspections are also part of the Facility Operating Record. Inspection records include the date/time of inspection, business name of the commercial hauler, driver name, vehicle description and license, source of waste, and other observations made during the inspection per 20.9.6.15.A(5)(a)-(e) NMAC.

Other components of the SCLF Facility Operating Record (per 20.9.6.15.A NMAC) may include as appropriate:

- Descriptions of solid waste or special waste handling problems or emergency disposal activities.
- A record of deviations from the approved design or operational plans.
- Environmental monitoring and testing results.
- Landfill Management Plans
- Documentation of the implementation of required plans.
- Copies of special waste manifests required under 20.9.8.19 NMAC.
- Copies of certificates of processing, transformation, or disposal of special wastes required under 20.9.8.13 NMAC.
- Financial assurance information, including a copy of the current mechanism, current estimates for closure, post-closure care, Phase I and Phase II assessments and a copy of the financial assurance mechanism being utilized.
- A complete and current copy of the NMED-approved Facility Permit, Final Order issuing the Permit, and any approvals or Permit Conditions granted by the Secretary under 20.9.2 - 20.9.10 NMAC.
- A Daily Log of operating and construction activities, site visitors, etc.
- Demonstrations made to the Secretary under Paragraphs (20.9.4.9.A.(12) and (13) NMAC regarding seismic impact areas and unstable areas (included in **Volume IV.1** of the Permit).

7.2 Post-Closure Care

During the post-closure care period for the SCLF, an operating record will be maintained for each day that monitoring, corrective action, or other post-closure activities are conducted (per 20.9.5.16.C NMAC), including:

- A record of deviations from the approved post-closure care plan (if any)
- Environmental monitoring and testing results.
- Documentation of the implementation of required plans; and any exceptions to those plans.
- Financial assurance information, including current estimates for closure, post-closure care, Phase I and Phase II assessments and a copy of the financial assurance mechanism being utilized.
- A complete and current copy of the Facility Permit, Final Order issuing the Permit, and any approvals or Permit Conditions granted by the Secretary under 20.9.2 - 20.9.10 NMAC.
- Any other applicable information specifically required by the Secretary.

Records following closure (i.e., post-closure care and monitoring) may be retained electronically off-site at Sandoval County Offices identified to and approved by NMED in advance.

7.3 Annual Reporting

The County will continue to submit an Annual Report for SCLF to NMED within 45 days from the end of each calendar year, or as otherwise prescribed by SWB, which describes the operations of the prior year. The Annual Reports will be certified as true and accurate by the County, and will include documentation of the following, per 20.9.5.16.D NMAC (on forms provided by the Department):

- The type and weight or volume of waste materials received each month and the country (if other than the U.S.), state, county, and municipality in which the waste originated.
- The type and weight or volume of solid waste received from each commercial hauler that delivered waste to the facility.
- A description of the capacity used in the previous year and the remaining capacity.
- A description of the acreage used for disposal, the acreage seeded, the acreage where vegetation is permanently established and a description of the progress in implementing the closure plan.
- The weight or volume of each type of special waste received at the Facility in the previous year.
- A summary of environmental monitoring results.
- Written notice to the Secretary if any change in operation has occurred that will reduce the active life of the Facility by 25% or more.
- Type and weight or volume of materials recycled during the year.
- Final disposition of materials not stored or recycled.
- Amount of leachate generated and treated or beneficially used.
- An annual Financial Assurance update/certification on forms supplied by NMED.
- The latitude and longitude of the geographical center of the Facility (as approved by the NMED) in NAD-83 or equivalent.
- Other applicable information requested by the Secretary.

A copy of the 2014 SCLF Annual Report is included as **Attachment II.2.H**. Copies of the SCLF Annual Reports will continue to be retained through the post-closure period as part of the Facility Operating Record. Records and plans required by 20.9.2 - 20.9.10 NMAC will be furnished upon request and made available at all reasonable times for inspection by the Secretary. Records following closure (i.e., post-closure care and monitoring) may be retained electronically off-site at Sandoval County Offices identified to and approved by NMED in advance.

**ATTACHMENT II.2.A
NMED APPROVAL OF CRUSHER/SHREDDER (01/13/09)**



BILL RICHARDSON
Governor
DIANE DENISH
Lieutenant Governor

NEW MEXICO
ENVIRONMENT DEPARTMENT

Solid Waste Bureau

Harold Runnels Building – Room 2050
1190 St Francis Dr.
PO Box 5469, Santa Fe, NM 87502-5469
Phone (505) 827-0197 Fax (505) 827-2902
www.nmenv.state.nm.us



RON CURRY
Secretary
JON GOLDSTEIN
Deputy Secretary

January 13, 2009

Mr. Phillip Rios
Sandoval County – Public Works Director
PO Box 40
Bernalillo, NM 87004

RE: Addition of portable shredder in operations plan at the Sandoval County Landfill.

Dear Mr. Rios:

The Bureau received your letter on January 5, 2009 requesting the addition of a portable shredder to reduce, recycle and reuse concrete, rebar, asphalt, roofing shingles, tree stumps and light metals. This equipment will need to be added to your operations plan and be placed in the operating record. The Bureau approves the addition of the mobile shredder (once purchased) to the operations plan at the Sandoval County Landfill. Be sure all personnel are safety trained on the shredder including proper lock-out/tag-out procedures and personal protective equipment. All shredded materials must be in compliance with Solid Waste Rules on storage and timely removal for recycled materials.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script, reading "Terry Nelson".

Terry Nelson
Permit Section Manager

emcc: Chuck Akeley, Manager, Enforcement, SWB
Marco Banales & Teri Monaghan, Enforcement Area I
Bert Sanchez, Manager, Sandoval County LF

**ATTACHMENT II.2.B
ORDINANCE AMENDMENT FOR FEES FOR THE SCLF
(ORDINANCE #06-07-06.10.D)**

Amended Ordinance
#06-07-06.10D

SANDOVAL COUNTY, NEW MEXICO
ORDINANCE AMENDMENT FOR FEES FOR
THE SOUTHERN SANDOVAL COUNTY REGIONAL LANDFILL

WHEREAS, the Sandoval County Landfill is relied upon by local governments and Pueblos for disposition of residential, construction and commercial waste; and

WHEREAS, the cost to operate the Landfill increases each year for Sandoval County; and

WHEREAS, Ordinance# 06-07-06-10-D requires an amendment to increase the current rates for landfill fees; and

WHEREAS, in order to operate an environmentally safe Landfill and to continue to extend Landfill services to Sandoval County, it is necessary to raise the rates for County and non-County users of the Landfill.

NOW BASED UPON THE FOREGOING, THE SANDOVAL COUNTY BOARD OF COUNTY COMMISSIONERS ORDAINS THAT THE FOLLOWING RATES ARE BEING AMENDED AS THE NEW RATES FOR THE SOUTHERN SANDOVAL COUNTY REGIONAL LANDFILL:

County Resident Rates

| | |
|------------------------------------|---------|
| Bags (maximum 4) | \$ 0.50 |
| P.U. Truck or Trailer 4' x 8' x 2' | \$ 4.75 |
| P.U. Truck or Trailer 4' x 8' x 2' | |
| Cab level | \$ 9.50 |
| Loads larger than 4' x 8' x 4' C/Y | \$ 4.75 |
| Loads Larger than 4' x 8' x 4' ton | \$24.00 |
| Trailers 4' x 8' x 4' C/Y | \$ 4.75 |
| Over 4' x 8' x 4' or larger/Ton | \$24.00 |

Non-County Resident Rates

| |
|---------|
| \$0.50 |
| \$ 5.25 |
| |
| \$10.50 |
| \$ 5.25 |
| \$25.00 |
| |
| \$ 5.25 |
| \$25.00 |

RESIDENTIAL RATES INCLUDE GOVERNMENTAL GROSS RECEIPTS TAX

Commercial Rates

| | |
|---------------------|---------|
| Loose per C/Y | \$ 4.50 |
| Loose Per Ton | \$24.00 |
| Compact per C/Y | \$ 5.00 |
| Compact per Ton | \$28.00 |
| Green Waste per C/Y | \$ 3.25 |

Non-County Commercial Rates

| |
|---------|
| \$5.50 |
| \$25.00 |
| \$6.00 |
| \$29.00 |
| |
| \$3.75 |

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SANDOVAL COUNTY, NEW MEXICO
Amended ORDINANCE NO. *06-07-06.101*
 ORDINANCE ESTABLISHING SOLID WASTE FEES FOR
 THE SOUTHERN SANDOVAL COUNTY REGIONAL LANDFILL
 Page 2 of 3

| | | |
|---------------------|---------|---------|
| Green Waste Per Ton | \$17.00 | \$18.00 |
|---------------------|---------|---------|

| | | |
|------------------------------------|---------|---------|
| Concrete 2' x 2' or larger per C/Y | \$12.75 | \$13.75 |
|------------------------------------|---------|---------|

Commercial Residential Rates

Non-County Commercial Rates

| | | |
|------------------------------------|--------------|-------------|
| Concrete 2' x 2' or larger per Ton | \$29.00 | \$30.00 |
| Stumps 2' x 2' or larger per C/Y | \$12.50 | \$13.50 |
| Stumps 2' x 2' or larger per Ton | \$37.00 | \$38.00 |
| Mattresses | \$ 5.00 each | \$6.00 each |
| Sludge per C/Y | \$10.50 | \$11.50 |
| Sludge per Ton | \$32.00 | \$37.00 |
| Contaminated Soil per C/Y | \$26.00 | \$27.00 |
| Contaminated Soil per Ton | \$34.00 | \$37.00 |

| | | |
|---------------------|---------|--|
| Commercial Tarp Fee | \$20.00 | |
|---------------------|---------|--|

| | | |
|----------------------|---------|--|
| Residential Tarp Fee | \$ 5.00 | |
|----------------------|---------|--|

Sludge will be accepted after Phase II Composting Project is complete

| | | |
|-------------------------------|--------------|---------|
| Residential Appliances | \$ 6.00 | \$7.00 |
| Commercial Appliances/Vending | \$15.00 each | \$17.00 |
| Televisions | \$12.00 | \$13.00 |

Appliances are not Accepted Unless Freon is removed from Unit

Materials for Resale

Non-County Resident Rates

| | | |
|-----------------------------|---------|---------|
| Mulch P.U. Truck Load | \$ 7.00 | \$8.00 |
| Mulch per C/Y | \$ 3.25 | \$4.25 |
| Mulch per Ton | \$ 7.50 | \$8.50 |
| Compost per P.U. Truck Load | \$12.00 | \$13.00 |
| Compost per C/Y | \$ 4.75 | \$5.75 |
| Compost per Ton | \$15.25 | \$16.25 |

All Material for Resale will also be charged Gross Receipts Tax

SANDOVAL COUNTY, NEW MEXICO
Amended ORDINANCE NO. 06-07-06.101
ORDINANCE ESTABLISHING SOLID WASTE FEES FOR
THE SOUTHERN SANDOVAL COUNTY REGIONAL LANDFILL
Page 3 of 3

DONE BY THE BOARD OF COUNTY COMMISSIONERS OF SANDOVAL
COUNTY, NEW MEXICO THIS 6th DAY OF NOV 2008.

BOARD OF COMMISSIONERS
OF SANDOVAL COUNTY

Joshua Madalena, Chairman

David Bency, Vice-Chairman

Orlando J. Lucero, Member

Don Leonard, Member

Jack Thomas, Member

ATTEST:

Sally Padilla
Sally Padilla, County Clerk

APPROVED AS TO FORM:

David Mathews
David Mathews, County Attorney

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**ATTACHMENT II.2.C
HOUSEHOLD HAZARDOUS WASTE COLLECTION**

Attachment II.2.C-Household Hazardous Waste Collection

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1.0 INTRODUCTION

Household hazardous waste (HHW) is one of the costliest types of residential waste to dispose of due to the risks it poses to human health and safety as well as the environment. This is further complicated by the attitude many individuals have towards hazardous waste once it has served its purpose. A comprehensive household hazardous waste program protects the community's natural resources, health, and safety.

The HHW collection program will be relocated to the Operations Center, allowing for a single point of service to county residents for both recyclables and HHW. HHW collection programs help safeguard police and fire units when entering homes, provide increased protection to the environment, especially the watershed, and aquifer as well as provide benefits for New Mexico NPDES permitting. Collection programs also minimize the incidents and costs of illegally dumped hazardous materials; as well as reduce the potential hazards to solid waste workers, collections personnel, and transfer station/landfill personnel.

2.0 PROJECT DESCRIPTION

The Sandoval County Landfill (SCLF) HHW Program will now allow drop-off of HHW for all Sandoval County and City of Rio Rancho residents at any time the Operations Center is open.

Location

Sandoval County Landfill
2708 Iris Rd. NE
Rio Rancho, NM 87144

Hours

Monday through Saturday, from 7 a.m. to 4 p.m.

Fees

\$15 per vehicle
\$20 per television or CRT computer monitor

Residents dropping off HHW at the Operations Center will follow the path outlined in **Figure II.2.C.1.**

3.0 PERSONNEL REQUIREMENTS

Landfill staff responsible for managing HHW must be 40-hour HAZWOPER certified (**Attachment II.2.C.1**). At least one 40-hour HAZWOPER certified staff member must be on-site any time the Sandoval County Operations Center is operating.

The following documents and records shall be kept at the SCLF: the job title of each employee conducting household hazardous waste management, the name of the employee, and a written job description for each position.

Training records for current personnel shall be kept until closure of the facility. Training records for former employees shall be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same organization.

Landfill staff 40-hour HAZWOPER certified:

Robert M. Sanchez, Solid Waste Manager
Sandoval County Landfill
Sandoval County
Certification #: 051618-07 Expires: 05/16/2019

Christopher Perea, Landfill Supervisor
Sandoval County Landfill
Sandoval County
Certification #: 041818-15 Expires: 04/18/19

4.0 HOUSEHOLD HAZARDOUS WASTE COLLECTION OPERATIONS

Household hazardous waste collections will be during regular operating hours, Monday through Saturday, 7 a.m. to 4 p.m. Waste categorization will be completed by a 40-hour HAZWOPER certified employee. All residents will be required to log in at the Scalehouse, where the attendant will record the vehicle type (**Attachment II.2.C.2**). Additionally, the attendant will verify residency of the customer.

4.1 Management of Collection and Containment

Advanced Chemical Transport (ACT) will provide HHW collection containers, specifications, and training for collection, segregation, and bulking of accepted household hazardous wastes. All wastes must be stored according to specifications and categorized by type and properties. Materials shall be segregated by flammable and combustibles, oxidizers, poisons, heavy metals and corrosives per New Mexico Environment Department (NMED) guidelines for segregating HHW.

The facility shall maintain an Overall Waste Log (**Attachment II.2.C.3a**) which documents each HHW container on-site, as well as the following information: waste type, hazard class, beginning

and ending accumulation dates, and location of each container. In addition, the Container Log Sheet (**Attachment II.2.3b**) shall be maintained for each container into which consolidated HHW is placed. The Log Sheet shall include: start date of accumulation, date material was accepted, type of material, and date the container became full.

4.1.1 Collection

1. Removal from vehicle
2. Classification of materials
3. Log classification and quantity
4. Place storage or bulk waste into correct container
5. Log bulk location and storage placement in waste log

4.1.2 Containment

Flammable and combustibles, oxidizers, poisons, heavy metals and corrosives (both liquids and solids) will be properly bulked and/or stored according to their properties and associated risk (see **Attachment II.2.C.4**, NMED Guidelines for Segregating Household Hazardous Wastes). All materials will be stored in conformance with the NMED guidelines.

4.1.3 Container and Secondary Containment Specifications

Containers holding household hazardous waste shall be in good condition (e.g., no severe rusting, apparent structural defects or leakage).

- A base shall underlay the containers and berms shall surround the storage areas that are free of cracks or gaps; and are sufficiently impervious to contain leaks, spills, and accumulated precipitation until the collected material is removed.
- The base shall be sloped or the containment system must be otherwise designed and operated to drain and remove liquid resulting from leaks, spills or precipitation, unless the containers are elevated or are otherwise protected from contact with accumulated liquids.
- Run-on into the containment system shall be prevented unless the collection system has sufficient excess capacity to contain run-on that might enter the system.
- Spilled or leaked waste and accumulated precipitation must be removed from the collection area in a timely manner as necessary to prevent overflow of the collection system.
- Materials shall be doubled-contained utilizing one of the following: double-contained storage lockers; double-contained waste oil tank; or spill pallets.

4.1.4 Additional Container Management

- Containers shall be made of, or lined with, materials that will not react with and are compatible with the household hazardous waste to be stored.
- The containment systems must have sufficient capacity to contain 10 percent of the volume of containers or the volume of the largest container, whichever is greater.
- Containers holding household hazardous waste shall be closed during storage, except when it is necessary to add or remove waste.

- Containers holding household hazardous waste shall be handled and stored in a manner that will not rupture the container or cause it to leak.
- Containers holding household hazardous waste shall be labeled clearly to identify the contents.

4.2 Incompatible Wastes

Wastes shall not be placed in an unwashed container that previously held an incompatible waste or material. A storage container holding a waste that is incompatible with any waste or other material stored nearby in other containers shall be separated from other materials or protected from them by means of a dike, berm, wall or other device. Reactive and incompatible wastes shall not be mixed.

Ignitable or reactive waste shall be separated and protected from sources of ignition or reaction including, but not limited to: open flames, smoking, cutting and welding, hot surfaces, frictional heat, sparks (static, electrical or mechanical), spontaneous ignition (e.g., from heat-producing chemical reactions), and radiant heat. Smoking and open flames are not allowed within the perimeter of the facility and “No Smoking” signs are to be placed on the facility entrance gate and the household hazardous waste collection area.

4.3 Accumulation Time & Amount

Accumulation time is not to exceed 180 days, and shall most frequently be limited to 90 days. Because the HHW collection area is considered to be “Conditionally Exempt”, there are no regulations regulating the accumulation amount. Materials will be picked up once the maximum containment has been reached (based on containment specifications).

4.4 Inspections

Inspections of collection areas, all drums, storage containers, and secondary containment areas shall be conducted weekly. Weekly material Inspection Logs (**Attachment II.2.C.5**) shall be completed by either the Landfill Manager or the Landfill Supervisor, and shall identify the types of problems that are to be addressed during the inspection. Areas subject to spills, such as loading and unloading areas, shall be inspected daily when in use. Corrective actions identified during inspections shall be implemented in a timely manner with guidance from the HHW contractor. If a hazard is imminent or has already occurred, remedial action shall be taken immediately.

These records shall be kept for at least three years from the date of inspection. At a minimum, these records shall include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions.

4.5 Household Waste Control Plan

The Sandoval County Landfill is surrounded by a 6-ft chain link fence topped with 3-strand barbed wire, including a locked gate that remains closed outside of operating hours. During normal operating hours, this gate is open and entry is controlled at the Scalehouse. During normal operating hours, the HHW area shall be manned by the assigned staff person(s).

SCLF employs a Waste Screening and Inspection Program, developed in accordance with 20.9.5.8.B(2) NMAC, to prevent the disposal of regulated hazardous waste, prohibited and unauthorized wastes, poly-chlorinated biphenyls (PCBs), ash, asbestos, and material deemed incompatible with the Landfill's operations (e.g., odorous waste). Employees managing the HHW area must be trained under the Waste Screening and Inspection Program developed by the County. This training is to take place annually for landfill employees.

The first screening will take place upon initial contact with the residents. As the HHW program at SCLF is strictly for residential use, the first screening will be to determine if the load is residential or commercial waste. Should a load come through that is determined to be commercial waste, by placard, vehicle type or quantity and type of waste, the driver will be notified of the restriction and provided contact information for commercial disposal of hazardous wastes. Materials accepted at the Operations Center are generally received from known waste sources delivered by residential haulers. The signs posted at the entrance of the facility lists prohibited wastes not accepted at SCLF.

The second point of on-site confirmation for household hazardous waste categorization shall take place during the unloading process. During unloading, qualified staff will further examine the material for labels to categorize the waste, isolate leaking or unstable containers, estimate quantities (on average less than 30 gallons), and identify acceptable/unacceptable wastes. Information distributed to the public regarding material acceptance shall be as follows and posted:

TABLE II.2.C.1: Public Information: Acceptable and Unacceptable Materials

| Unacceptable Materials | Acceptable Materials |
|---|--|
| Ammunition / Guns | Flammable liquids (xylene, toluene, paints, solvents, fuels, contaminated motor oils) |
| Compressed cylinders (propane, camping style containers, fire extinguishers) | Flammable liquids - toxic (pesticides, resins, carburetor cleaners) |
| Fireworks / Flares / Flare Guns Explosives | Flammable gas (aerosol spray cans) |
| Radioactive Materials | Televisions, CRT computer screens |
| Asbestos | Compressed cylinders, fire extinguishers |
| Biomedical / Infectious Wastes / Sharps | Corrosive liquids (potassium hydroxide, acids and bases, muriatic acid and pool chemicals), other corrosives |
| Dried paint | Batteries, lithium batteries, Ni-Cad batteries |
| Non-hazardous waste | Oxidizing liquids and solids (nitrates, chlorates) |
| Prescriptions / Medications | Mercury |
| Commercially generated waste | Fertilizers |
| Drums of any size / containers over 5 gallons | Toxic Solids |
| Empty containers | Fluorescent bulbs |

In addition, the facility will scrutinize loads on a random basis to detect and prevent the receipt and subsequent processing of unauthorized materials (e.g., “hot” loads, liquid waste, non-household hazardous wastes, and wastes deemed incompatible with the facility’s operation). Random load inspections must be conducted at a minimum of one load per day, or one percent of all incoming loads (whichever is greater). During these inspections, a carload/truckload of incoming waste is selected at random and unloaded at a designated area. Data related to the material source, vehicle information and date/time will be recorded on a form similar to the one provided as **Attachment II.2.C.6**.

Should suspect loads be found, the resident that delivered the waste will be subject to more stringent inspections. If repeated attempts to dispose of unauthorized waste continue, they may be barred from utilizing the SCLF HHW program. Additional random inspections may be conducted and/or the frequency of inspection increased in the event that traffic or recyclable volume increases, or for special conditions or circumstances.

Operations Center HHW inspection personnel shall be trained to identify suspicious wastes based on visual and olfactory characteristics. Some of the indications they are trained to look for include:

- Hazardous placarding or markings
- Liquids

- Powders or dust
- Sludge
- Bright or unusual colors (i.e., red plastic bags, bio-hazard bags)
- Drums or commercial size containers

Whenever a suspicious waste is found, the Landfill Manager or the Landfill Supervisor shall be contacted and follow this Plan of Operation.

4.6 Removal and Transport

The contractor name, dates of collection, as well as the volume, waste type, hazard class, and destination of the waste, shall be listed on all shipping documents. Manifests shall be clearly marked "Household Hazardous Waste." Copies of manifests shall be kept on file with the Operating Record at the facility for a period of three years; as well as copies provided directly to the Landfill Manager.

HHW Contractors (determined per RFP FY14):

Advanced Chemical Transport (ACT)
6137 Edith Blvd NE Albuquerque, NM 87107
(505) 349-5220

Potential Vendors FY19:

Advanced Environmental Solutions
Stericycle

5.0 EMERGENCY RESPONSE PROCEDURES, EVACUATION PLAN, AND CONTACTS

SCLF shall minimize the possibility of a fire, explosion or any unplanned sudden or non-sudden release of waste or hazardous constituents to air, soil or surface water that could threaten human health or the environment. This plan shall ensure the protection of public health, welfare and the environment.

The SCLF is equipped with an internal communication system capable of providing immediate emergency instruction (voice and signal) to facility personnel. Telephones are also available on site, capable of summoning emergency assistance from local police and fire departments.

Portable fire extinguishers, spill control materials, and decontamination equipment shall be available on site; and inspected, tested, and maintained as required by regulation to assure proper operation in time of emergency. Staff shall be trained quarterly in the emergency response and evacuation procedures, as well as general safety procedures. Training records and sign in sheets shall be kept for a period of three years (**Attachment II.2.C.7**).

5.1 Access to Communications and Alarm System

Whenever household hazardous waste is being managed, personnel involved in the operation shall have immediate access to an emergency communication device through visual or voice contact with another employee. Directions shall be posted in the HHW collection area to call 911 and the HHW emergency response contractor in the event of an emergency that involves hazardous materials. **Attachment II.2.C.8** details additional Hazardous Waste Emergency & Accident Procedures.

If there is ever just one employee on the premises while the facility is operating, that employee shall have immediate access to a telephone and a hand-held two-way radio capable of summoning external emergency assistance.

5.2 Required Aisle Space

The required aisle space of four feet shall be maintained to allow the unobstructed movement of personnel, fire protection equipment, and decontamination equipment to the HHW collection area in an emergency.

5.3 Primary & Alternate Coordinators

Primary: Robert Sanchez, Landfill Manager
Sandoval County Landfill
2708 Iris Rd. NE, Rio Rancho, NM 87144 Office: (505) 867-0814
Cell: (505) 991-5461

Secondary: Christopher Perea, Landfill Supervisor
Sandoval County Landfill
2708 Iris Rd. NE, Rio Rancho, NM 87144 Office: (505) 867-0814
Cell: (505) 269-6120

5.4 Emergency Equipment on Site

Eye Wash Station

- Used in case of eye irritations or chemical contact with eyes.

Universal HAZMAT Drum Spill Kit

- Used to cleanup minor chemical spills or leaks.
- Spill kits will be provided on the premises. More than one kit shall be kept on-site to ensure proper safety standards. Each additional kit shall be stored in a locked, dry unit.

Fire Extinguishers

- Class A: ordinary combustible materials such as paper, wood, cardboard and most plastics.
- Class B: flammable or combustible liquids such as gasoline, kerosene, grease and oil.
- Class C: electrical
- Class D: combustible metals, such as magnesium, titanium, potassium and sodium
- Class K: fires that involve cooking oils, trans-fats, or fats in cooking appliances.

Personal Protective Equipment (PPE)

- Chemical-resistant nitrile and biopolymer gloves (4)
- Chemical-resistant apron (2)
- Safety glasses (required) and face shield (as required) (4)
- Steel-toed boots (required for staff)

5.5 Location of Emergency Equipment

Emergency equipment shall be located at the Convenience Center Guard Shack, and shall be accessible to all employees and kept within reasonable distance of the entrance/exit of the HHW collection area. Duplicates of emergency equipment are required, and excess equipment shall be stored on site within the Convenience Center Guard Shack. Equipment shall be tested/inspected regularly, and replaced by expiration dates (if no expiration date is listed, equipment must be replaced when noticeable “aging” is present). Testing, inspection, and replacement will be conducted by either the Landfill Manager or the Landfill Supervisor. Equipment maintenance logs will be kept within the facility for a period of three years.

5.6 Emergency Duties

SCLF shall maintain and implement an evacuation plan (**Volume II.3 Contingency Plan**) when there is an immediate threat or harm to the health of staff, volunteers, residents, and/or the environment.

The emergency coordinator shall assess the potential hazards to public health, welfare, and the environment by utilizing both the emergency on-call hazardous waste contractor and HAZWOPER 40-hour training.

The emergency coordinator shall provide for appropriate, treatment, storage and disposal of recovered waste after an emergency situation through the consultation and services of the on-call hazardous waste contractor.

5.6.1 Unknown Source Spill

The site supervisor shall execute an evacuation plan if an “unknown” source spill occurs that puts either staff, volunteers, residents, or the facility at stake. Staff on site will assist with evacuation of volunteers and residents who may not be familiar with the facility’s evacuation procedures.

TABLE II.2.C.2 - Evacuation Procedures

When evacuation is required, the following procedures will be followed:

1. Facility personnel will be alerted using facility telephones or cellular phones with touch-to-talk capabilities.
2. Vehicles delivering waste will be diverted away from the emergency location and routed towards the Landfill exit if necessary.
3. Landfill operating equipment will be shut down if appropriate.
4. Personnel will be directed to proceed to the Scalehouse, which is the Primary Meeting Point and designated emergency response coordination location. Any missing persons will be identified.
5. If the emergency involves the Scalehouse or its immediate environs, the main Landfill entrance will be the Secondary Meeting Point for facility personnel.
6. If the emergency precludes access to both the Scalehouse and the main Landfill entrance, personnel will evacuate the site via the access gate near the southwest corner of the Landfill.
7. Once assembled, personnel will stand by to afford assistance if needed, or evacuate through the appropriate egress point(s).

5.7 Emergency Notification List

Rio Rancho Police Department
500 Quantum Rd. NE, Rio Rancho, NM 87124
Chief: Michael Geier
Emergency: 911
Non-emergency: (505) 891-7226

Sandoval County Sheriff's Department
1500 Idalia Rd., Bernalillo, NM 87004
Sheriff: Douglas C. Wood
Emergency: 911
Non-emergency: (505) 891-7226

Rio Rancho Fire Department
500 Quantum Rd. NE, Rio Rancho, NM 87124
Chief/Director: Michael Meek Fire Marshall: Jonathon Garcia
Emergency: 911
Non-emergency: (505) 891-7226

New Mexico Environment Department Solid Waste Bureau
Harold Runnels Building Room N2150
1190 St. Francis Drive - P.O. Box 5469 Santa Fe, NM 87502-5469
Phone: (505) 827-0197

Local Hospitals:

UNM Sandoval Regional Medical Center, Inc
3001 Broadmoor Blvd. NE, Rio Rancho, NM 87144
Emergency: 911
Non-emergency: (505) 994-7000 www.unmsrmc.org/

Presbyterian Rust Medical Center
2400 Unser Blvd. SE, Rio Rancho, NM 87124
Emergency: 911
Non-emergency: (505) 253-7878 www.phs.org

Presbyterian Urgent Care
4100 High Resort Blvd. #124, Rio Rancho, NM 87124
Emergency: 911
Non-emergency: (505) 462-8888 www.phs.org

Lovelace Westside Hospital
10501 Golf Course Rd. NW, Albuquerque, NM 87114
Emergency: 911
Non-emergency: (505) 727-2000 www.lovelace.com

Contractor(s):

Advance Chemical Transport (ACT) 6137 Edith Blvd NE,
Albuquerque, NM 87107
Phone: (505) 349-5220

Envirosolve
5338 Williams St SE
Albuquerque, NM 87105-0849
Phone: (505) 873-0964

Mesa Oil
6395 E. 80th Ave.
Commerce City, CO 80022
Phone: (303) 426-4777
Fax: (303) 657-0669

6.0 FACILITY CLOSURE & FINANCIAL ASSURANCE

At the time of facility closure, all household hazardous wastes will be removed by the existing household hazardous waste contractor. A final removal inspection will be conducted by the SCLF Manager. Sandoval County will be responsible for all HHW collected in the preceding period. All supplies and materials used for HHW collection will be removed by Sandoval County.

Financial assurance cost estimate: \$7,616.03

- Final HHW & material removal cost estimate: \$7,616.03

Attachment II.2.C.9: Final Closure Quote Estimate from ACT.

**ATTACHMENT II.2.C.1
HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE CERTIFICATION**

This certifies successful
completion of the approved 8 hour training course

Robert Sanchez

Hazardous Waste Operations and Emergency Response Refresher

For the purposes of training required under
OSHA 29 CFR 1910.120

Conducted by

Acme Environmental, Inc.

3816 Carlisle NE

Albuquerque, NM 87107

(505) 433-4461

Course date:

05/16/2018

Expiration date:

05/16/2019

Course director:

RS

Certificate number:

051618-07

Solid Waste Facility Operator



Robert M. Sanchez

Operator ID # 1292

has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a Landfill Operator

Presented by

State of New Mexico Environment Department

Connie Pasteris

Connie Pasteris, Certification Officer, Environmental Protection Division

March 28, 2019

Expiration Date

Solid Waste Facility Operator



Robert M. Sanchez

Operator ID # 1292

has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a Recycling Facility Operator

Presented by

State of New Mexico Environment Department

Connie Pasteris

Connie Pasteris, Certification Officer, Environmental Protection Division

May 13, 2019

Expiration Date

Solid Waste Facility Operator



Robert M Sanchez

Operator ID # 1292

has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a Compost Facility Operator

Presented by

State of New Mexico Environment Department

William Schueler

William Schueler, Certification Officer, Environmental Protection

February 7, 2020

Expiration Date



SWANA CERTIFIED PROFESSIONAL

This is to certify that

Robert M. Sanchez

has met the Solid Waste Association of North America's eligibility requirements
and passed a comprehensive examination.

Therefore SWANA hereby designates Robert M. Sanchez as a:

Certified Manager

of

Integrated Solid Waste Management Systems

As of 08/15/2012 until 08/15/2021

Certification No. 91400

David Bideman
Executive Director/CEO

This certifies successful
completion of the approved 8 hour training Course.

Christopher Perea

Hazardous Waste Operations and Emergency Response Refresher

For the purposes of training required under

OSHA 29 CFR 1910.120

Conducted by

Acme Environmental, Inc.

3816 Cattle NE

Albuquerque, NM 87107

(505) 433-4461

Course date:

04/18/2018

Expiration date:

04/18/2019

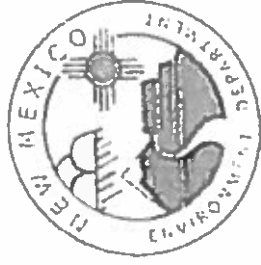
Course director:



Certificate number:

041818-15

Solid Waste Facility Operator



Christopher A. Perea

Operator ID # 2701

has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a Landfill Operator

Presented by

State of New Mexico Environment Department

Connie Pasteris

Connie Pasteris, Certification Officer, Environmental Protection Division

April 3, 2019

Expiration Date

Solid Waste Facility Operator



Christopher A. Perea

Operator ID # 2701

Has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a Recycling Facility Operator

Presented by

State of New Mexico Environment Department

Connie Pasteris, Certification Officer, Environmental Protection Division

January 8, 2019

Expiration Date

Solid Waste Facility Operator



Christopher A. Perea

Operator ID # 2701

has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a Compost Facility Operator

Presented by

State of New Mexico Environment Department

William Schueler

William Schueler, Certification Officer, Environmental Protection

November 10, 2020

Expiration Date

Solid Waste Facility Operator



Mark Hatzenbuehler

Operator ID # 4715

has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a **Landfill Operator**

Presented by

State of New Mexico Environment Department

William Schuele

William Schuele, Certification Officer, Resource Protection Division

January 14, 2022

Expiration Date

**ATTACHMENT II.2.C.2
RECYCLING VEHICLE COUNT**

HAZARDOUS WASTE COLLECTION PROGRAM
SANDOVAL COUNTY LANDFILL

ATTACHMENT II.2.C.2 - Recycling Vehicle Count

| Recycling Vechicle Count 2019 | | | | | |
|-------------------------------|------|----------------|---------|-------------------|----------------|
| Date | Auto | Auto W/Trailer | Pick-up | Pick-up W/Trailer | Total Vehicles |
| 1/5/2019 | | | | | |
| 1/12/2019 | | | | | |
| 1/19/2019 | | | | | |
| 1/26/2019 | | | | | |
| 2/2/2019 | | | | | |
| 2/9/2019 | | | | | |
| 2/16/2019 | | | | | |
| 2/23/2019 | | | | | |
| 3/2/2019 | | | | | |
| 3/9/2019 | | | | | |
| 3/16/2019 | | | | | |
| 3/23/2019 | | | | | |
| 3/30/2019 | | | | | |
| Quarter 1 Totals | | | | | |
| 4/6/2019 | | | | | |
| 4/13/2019 | | | | | |
| 4/20/2019 | | | | | |
| 4/27/2019 | | | | | |
| 5/4/2019 | | | | | |
| 5/11/2019 | | | | | |
| 5/18/2019 | | | | | |
| 5/25/2019 | | | | | |
| 6/1/2019 | | | | | |
| 6/8/2019 | | | | | |
| 6/15/2019 | | | | | |
| 6/22/2019 | | | | | |
| 6/29/2019 | | | | | |
| Quarter 2 Totals | | | | | |

HAZARDOUS WASTE COLLECTION PROGRAM
SANDOVAL COUNTY LANDFILL

ATTACHMENT II.2.C.2 - Recycling Vehicle Count

| Recycling Vechicle Count 2019 | | | | | |
|-------------------------------|------|----------------|---------|-------------------|----------------|
| Date | Auto | Auto W/Trailer | Pick-up | Pick-up W/Trailer | Total Vehicles |
| 7/6/2019 | | | | | |
| 7/13/2019 | | | | | |
| 7/20/2019 | | | | | |
| 7/27/2019 | | | | | |
| 8/3/2019 | | | | | |
| 8/10/2019 | | | | | |
| 8/17/2019 | | | | | |
| 8/24/2019 | | | | | |
| 8/31/2019 | | | | | |
| 9/7/2019 | | | | | |
| 9/14/2019 | | | | | |
| 9/21/2019 | | | | | |
| 9/28/2019 | | | | | |
| Quarter 3 Totals | | | | | |
| 10/5/2019 | | | | | |
| 10/12/2019 | | | | | |
| 10/19/2019 | | | | | |
| 10/26/2019 | | | | | |
| 11/2/2019 | | | | | |
| 11/9/2019 | | | | | |
| 11/16/2019 | | | | | |
| 11/23/2019 | | | | | |
| 11/30/2019 | | | | | |
| 12/7/2019 | | | | | |
| 12/14/2019 | | | | | |
| 12/21/2019 | | | | | |
| 12/28/2019 | | | | | |
| Quarter 4 totals | | | | | |
| 2019 Totals | | | | | |

ATTACHMENT II.2.C.3
3a. OVERALL WASTE LOG
3b. CONTAINER LOG SHEET

**ATTACHMENT II.2.C.4
NMED GUIDELINES FOR SEGREGATING HOUSEHOLD HAZARDOUS WASTE**

NEW MEXICO ENVIRONMENT DEPARTMENT-SOLID WASTE BUREAU

GUIDELINES FOR ESTABLISHING A PERMANENT HOUSEHOLD HAZARDOUS WASTE (HHW) PROGRAM @ PERMITTED FACILITIES

Last updated 11/30/09

These guidelines are for solid waste facilities that may collect, store and/or dispose of household hazardous waste (HHW). Household hazardous waste is exempted from the RCRA Hazardous Waste rules per 40 CFR 261.4(b)(1).

GENERAL GUIDELINES:

1. Receive written approval for the program as a revision to the currently permitted facility from the NMED Solid Waste Bureau prior to implementation.
2. Any contractor, subcontractor, or other organization working on behalf of the sponsor to conduct the collection program will be bound to any and all conditions of the approved collection program plan.
3. All wastes must be properly packaged to prevent reactions, spills, or leaks, and must be properly labeled.
4. The transportation of household hazardous waste from a collection or storage site must be accompanied by shipping papers. The identity of the program sponsor and date(s) of collection, as well as the volume, waste type, hazard class, and destination of the waste must be listed on the shipping document. Shipping papers or manifests which contain waste solely of household origin must be clearly marked "Household Hazardous Waste." Copies of these forms must be kept on file with the operating record at the facility for review by the SWB.
5. All wastes must be reused; treated and/or disposed of at a facility which is authorized to accept hazardous waste and properly permitted or authorized to accept hazardous waste under RCRA; or recycled at an approved recycling facility.

GENERAL HHW FACILITY STANDARDS

1. A description of the operation of the facility, including but not limited to:
 - (a) days and hours of operation;
 - (b) identification of the owner/operator;
 - (c) persons who will be allowed to use the facility, fees to be charged, and whether the facility will be run on an appointment or open basis. **Note:** Only HHW or conditionally exempt small quantity generators (CESQG) should be allowed to use the facility.

2. Site Plans. Site plans must include:

(a) general site layout, including traffic flow on and adjacent to the property and current land use along property borders;

(b) identification of waste handling and storage areas, locating the specific waste types which would be managed in each area; and

(c) location of all emergency and spill cleanup equipment (such as fire extinguishers, absorbent, extra drums, eye wash, emergency shower, etc.)

3. Waste Control Plan. The waste control plan must identify measures that will be taken to identify ineligible generators and unacceptable waste types, and actions that will be taken if these materials are brought to the facility.

PACKAGING & STORAGE REQUIREMENTS

1. Use and Management of Containers.

(a) Condition of containers. If a container holding household hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects) or if it begins to leak, the owner or operator must transfer the waste from this container to an undamaged container or manage the waste in some other way that complies with the requirements of this Subpart;

(b) Compatibility of waste with containers. The owner or operator must use a container made of or lined with materials which will not react with, and are otherwise compatible with, the household hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired. All waste must be protected from the elements with containment and/or cover of some kind.

(c) Management of containers.

(i) A container holding household hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.

ii) A container holding household hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.

(iii) A container holding household hazardous waste must be marked with words identifying its contents.

(d) Inspections. At least weekly, the owner or operator must inspect areas where containers are stored, looking for leaking containers and for deterioration of containers or the containment system caused by corrosion or other factors.

(e) Containment.

(i) Container storage areas, other than those described in clause ('b') of this subparagraph, must have a containment system that is designed and operated as follows:

(a) A base must underlay the containers which is free of cracks or gaps and is sufficiently impervious to contain leaks, spills, and accumulated precipitation until the collected material is detected and removed;

(b) The base must be sloped or the containment system must be otherwise designed and operated to drain and remove liquid resulting from leaks, spills, or precipitation, unless the containers are elevated or are otherwise protected from contact with accumulated liquids.

(c) The containment systems must have sufficient capacity to contain 10 percent of the volume of containers or the volume of the largest container, whichever is greater. Containers that do not contain free liquids need not be considered in this determination.

(d) Run-on into the containment system must be prevented unless the collection system has sufficient excess capacity, in addition to that required in subclause ('3') of this paragraph, to contain any run-on which might enter the system.

(e) Spilled or leaked waste and accumulated precipitation must be removed from the sump or collection area in a timely manner as is necessary to prevent overflow of the collection system.

(ii) Storage areas that store containers holding only wastes that do not contain free liquids need not have a containment system defined by clause ('a') of this subparagraph provided that:

(a) the storage area is sloped or is otherwise designed and operated to drain and remove liquid resulting from precipitation; or

(b) the containers are elevated or are otherwise protected from contact with accumulated liquid.

(f) Special requirements for ignitable or reactive waste. Containers holding ignitable or reactive waste must be located at least 15 meters (50 feet) from the facility's property line.

(g) Special requirements for incompatible wastes.

(i) Incompatible wastes, or incompatible wastes and materials must not be placed in the same container. **Note:** See attached **Appendix I** recommended segregation list.

(ii) Waste must not be placed in an unwashed container that previously held an incompatible waste or material.

(iii) A storage container holding a waste that is incompatible with any waste or other material stored nearby in other containers must be separated from other materials or protected from them by means of a dike, berm, wall, or other device.

2. Storage of household hazardous waste in tanks must be managed in accordance with all applicable laws and regulations (including permits as needed), and at no time may incompatible or reactive wastes be placed in the tank.

3. Waste may be stored for a period not to exceed 180 days unless otherwise approved by the Department, provided that the storage capacity of the facility is not exceeded.

4. The owner or operator must take precautions to prevent accidental ignition or reaction of ignitable or reactive waste. This waste must be separated and protected from sources of ignition or reaction including, but not limited to: open flames, smoking, cutting and welding, hot surfaces, frictional heat, sparks (static, electrical, or mechanical), spontaneous ignition (e.g., from heat-producing chemical reactions), and radiant heat. While ignitable or reactive waste is being handled, the owner or operator must confine smoking and open flame to specifically designated locations. "No smoking" signs must be conspicuously placed wherever there is a hazard from ignitable or reactive waste.

5. At no time may reactive or incompatible wastes be mixed.

SECURITY PLAN

1. The facility must have:

(a) an artificial or natural barrier (e.g., a fence in good repair or a fence combined with a cliff), which completely surrounds the active portion of the facility; and a means to control entry, at all times, through the gates or other entrances to the active portion of the facility (e.g., an attendant, television monitors, locked entrance, or controlled roadway access to the facility).

INSPECTIONS

1. The owner or operator must conduct inspections often enough to identify problems in time to prevent harm to human health or the environment, and must inspect the facility for malfunctions and deterioration, operator errors, and discharges which may be causing or may lead to a release of hazardous constituents.

2. Inspection schedule.

(a) The owner or operator must develop and follow a written schedule for inspecting all monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment (such as dikes and sump pumps) that are important to preventing, detecting, and responding to environmental or human health hazards.

(b) This schedule must be kept at the facility, available for inspection by authorized Department personnel.

(c) The schedule must identify the types of problems (e.g., malfunctions or deterioration) which are to be looked for during the inspection (e.g., inoperative sump pump, leaking fitting, eroding dike, etc.)

(d) The frequency of inspection may vary for the items on the schedule. However, it should be based on the rate of possible deterioration of the equipment and the probability of an environmental or human health incident if the deterioration or malfunction of any operator error goes undetected between inspections. Areas subject to spills, such as loading and unloading areas, must be inspected daily when in use.

3. The owner or operator must remedy any deterioration or malfunction of equipment or structures which the inspection reveals on a schedule which ensures that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, remedial action must be taken immediately.

4. The owner or operator must record inspections in an inspection log or summary. These records must be kept for at least three years from the date of inspection. At a minimum, these records must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions.

RECORD KEEPING & REPORTING

1. Each facility must maintain the following records:
 - (a) For each container into which consolidated household hazardous waste is placed, a log sheet must be used which contains the following information:
 - (i) beginning date of accumulation;
 - (ii) date material was entered and type of material; and
 - (iii) the date container became full.
 - (b) The facility must maintain an overall waste log, which lists each container stored on site, and includes waste type, hazard class, beginning and ending accumulation dates and location of each.
 - (c) The facility must maintain inspection logs, as required by paragraph (d)(4) of this section.
2. Copies of the logs required in paragraph (1) of this subdivision must be retained by the permittee for a period of three years after waste shipment.
3. Copies of shipping papers or manifests must be retained by the permittee for a period of three years after shipment.
4. Annually, by February 15 for the preceding calendar year, a year end report provided by NMED-SWB must be submitted to NMED-SWB which contains:
 - (a) total volume (tons) of household hazardous waste collected and volume and disposition of any collected materials not included in the reporting requirements of paragraph (3) of this subdivision (e.g., usable or reusable products)

PREPAREDNESS & PREVENTION

1. Design and operation of facility. Facilities must be designed, constructed, maintained, and operated to minimize the possibility of a fire, explosion or any unplanned sudden or non-sudden release of waste or hazardous constituents to air, soil, or surface water which could threaten human health or the environment.
2. Required equipment. All facilities must be equipped with the following:
 - (a) an internal communication or alarm system capable of providing immediate emergency instruction (voice or signal) to facility personnel;

(b) a device, such as a telephone (immediately available at the scene of operations) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams;

(c) portable fire extinguishers, spill control materials, and decontamination equipment; and

3. Testing and maintenance of equipment. All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, must be tested and maintained as necessary to assure its proper operation in time of emergency.

4. Access to communications or alarm system.

(a) Whenever household hazardous waste is being collected, poured, mixed or otherwise handled, all personnel involved in the operation must have immediate access to an internal alarm or emergency communication device either directly or through visual or voice contact with another employee.

(b) If there is ever just one employee on the premises while the facility is operating, that employee must have immediate access to a device, such as a telephone (immediately available at the scene of operation) or a hand-held two-way radio, capable of summoning external emergency assistance.

5. Required aisle space. The owner or operator must maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, and decontamination equipment to any area of facility operation in an emergency.

CONTINGENCY PLAN.

1. Update the facility Contingency Plan to include HHW potential releases

PERSONNEL TRAINING

1. All HHW facility personnel must successfully complete a program of training (preferably as listed under OSHA 29CFR 1910.120 and 1910.200) and on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with these requirements. The owner or operator must ensure that this program includes all of the elements described in the training description required under subparagraph (3) of this subdivision.

2. This program must be directed by a person trained in hazardous material management procedures, and must include instruction which teaches facility personnel hazardous material

management procedures (including contingency plan implementation) relevant to the positions in which they are employed.

3. At a minimum, the training program must be designed to ensure that facility personnel are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, where applicable:

(‘a’) procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;

(‘b’) communication or alarm systems;

(‘c’) response to fires or explosions;

(‘d’) response to spills

(‘e’) use of PPE (personal protective equipment)

(‘f’) waste segregation training

4. Facility personnel must successfully complete the program required in paragraph (1) of this subdivision within six months after the date of their employment or assignment to the facility, whichever is later. Employees must not work in unsupervised positions until they have completed the training requirements of paragraph (1) and (3) of this subdivision.

5. Facility personnel must take part in an annual refresher of the initial training required in paragraph (1) of this subdivision.

6. The owner or operator must maintain the following documents and records at the facility:

(a) the job title for each position at the facility related to household hazardous waste management, and the name of the employee filling each job;

(b) a written job description for each position listed under subparagraph (a) of this paragraph. This description may be consistent in its degree of specificity with descriptions for other similar positions in the same company location or bargaining unit, but must include the requisite skill, education or other qualifications, and duties of employees assigned to each position;

(c) a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position listed under subparagraph (a) of this paragraph; and

(d) records that document that the training or job experience required under paragraphs (1), (2) and (3) of this subdivision has been given to, and completed by, facility personnel.

7. Training records on current personnel must be kept until closure of the facility. Training records on former employees must be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same organization.

8. An outline of the training program to be used at the facility and a brief description of how the training program is designed to meet actual job tasks should be submitted with the plan.

FINANCIAL ASSURANCE.

1. The owner or operator of the household hazardous waste facility must update the CPC Plan and submit the plan along with an updated Financial Assurance plan for approval by the Department.

2. The closure plan must be amended whenever changes in the operation of the facility affect the closure plan.

APPENDIX I

GUIDELINES FOR SEGREGATING HHW MATERIALS

FLAMMABLES AND COMBUSTIBLES

| | |
|----------------------------------|------------------------------------|
| Acetone | Liquid wastes |
| Adhesives | Liquid sandpaper |
| Air freshener | Methanol |
| Alcohols | Naphtha |
| Asphalt driveway topping | Neats foot oil |
| Automotive body filler | Oils |
| Automotive oils | Organic solvents |
| Barbecue lighter fluid | Paint strippers |
| Benzene | Paint thinners |
| Brake fluid | Paraffin oil |
| Creosote | Perfume |
| Cutting oil | Petroleum distillates |
| Dap | Plastic model cement |
| Diesel fuel | Plastic roof cement |
| Denatured alcohol | Polyurethane cement (unsolidified) |
| Duplicator fluid | Power steering fluid |
| Enamel/oil-based paint | Primers |
| Epoxy paint | Roofing cement |
| Ethanol | Rug/upholstery cleaners |
| Ether | Sealers |
| Fiberglass resins (unsolidified) | Shellac thinner |
| Fingernail polish remover | Spot remover/cleaning fluids |
| Floor/furniture polish | Thinner |
| Formaldehyde solution | Tile cement |
| Formalin | Tire black |
| Gasoline | Toluene |
| Glues | Transmission fluid |
| Grease | Turpentine |
| Isopropyl Alcohol | Varnish |
| Kerosene | Wallpaper cement |
| Lacquer paint | WD-40 |
| Latex paint (unsolidified) | White gas |
| Latex/water-based paint | Wood/tile putty |
| Lighter fluid | Wood stain |
| Linseed oil | Xylol/xylene |

OXIDIZERS

| | |
|----------------------|---------------------------------|
| Ammonium nitrate | Hydrogen peroxide |
| Bleach | Iodine |
| Calcium hypochlorite | Nitric acid |
| Chlorates | Peroxides |
| Fertilizers | Potassium permanganate |
| Fluorine | Sodium hypochlorite |
| Hair Coloring | Toilet bowl cleaner with bleach |
| Hair dye | |

POISONS

Ant and roach killer
Anti-freeze
Bacterial pipe cleaner
Baygon
Black flag
Chlordane
Chrome-silver polishes
DDT
Diazinon
Dimethylamine salts
Disinfectants
Dog repellent
Dursban
Ethylene glycol
Flea spray/powder
Fungicides
Gopher killer
Insect sprays
Lindane
Malathion

Methylene chloride
Mole killer
Moth crystals
"OFF" insect spray
Pentachlorophenol
Pharmaceuticals
Plant food
Pruning paint
Pyrethrins
Raid
Rock salt
Rose dust
Round-up
Sevin (dust)
Snail/slug killer
Strychnine
Tree root/stump killer
Weed and grass killer
Windshield wiper fluid

HEAVY METALS

Arsenic
Bordeaux Mix
Chromium
Copper sulfate

Lead arsenate
Lead compounds
Mercury

CORROSIVES (ACIDS)

Boric acid
Car battery acid
Copper cleaners/metal cleaners
Disinfectants
Ferric chloride
Hydrochloric acid

Muriatic acid
Phosphoric acid
Pool acid
Sheep dip
Sodium bisulfate
Toilet bowl cleaners

CORROSIVES (BASES)

Ammonia and ammonia based cleaners
Battery terminal cleaner
Caustic soda
Cess pool cleaners
Drain cleaners
Lye
Oven cleaners

**ATTACHMENT II.2.C.5
INSPECTION LOG**

**HAZARDOUS WASTE COLLECTION PROGRAM
SANDOVAL COUNTY LANDFILL**

ATTACHMENT II.2.C.5 - Inspection Log

| Location | Item | Container Type | Date | Material Name | Hazard Class | Start Date | Full Date | Amount | Condition of Container | Inspector's Initials |
|-----------------------|------|----------------|------|---------------|--------------|------------|-----------|--------|---|----------------------|
| Storage 1: | 1 | Drum | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 2 | Drum | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 3 | Drum | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 4 | Drum | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 5 | Drum | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 6 | Drum | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 7 | Drum | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 8 | Drum | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 9 | Drum | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 10 | Box | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 11 | Box | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 12 | | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 13 | | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | | | | | | | | | | |
| Pallets: | 1 | | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 2 | | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 3 | | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 4 | | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 5 | | | | | | | | | |
| Oil Container: | 1 | | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| Other: | 1 | | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 2 | | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |
| | 3 | | | | | | | | Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> | |

**ATTACHMENT II.2.C.6
LOAD SCREENING FORM**

ATTACHMENT II.2.C.6

SANDOVAL COUNTY LANDFILL STATE MANDATED

DATE: _____ WASTE INSPECTION TIME: _____

“WARNING”

THIS IS NOT AN OPTION

NEW MEXICO SOLID WASTE REGULATION 20.9.5.8 REQUIRED RANDOM INSPECTIONS OF
WASTE BE PERFORMED

SANDOVAL COUNTY LANDFILL **DOES NOT** accept loads containing materials suspected, recognized or defined as **MEDICAL, HAZARDOUS, TOXIC, LIQUID, PETROLEUM BASE, INDUSTRIAL, OR ANY OTHER WASTE OR PRODUCT RECOGNIZED BY THE EPA; STATE, OR LOCAL REGULATIONS AS RESTRICTED WASTE FOR THIS FACILITY!**

THE undersigned affirms that no such waste as described above is being disposed of at this facility, and if during inspection any described materials is located, discovered OR suspected either by concealment or by placement in error in vehicle inadvertently, the undersigned as a representative of the named company assumes all responsibility of legal and or professional fees for the proper removal and disposal of such waste along with any cost incurred by SANDOVAL COUNTY LANDFILL.

| NAME OF COMPANY | VEHICLE MAKE | COLOR | ID# | LICENSE PLATE |
|-----------------|--------------|-------|-----|---------------|
| | | | | |

GENERAL INFORMATION

| DATE | TIME | | WASTE ORIGIN: LOCATION OF BIN |
|----------------|------|-----|-------------------------------|
| ODOR PRESENT | YES | NO | |
| | | | |
| LOAD CONDITION | WET | DRY | |
| | | | |

| C/D WASTE | | CLEAN FILL | | OTHER WASTE | | MIS. |
|--------------|--|------------|--|-------------|--|------|
| CARPET | | CONCRETE | | METAL | | |
| DRY WALL | | DIRT | | FURNITURE | | |
| ROOFING | | GRAVEL | | RESIDENTIAL | | |
| FLOORING | | SITE | | WH. GOODS | | |
| PIPE METAL | | CLEARING | | YARD | | |
| PIPE PLASTIC | | | | STUMPS | | |
| LUMBER | | | | WIRE | | |

| | | |
|----------------------------|-----|----|
| UNAUTHORIZED WASTE LOCATED | YES | NO |
| ACTION REQUIRED | YES | NO |

| UNAUTHORIZED WASTE DESCRIPTION |
|--------------------------------|
| |
| |
| |
| |
| |
| |

DRIVERS SIGN _____ DRIVER PRINT _____

INSPECTOR SIGN _____ INSPECTOR PRINT _____

**ATTACHMENT II.2.C.7
TRAINING PROGRAM**

**HAZARDOUS WASTE COLLECTION PROGRAM
SANDOVAL COUNTY LANDFILL**

ATTACHMENT II.2.C.7 – Training Program

The Sandoval County Landfill Manager shall conduct regular, annual training for staff working on-site to ensure the safety of personnel and the surrounding community. The training program is designed to meet requirements for the New Mexico Environment Department (NMED) Solid Waste Bureau (SWB); as well as define job tasks and review requirements under the 40-Hour OSHA HAZWOPER standards.

- Landfill Staff responsible for managing HHW must be 40-hour HAZWOPER certified.
- At least one 40-hour HAZWOPER certified staff member must be present any time the Sandoval County Operations Center is operating.
- Staff will be trained on the identification of unauthorized waste (i.e., waste that is not authorized to be collected at the HHW facility).

Annual Training to be conducted shall contain at a minimum:

- Emergency and evacuation procedures
- Review of site emergency signals and contact information
- Required PPE and operations when collecting, sorting, and bulking HHW
- Collection procedures, record keeping, and reporting reviews
- Review of any accident or incidents

**ATTACHMENT II.2.C.8
HAZARDOUS WASTE EMERGENCY & ACCIDENT PROCEDURES**

**Attachment II.2.C.8 – Hazardous Waste Emergency
and Accident Procedures**

1. If an incident occurs where hazardous materials may be involved, sound the alarm for the facility. For the Sandoval County Landfill the responders are:
 - Rio Rancho Police Department
Emergency: 911
Non-emergency: (505) 891-7226
 - Rio Rancho Fire Department:
Emergency: 911
Non-emergency: (505) 891-7226
 - On-call hazardous materials management contractor:
Advance Chemical Transport
(505) 349-5220
2. If you hear the evacuation alarm/horn leave the area immediately according to the established evacuation routes and then contact the Landfill Manager for further information.
3. Stay away from the incident site and try to keep others from going into the area to minimize the risk of contamination.
4. Try to stay upstream, uphill, and upwind as hazardous materials can quickly be transported by water and wind. Initially, try to go at least 100-200 yards from the danger area; you may need to go much further.
5. If you are in a car, close windows and shut off ventilation. This will reduce the risk of contamination.
6. If requested to stay in your office or at any other site, please follow all instructions carefully.
7. Avoid contact with any spilled liquid materials, airborne mist or condensed solid chemical deposits. Keep your body fully covered and wear gloves, socks, and shoes. These measures may offer some protection.
8. Do not eat or drink any food or water that may have been contaminated.
9. If you have been contaminated, or suspect you may have been, minimize contact with the hazardous material as much as possible by use of any means available such as eye-wash, safety showers, and removal of contaminated clothing. Notify the first emergency responder you see.
10. Do not return to the site and work area until officials say it is safe.
11. A person or item that has been exposed to a hazardous chemical may be contaminated and could contaminate other people or items. If you have come into contact with or have been exposed to hazardous chemicals, you should: follow decontamination instructions from the emergency responders and/or seek medical assistance.

**ATTACHMENT II.2.C.9
FINANCIAL ASSURANCE COST ESTIMATE**



1/9/2019

| | |
|----------------------|-------------------------------------|
| To: | Sandoval County Public Works |
| Fax Number: | |
| Organization: | Sandoval County Public Works |
| Title/Dept | |
| Email: | - |

| | |
|--------------------|--|
| From: | Zane Gentzler |
| Phone: | 505 273 1255 |
| Return Fax: | 505 349 5236 |
| Email: | zgentzler@actenviro.com |

Regarding: [Closure Costs](#)

Thank you for the opportunity to quote on your project.

Attached is our best estimate for performance of the Statement of Work (SOW), on a time and materials basis. We believe the total is adequate to complete the task as described and we commit to contact you for approval prior to exceeding the total billing. However, work of this type is occasionally subject to change orders because of the uncertainty of volumes and prices involved. Consequently, you are requested to provide and an authorized representative, accessible to the job to negotiate and authorize change orders, should they be required to complete the work. There will be a \$100 cancelation fee on all new orders.

Please see any comments that may be noted on page 2 of the the quote.

ACT's credit terms are net 30 days on approved credit. Upon acceptance of our quote, you will be provided a credit application to complete and return to our credit person listed on the application, it will be processed in three work days or less.

If all is in order, you can accept this quotation by signing at the bottom of this page and providing a PO number or credit card information and returning to my attention. Please call if I can clarify anything at all. Thank you.

Sincerely,
Zane Gentzler
ADVANCED CHEMICAL TRANSPORT

Print Name

PO # or Credit Card #

Signature

Exp. Date

3 digit code

Quotation

proposal # 1

Prepared For: Sandoval County Public Works

Scope Of Work

In the event of a closure, ACT will pickup all wastes on hand so the site is free of hazardous and non hazardous waste streams generated from HHW collection. Volumes listed are just estimates of what might be on hand.

Assumptions

An annual price escalation of 2% will apply to cover cost of living increases anticipated.

Price

| Category | Item | Comments | Cost | Units | Amount | Extended |
|---------------------|----------------------------|--|-----------|-------|--------|-------------|
| DISPOSAL | 55 GALLON | FLAMMABLE LIQUIDS | \$ 310.00 | EACH | 4 | \$ 1,240.00 |
| DISPOSAL | CYB | LATEX PAINTS LOOSEPACKED | \$ 750.00 | EACH | 2 | \$ 1,500.00 |
| DISPOSAL | 55 GALLON | TOXIC FLAMMABLE LIQUIDS LOOSEPACKED | \$ 400.00 | EACH | 2 | \$ 800.00 |
| DISPOSAL | CYB | AEROSOL CANS LOOSEPACKED | \$ 520.00 | EACH | 1 | \$ 520.00 |
| DISPOSAL | 55 GALLON | CORROSIVE ACIDS | \$ 447.00 | EACH | 1 | \$ 447.00 |
| DISPOSAL | 55 GALLON | CORROSIVE BASES | \$ 425.00 | EACH | 1 | \$ 425.00 |
| DISPOSAL | 55 GALLON | TOXIC SOLIDS | \$ 400.00 | EACH | 1 | \$ 400.00 |
| DISPOSAL | 5 GALLON | REACTIVES | \$ 300.00 | EACH | 1 | \$ 300.00 |
| DISPOSAL | 5 GALLON | MERCURY ITEMS | \$ 450.00 | EACH | 1 | \$ 450.00 |
| SUPPLIES | 55 GALLON DRUM | METAL OT | \$ 60.00 | EACH | 2 | \$ 120.00 |
| SUPPLIES | 55 GALLON DRUM | POLY OT | \$ 99.20 | EACH | 2 | \$ 198.40 |
| SUPPLIES | 5 GALLON DRUM | POLY OT | \$ 20.00 | EACH | 2 | \$ 40.00 |
| SUPPLIES | CYB | CONTAINER | \$ 100.00 | EACH | 2 | \$ 200.00 |
| SUPPLIES | VERMICULITE | | \$ 45.00 | BAG | 1 | \$ 45.00 |
| TRANSPORTATION | GEAR TRUCK/ BOX TRUCK | LOCAL | \$ 125.00 | DAY | 1 | \$ 125.00 |
| SUPPLIES | EPA MANIFEST FEE | | \$ 15.00 | EA | 1 | \$ 15.00 |
| LABOR | HAZARDOUS WASTE TECHNICIAN | | \$ 55.00 | HOUR | 6 | \$ 330.00 |
| ENERGY RECOVERY FEE | | OF INVOICE TOTAL | 8% | EACH | 0 | \$ - |

| | |
|--------------|--------------------|
| Subtotal | \$ 7,155.40 |
| Tax 6.4375% | \$ 460.63 |
| Total | \$ 7,616.03 |

ENERGY RECOVERY FEE* DESCRIPTION PRICE

Diesel Fuel Price < \$3.50 8 % Additional Fee on Invoice Costs
Diesel Fuel Price \$3.501 - \$3.75 10 % Additional Fee on Invoice Costs

Sincerely,

Zane Gentzler

Zane Gentzler

Account Manager

Diesel Fuel Price \$3.751 - \$4.00 12 % Additional Fee on Invoice Costs
Diesel Fuel Price \$4.001 - \$4.25 13 % Additional Fee on Invoice Costs
Diesel Fuel Price \$4.251 - \$4.50 14 % Additional Fee on Invoice Costs
Diesel Fuel Price \$4.501 - \$4.75 15 % Additional Fee on Invoice Costs
Diesel Fuel Price \$4.751 - \$5.00 16 % Additional Fee on Invoice Costs
* West Coast Retail Diesel Price, as Reported by U.S. Energy Information Admin. at
https://www.eia.gov/dnav/pet/pet_pri_gnd_dcus_r50_w.htm.

Advanced Chemical Transport

1210 Elko Drive, Sunnyvale, CA 94089

www.advancedchemical.net

1.0

GENERAL PROVISIONS

1.1

ACT is a corporation engaged in the business of environmental management, including, but not limited to, the packaging, transportation and disposal of hazardous waste; general and specific environmental, health and safety compliance; chemical relocations; facility decontaminations; and on-site staffing of environmental professionals.

1.2

Upon acceptance of the agreement, the parties agree to be bound by the terms of the Service Agreement. The parties understand that the terms of the agreement and the terms of the Service Agreement make up the entire contract of the parties.

1.3

ACT carries all permits and authorizations required to perform work for CUSTOMER.

1.4

The term of the agreement shall be for two (2) calendar years from the date of Acceptance.

1.4.1

Either party may terminate this agreement with or without cause by giving 90 days written notification to the other party.

1.4.2

CUSTOMER understands and agrees that early termination of the Contract will cause financial hardship to ACT, and CUSTOMER agrees to pay a cancellation fee, which shall be the sum of previous three (3) month's invoice totals associated with any work performed by ACT for CUSTOMER.

2.0

LAWFUL COMPLIANCE IN PERFORMANCE OF WORK

2.1

ACT and CUSTOMER agree to comply with all applicable federal, state and local laws and ordinances and lawful orders, rules and regulations of any constituted authority that may pertain to the generation, collection, transportation, handling, storage or disposal of any of CUSTOMER'S waste. ACT and CUSTOMER have obtained all necessary permits, licenses and other forms of documentation required to perform their respective obligations hereunder and, upon request of the other party, each shall furnish copies thereof to such other party. CUSTOMER shall obtain generator EPA identification numbers and promptly notify ACT of such EPA identification numbers and any changes thereto. As it pertains to the transporting of the waste material, ACT, is acting as a common carrier and in no other capacity. ACT will not accept improperly identified and/or unidentified material for packaging, transportation and/or disposal.

2.2

CUSTOMER warrants that it is under no temporary or permanent injunction, administrative or court order or writ, which would prohibit or constrain the transportation, treatment, storage and/or disposal of such wastes by ACT in any manner whatsoever.

3.0

OWNERSHIP AND TITLE OF WASTE

3.1

CUSTOMER warrants that it holds clear title to all the wastes to be packaged, transported, treated, stored and or disposed of as part of the work.

3.2

CUSTOMER assumes responsibility, without limitation, as "Generator" (as defined in the applicable statutes and/or regulations) for compliance Nothing contained within this Contract shall be construed or interpreted as requiring ACT to assume the status of "Generator" as that term appears in RCRA, CERCLA, or any federal, state or local statute or ordinance or any treaty governing the generation, treatment, storage,

4.0

INSURANCE

4.1

ACT maintains insurance at or above the required levels required by governing agencies for work performed for CUSTOMER.

4.2

Certificates of insurance will be provided upon request.

5.0

WASTE DISPOSAL

5.1

CUSTOMER shall approve of the disposal facility to which the waste shall be taken. CUSTOMER acknowledges and agrees that CUSTOMER alone has reviewed and approved of the place of disposal, as indicated by CUSTOMER'S signature on relevant shipping documents.

6.0

NON-CONFORMING WASTE

6.1

CUSTOMER understands that waste pricing is highly dependent on the constituents, and percentage of constituents, of the waste. CUSTOMER warrants that all wastes which may be serviced pursuant to this agreement shall materially conform to the WASTE DESCRIPTIONS in the

6.2

If CUSTOMER ships waste outside of the parameters set forth in the waste's profile, CUSTOMER understands additional charges may result, and agrees to pay the additional charges related to the packaging, transportation and disposal of the non-conforming waste.

7.0 PRICING AND COMPENSATION

7.1 CUSTOMER agrees to compensate ACT pursuant to the parameters set forth in this agreement. ACT will invoice CUSTOMER as each stage of the project is completed. All invoices are due net thirty (30) days from date of issuance. ACT reserves the right to charge a 1½% finance charge per Pricing may be modified to (a) include pricing for new services and/or (b) adjust current pricing for existing services. If the pricing is modified, ACT shall provide CUSTOMER a Revised Pricing Schedule, which shall become effective upon date of receipt, indicated by signature of

8.0 INDEMNIFICATION

8.1 ACT agrees, to the fullest extent permitted by law, to indemnify and hold harmless CUSTOMER from and against any liabilities, damages, and/or costs (including reasonable attorney's fees and cost of defense) arising out of the death or bodily injury to any person, or the destruction or damage to any property, to the extent caused, during performance of services under this Contract, by the negligent acts, errors and/or omissions of ACT or its officers, directors, principals, or employees, subject to the limitations set forth in the Section 9.0 (Limitation of Liability) of this Contract.

8.2 CUSTOMER agrees, to the fullest extent permitted by law, to indemnify and hold harmless ACT, its officers, directors, principals and employees, from and against any liabilities, damages, and/or costs (including reasonable attorney's fees and cost of defense) arising out of the death or bodily injury to any person, or the destruction or damage to any property, to the extent caused, during performance of services under this Contract, by the negligent acts, errors or omissions of the CUSTOMER or CUSTOMER'S contractors, consultants or anyone for whom CUSTOMER is legally responsible.

9.0 LIMITATION OF LIABILITY

9.1 To the fullest extent permitted by law, the total liability of ACT and its officers, directors, principals, employees, and any of them, to CUSTOMER, and anyone claiming by or through CUSTOMER, for any and all claims, losses, costs or damages, including attorneys' fees and costs and expert-witness fees and costs of any nature whatsoever, or claims or expenses, resulting from or in any way related to work performed for CUSTOMER, shall not exceed the total compensation received by ACT under this agreement, or the total amount of \$10,000 (Ten Thousand Dollars), whichever is less, except for ACT's willful misconduct. It is intended that this limitation apply to any and all liability or cause of action, including ACT's negligent acts, errors and/or omissions, however alleged or arising, unless otherwise prohibited by law, and unless otherwise provided in this section.

9.2 CUSTOMER acknowledges and understands the inherent difficulty in packaging and moving materials in chemical relocation projects. Examples may include, but are not limited to, chemicals, media, live stock cultures, refrigerated material, research compounds and/or pharmaceutical related material. If any damage occurs to the materials during the packaging, shipment, unpacking and placement of the materials, CUSTOMER agrees to submit claims only for the replacement value of the materials, and in no circumstance shall such claim(s) exceed \$5,000 per project. CUSTOMER understands and agrees that \$5,000 is the maximum allowed claim for the replacement and damage of materials under this Contract, and that all other damage and/or replacement claims are hereby waived by CUSTOMER.

9.3 All materials with a value in excess of \$1,000 shall be identified to the ACT project manager. Any items damaged by ACT during relocation will have a maximum combined liability not to exceed \$1,000 unless identified to the ACT project manager in advance of start of work.

10.0 INDEPENDENT CONTRACTORS

10.1 CUSTOMER understands and acknowledges, and ACT hereby agrees that this agreement shall not render the agents of ACT as employees of CUSTOMER for any purpose. The agent of ACT is and will remain an agent of ACT in his or her relationship to CUSTOMER. Consequently, CUSTOMER shall not be responsible for withholding taxes with respect to the agent's compensation. The agent shall have no claim against CUSTOMER hereunder or otherwise for vacation pay, sick leave, retirement benefits, social security, worker's compensation, health or disability benefits, unemployment insurance benefits, or employee benefits of any kind.

11.0 RESTRICTIVE COVENANT CONVERSION/RITE TO HIRE

11.1 If CUSTOMER wishes to hire or otherwise engage an ACT employee as an employee, consultant, independent contractor, or in any other way utilize a person employed by ACT, or hire, contract or in any other way utilize a person employed by ACT within the previous 3 years of the date of said hiring, contracting or utilization, CUSTOMER agrees to pay ACT a personnel acquisition fee equal to one year (2060 Hours) of the individual's highest customer hourly billing rate.

12.0 SUBCONTRACTORS

12.1 CUSTOMER understands and agrees that ACT may assign and subcontract certain portions of the work performed for CUSTOMER. However, ACT warrants that all work performed for CUSTOMER by ACT subcontractors shall carry all protections, restrictions and limitations as if ACT performed the work.

13.0 ATTORNEY'S FEES

13.1 In any litigation, arbitration, or other proceeding by which one party either seeks to enforce its rights under this agreement (whether in contract, tort, or both) or seeks a declaration of any rights or obligations under this Contract, the prevailing party shall be awarded its reasonable attorney fees, and costs and expenses incurred.

14.0 NOTICE

- 14.1
- Any notices required or permitted to be given under this agreement shall be given in writing and shall be delivered (a) in person, (b) by a commercial overnight courier that guarantees next day delivery and provides a receipt or (c) by or prepaid certified mail, return receipt requested to both: Advanced Chemical Transport 1210 Elko Dr. Sunnyvale, CA 94089, Attn: Walter Singer, President, and Advanced Chemical Transport Inc.
- 15.0
- CONFIDENTIALITY
- 15.1
- All information and material that may be disclosed by one party to the other in the course of performance of this Contract is considered confidential and proprietary and will not be used by the receiving party other than for the purposes under this agreement for which it was disclosed. The receiving party will protect such information from disclosure to third parties and hold it as confidential using the same degree of care as that party uses to protect its own confidential or proprietary material of like importance, but at least reasonable care. This obligation will continue for a period of two (2) years following receipt of the material and will survive any termination of this Contract, but it will not cover any information which is disclosed to a third party by the disclosing party without restrictions on disclosure, any information that has been or is developed independently by the receiving party without violation of obligations of confidentiality, any information that falls into the public domain without fault of the receiving party, any information that is rightly obtained by the receiving party from a third party without restriction, or any information that is rightly in the possession of the receiving party at the time of disclosure by the disclosing party.
- 16.0
- FORCE MAJEURE
- 16.1
- Neither party shall be liable in damages or have the right to terminate this agreement for any delay or default in performing hereunder if such delay or default is caused by conditions beyond its control including Acts of God, government restrictions (including the denial or cancellation of any export or other necessary license), wars, insurrections and/or any other cause beyond the reasonable control of the party whose performance is affected.
- 17.0
- SEVERABILITY
- 17.1
- If any provision or provisions of this agreement shall be held to be invalid, illegal, and unenforceable or in conflict with the law of any jurisdiction, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.
- 18.0
- ENTIRE CONTRACT
- 18.1
- This agreement, including the Scope of Work, Revised Pricing Schedule, Waste Profile Sheet(s) and any other schedule or exhibit referred to in this agreement, constitutes the final, complete, and exclusive statement of the terms of the agreement between the parties pertaining to the subject matter of this agreement and supersede all prior and contemporaneous understandings or agreements, whether oral or written, of the parties. This agreement may not be contradicted by evidence of any prior or contemporaneous statements or agreements.
- 18.2
- No party has been induced to enter into this agreement by, nor is any party relying on, any representation, understanding, agreement, commitment or warranty outside those expressly set forth in this agreement.
- 18.3
- No modification shall be binding on ACT unless in writing and signed by both parties. In no event shall the conflicting terms or conditions found on any CUSTOMER purchase or work order be considered an amendment or modification to this agreement.
- 19.0
- GOVERNING LAW
- 19.1
- The laws of the State of California shall govern the validity and interpretation of this agreement, without regard for conflicts of law principles of this, or any other, jurisdiction.
- 20.0
- MISC FEES

| | DESCRIPTION | PRICE | |
|--|---|--|-------------------|
| ADDITIONAL FEES | Cancellation Fee <24 hours notice or < 1 business day | Minimum Charge of \$ 250.00 or Cost of labor/ equipment/ materials for 1st day of work, whichever is greater | |
| Rush Pickups or Projects <24 hours' notice or <1 business day notice | | Minimum Fee of \$ 250.00 plus additional charges for service | |
| Over pack Surcharge | | \$100.00 plus cost of over pack | |
| Return Drum Fee | | \$200.00 per occurrence | |
| Manifest Correction Fee | | \$ 75.00 per occurrence | |
| Off Spec Fees | | \$TBD Based on material shipped | |
| Advanced Chemical Transport | 1210 Elko Drive, Sunnyvale, CA 94089 | www.advancedchemical.net | CUSTOMER INITIALS |

**ATTACHMENT II.2.D
CURRENT CERTIFIED OPERATOR'S CERTIFICATES**

This certifies successful
completion of the approved 8 hour training course

Robert Sanchez

Hazardous Waste Operations and Emergency Response Refresher

For the purposes of training required under
OSHA 29 CFR 1910.120

Conducted by

Acme Environmental, Inc.

3816 Carlisle NE

Albuquerque, NM 87107

(505) 433-4461

Course date:

05/16/2018

Expiration date:

05/16/2019

Course director:

RS

Certificate number:

051618-07

Solid Waste Facility Operator



Robert M. Sanchez

Operator ID # 1292

has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a Landfill Operator

Presented by

State of New Mexico Environment Department

Connie Pasteris

Connie Pasteris, Certification Officer, Environmental Protection Division

March 28, 2019

Expiration Date

Solid Waste Facility Operator



Robert M. Sanchez

Operator ID # 1292

has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a Recycling Facility Operator

Presented by

State of New Mexico Environment Department

Connie Pasteris

Connie Pasteris, Certification Officer, Environmental Protection Division

May 13, 2019

Expiration Date

Solid Waste Facility Operator



Robert M Sanchez

Operator ID # 1292

has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a Compost Facility Operator

Presented by

State of New Mexico Environment Department

William Schueler

William Schueler, Certification Officer, Environmental Protection

February 7, 2020

Expiration Date



SWANA CERTIFIED PROFESSIONAL

This is to certify that

Robert M. Sanchez

has met the Solid Waste Association of North America's eligibility requirements
and passed a comprehensive examination.

Therefore SWANA hereby designates Robert M. Sanchez as a:

Certified Manager

of

Integrated Solid Waste Management Systems

As of 08/15/2012 until 08/15/2021

Certification No. 91400

David Bideman
Executive Director/CEO

This certifies successful
completion of the approved 8 hour training Course.

Christopher Perea

Hazardous Waste Operations and Emergency Response Refresher

For the purposes of training required under

OSHA 29 CFR 1910.120

Conducted by

Acme Environmental, Inc.

3816 Cattle NE

Albuquerque, NM 87107

(505) 433-4461

Course date:

04/18/2018

Expiration date:

04/18/2019

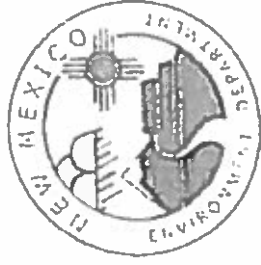
Course director:



Certificate number:

041818-15

Solid Waste Facility Operator



Christopher A. Perea

Operator ID # 2701

has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a Landfill Operator

Presented by

State of New Mexico Environment Department

Connie Pasteris

Connie Pasteris, Certification Officer, Environmental Protection Division

April 3, 2019

Expiration Date

Solid Waste Facility Operator



Christopher A. Perea

Operator ID # 2701

Has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a Recycling Facility Operator

Presented by

State of New Mexico Environment Department

Connie Pasteris, Certification Officer, Environmental Protection Division

January 8, 2019

Expiration Date

Solid Waste Facility Operator



Christopher A. Perea

Operator ID # 2701

has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a Compost Facility Operator

Presented by

State of New Mexico Environment Department

William Schueler

William Schueler, Certification Officer, Environmental Protection

November 10, 2020

Expiration Date

Solid Waste Facility Operator



Mark Hatzenbuehler

Operator ID # 4715

has met the standards and criteria adopted by the Environmental Improvement Board
for Certification as a **Landfill Operator**

Presented by

State of New Mexico Environment Department

William Schuele

William Schuele, Certification Officer, Resource Protection Division

January 14, 2022

Expiration Date

**ATTACHMENT II.2.E
NMED ALTERNATIVE DAILY COVER GUIDANCE**



NEW MEXICO
ENVIRONMENT DEPARTMENT
Environmental Protection Division
Solid Waste Bureau



Harold Runnels Building – Room 2050S
1190 St Francis Dr.
PO Box 5469, Santa Fe, NM 87502-5469
Phone (505) 827-0197 Fax (505) 827-2902
www.nmenv.state.nm.us

GUIDANCE DOCUMENT

Re: Guidance For Approval of Alternate Daily Cover At Landfills

The Solid Waste Bureau (Bureau) has reviewed the information submitted on _____, describing the different types of alternate daily cover (ADC) that _____ is proposing to use at the _____ Landfill. Before addressing the use of these materials, the following general guidelines shall be implemented and written into each of the landfills' operating plans:

1. The long-term stockpiling of ADC materials should be avoided in order to prevent the appearance of materials not being properly disposed or causing a potential health and safety problem. The maximum acceptable storage time depends upon the type of ADC materials to be stored;
2. Areas designated for the short term stockpiling of ADC shall be clearly identified in the landfills' operating plans. This will allow obvious discernment between ADC materials, recyclable storage area(s) and solid wastes;
3. ADC materials that will be mixed prior to application shall be mixed in a manner that minimizes dust generation and windblown litter. The landfills' operating plans shall be revised to specify the proportions of each ADC component when utilizing mixed ADC materials; and
4. ADC materials that are special wastes or otherwise require analytical testing shall be sampled, analyzed and fully documented in each of the landfills' operating records prior to use as ADC. The landfills' operating plans shall identify which ADC materials require analysis and indicate the required parameters and test methods.

The Bureau has placed the requested ADC materials into three categories:

Category I. The Bureau is willing to approve these materials with no specific conditions other than what has been indicated above regarding documentation of the site-specific storage and use practices. Prior to the use of any ADC, the landfill's revised operations plans (or applicable portions thereof) shall be sent to the Bureau for review and approval. This requirement is not applicable for the use of ADC materials that are already being utilized and have already been approved by the Bureau in writing.

Category II. The Bureau is willing to consider approval of these ADC materials after a pilot beneficial use plan has been submitted and the field pilot evaluation has been completed. A plan for each proposed ADC material shall be submitted and the plan shall include a pilot period of one (1) to three (3) months during which the ADC will be evaluated for effectiveness. Weekly

reports shall be submitted to the Bureau. The weekly reports should include assessments of the effectiveness of the ADC's durability, infiltration prevention, vector control, litter control, odor control, fire control, ability for use during inclement weather, cost-effectiveness and any other demonstration information, to include photographs. Any operational difficulties or advantages should also be noted. After the pilot period, the reports will be reviewed and a final decision will be made by the Bureau.

Category III. The Bureau is denying the use of these proposed ADC materials based on potential risk to the public, the facility's employees, or the environment; public perception of the stockpiles or the use of such material as ADC; or other concerns with the type of material(s) proposed, such as, but not limited to, odors or fugitive emissions.

The following materials have been placed into Category I:

1. Tarps
2. Treated Petroleum Contaminated Soils [May be used only after testing in accordance with the landfills' permit requirements and the SWMR confirm that the soil has been properly remediated.]
3. Foam [If foam other than what has already been approved is considered, this ADC material becomes a Category II ADC.]
4. Chipped tires [Must be between two (2) and twelve (12) inches in size.]
5. Tire shreds ["Alligators" acceptable, but must not exceed twelve (12) inches in length.]
6. Shredded green waste [Chipped brush and vegetation must be processed to 80% less than or equal to eight (8) inches, with no large items such as tree stumps.]
7. Clean fill [Broken concrete, reclaimed asphalt, brick, glass, etc., but must not contain any solid waste, such as land clearing debris and construction and demolition debris, and shall be processed to 80% less than or equal to eight (8) inches.]
8. Compost or mulch [Fully composted material acceptable, except that offal/mortality compost shall not be utilized.]
9. Woody trimming waste [Clean material that has been processed to less than or equal to eight (8) inches is acceptable. This ADC material must be woody waste other than land clearing debris (yard waste). (Only untreated, unpainted, source-separated wood trimmings with no attached shingles, mastics, laminates or other similarly affixed materials are allowable.)

The following materials have been placed into Category II:

1. Foams [Other than foams that have already been approved by the Bureau.]
2. Metal [The source and composition of the metals must be submitted to the Bureau for review and approval. Additionally, the method and location of processing the material, if required, must be demonstrated.]
3. Paper pulp slurries [All such proposed ADCs shall pass the USEPA Paint Filter Liquids Test and a demonstration regarding how the ADC will be utilized, stored and mixed with approved ADC or soil shall be submitted to the Bureau for review and approval. Please note that this type of proposed ADC is typically a special waste.]
4. Auto Fluff/Automotive Shredder Residue (ASR) [This proposed ADC is a special waste. In accordance with the Bureau's current policy regarding the management of ASR, the ASR must be tested for PCBs using USEPA Test Method 8082 and may require TCLP metals analysis. A disposal management plan must be approved by the Bureau. If the proposed ADC contains equal to or greater than 50 PPM of PCBs, it may not be utilized as ADC. In addition, this proposed ADC shall be covered with at least three (3) inches of soil, as it has potential to be wind blown. During the pilot period, the proposed ADC may be applied in 4-

6 inch lifts and shall be covered with three (3) inches of soil. Finally, this proposed ADC shall not be stored at the landfills unless it is containerized, covered and used in a timely manner.]

5. Water Treatment Sludge [As opposed to waste water treatment plant (POTW) sludge, this waste may be considered for use as ADC if the material is addressed under a disposal management plan, passes the USEPA Paint Filter Liquids Test, pH is verified, and it is tested by TCLP for all necessary constituents. The specific test parameters and testing frequency shall depend upon the processes through which the material was generated. If utilized, this material shall be mixed with cover soil (as a soil extender) prior to application as ADC. It shall not be mixed with any other ADC materials.]

6. New Technologies [The Bureau requires any new technology to be presented to the Bureau for consideration. Unless the proposed ADC is determined to fall into Category I or Category III, as per this correspondence, a pilot plan shall be accomplished to demonstrate its effectiveness.]

The following materials have been placed into *Category III*:

1. Construction and demolition debris (C&D) [Because of the difficulty in distinguishing between solid waste requiring disposal and the proposed ADC, the potential for C&D to contain unauthorized wastes (such as asbestos), the potential for public concerns about the handling and storage of the C&D, and due to issues concerning its application as a cover material, this material is not approved for use as ADC.]

2. Waste water treatment plant sludge [Because of pathogens, odors and potential for runoff, this material is not approved for use as ADC.]

3. Street sweepings [As a waste with a lack of consistency in its generation that may be contaminated by fluids or other contaminants washed from the roadways, this material is not approved for use as ADC.]

4. Sand trap residues [As a waste with a lack of consistency in its generation that may be contaminated by fluids or other contaminants, this material is not approved for use as ADC.]

5. Asphalt roofing materials [Because of the potential for such materials to contain asbestos and the resulting necessity to determine the condition and asbestos content (if any) of the material, and because of the certainty that heavy equipment will overrun and impact the material, this material is not approved for use as ADC.]

6. Gypsum board [As a waste that is a type of C&D, and because of the relative certainty that its use as ADC would generate fugitive emissions consisting of dusts, and because of pH and Sulfide concerns, this material is not approved for use as ADC.]

7. Plastics such as Visqueen [As a waste with a lack of consistency in its generation and characteristics, and due to issues related to its application and anchoring, and since the material will typically be thinner than standard cover tarps with questionable or varying durability and brittleness, this material(s) is not approved for use as ADC.]

Last revision 7/27/09

**ATTACHMENT II.2.F
TYPICAL WASTE RECEIVING INFORMATION**

Attachment II.2.B
SANDOVAL COUNTY LANDFILL
MATERIALS CODE LIST

| Material Code | Waste Type | Units |
|----------------------|---|--------------|
| 100 | Residential, Non-County | per bag |
| 101 | Truck/Trailer 4x8x2 Bed Level, In-County | per load |
| 102 | Truck/Trailer 4x8x2 Bed Level, Non-County | per load |
| 103 | Truck/Trailer 4x8x4 Cab Level, In-County | per load |
| 104 | Truck/Trailer 4x8x4 Cab Level, Non-County | per load |
| 105 | Trailer 4x8x4 Residential, In-County | per load |
| 106 | Trailer 4x8x4 Residential, Non-County | per load |
| 107 | Loose Residential Waste, In-County | per ton |
| 108 | Loose Residential Waste, Non-County | per ton |
| 111 | C&D Waste, In- County | per ton |
| 112 | C&D Waste, Non-County | per ton |
| 115 | Compacted Waste, Comm. Hauler, In-County | per ton |
| 116 | Compacted Waste, Comm. Hauler, Non-County | per ton |
| 117 | Green Waste, Residential | per ton |
| 119 | Green Waste, Commercial, In-County | per ton |
| 120 | Green Waste, Commercial, Non-County | per ton |
| 123 | Concrete Waste, Comm. Hauler, In-County | per ton |
| 124 | Concrete Waste, Comm. Hauler, Non-County | per ton |
| 127 | Stumps, In-County | per ton |
| 128 | Stumps, Non-County | per ton |
| 131 | Sludge, Comm. Hauler, In-County | per ton |
| 132 | Sludge, Comm. Hauler, Non-County | per ton |
| 135 | Petroleum Contaminated Soil, In-County | per ton |
| 136 | Petroleum Contaminated Soil, Non-County | per ton |
| 141 | Mulch, Commercial, In-County | per ton |
| 142 | Mulch, Commercial, Non-County | per ton |
| 143 | Compost, Pickup Bed Level, In-County | per load |
| 144 | Compost, Pickup Bed Level, Non-County | per load |
| 147 | Compost, Commercial, In-County | per ton |
| 148 | Compost, Commercial, Non-County | per ton |
| 164 | Clean Fill | per ton |
| 200 | No Tarp Fee, Residential | per load |
| 2000 | No Charge Residential (conv. ctr roll-off disposal) | per ton |
| 201 | No Tarp Fee, Commercial | per load |
| 202 | Mattress, In-County | each |
| 203 | Mattress, Non-County | each |
| 204 | Appliances, Residential, In-County | each |
| 205 | Appliances, Residential, Non-County | each |
| 206 | Appliances, Commercial, In-County | each |
| 207 | Appliances, Commercial, Non-County | each |
| 208 | Televisions, In-County | each |
| 209 | Televisions, Non-County | each |
| 210 | Tires | each |
| 211 | Computers | each |
| 253 | Roadrunner Waste, C&D | per ton |
| 254 | Roadrunner Waste, Compacted | per ton |
| 255 | Roadrunner Waste, Concrete | per ton |
| 4000 | Roll-off Rentals | each |
| 500 | Loose Waste, Commercial, In-County Account SKU | per ton |
| 501 | Loose Waste, Commercial, Non-County Account SKU | per ton |
| 502 | Comp. Waste, Commercial, In-County Account SKU | per ton |
| 503 | Comp. Waste, Commercial, Non-County Account SKU | per ton |
| 504 | Green Waste, Commercial, In-County Account SKU | per ton |
| 505 | Green Waste, Commercial, Non-County Account SKU | per ton |
| 506 | Concrete, Commercial, In-County Account SKU | per ton |
| 507 | Concrete, Commercial, Non-County Account SKU | per ton |
| 508 | Stumps, Commercial, In-County Account SKU | per ton |
| 509 | Stumps, Commercial, Non-County Account SKU | per ton |

COUNTY OF SANDOVAL
Chronological Transaction Log
Weekly Transactions 09/16/2010

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| <u>Tran #</u> | <u>Vehicle</u> | <u>Material</u> | <u>Date/Time</u> | <u>Scale</u> | <u>Gross</u> | <u>Net</u> | <u>Units</u> | <u>Charges</u> |
|---------------|----------------|------------------|---------------------|--------------|-------------------------------|------------|--------------|----------------|
| 18919 | 30-09 | 501 | 09/16/2010 8:39 arr | 1 | 15.88 tn | 3.04 tn | 0.00 | 59.28 |
| Account Type: | Account | Charge by Weight | | | | | | |
| 18920 | 952NTT | 111 | 09/16/2010 8:42 arr | 2 | 6.40 tn | 1.39 tn | 0.00 | 35.03 |
| Account Type: | Account | Charge by Weight | | | Comment: FOUR SEED | | | |
| 18921 | 285-400 | 112 | 09/16/2010 8:44 arr | 2 | 39.44 tn | 20.83 tn | 0.00 | 546.79 |
| Account Type: | Account | Charge by Weight | | | Comment: SANDIA PUEBLO HGT | | | |
| 18922 | 28-27 | 501 | 09/16/2010 8:47 arr | 2 | 29.39 tn | 10.72 tn | 0.00 | 219.49 |
| Account Type: | Account | Charge by Weight | | | Comment: TRINITY | | | |
| 18923 | 250-535 | 254 | 09/16/2010 8:49 arr | 2 | 21.86 tn | 9.37 tn | 0.00 | 117.13 |
| Account Type: | Account | Charge by Weight | | | | | | |
| 18924 | 250-342 | 253 | 09/16/2010 8:51 arr | 2 | 19.85 tn | 3.84 tn | 0.00 | 71.88 |
| Account Type: | Account | Charge by Weight | | | Comment: ST. VINCENT HOSPITAL | | | |
| 18925 | 250-346 | 253 | 09/16/2010 8:53 arr | 2 | 21.47 tn | 4.50 tn | 0.00 | 84.24 |
| Account Type: | Account | Charge by Weight | | | Comment: SUNPORT | | | |
| 18926 | 219PXX | 112 | 09/16/2010 9:00 arr | 2 | 6.45 tn | 1.81 tn | 0.00 | 47.51 |
| Account Type: | Account | Charge by Weight | | | Comment: OLD MOBIL RECY. | | | |
| 18927 | 250-345 | 253 | 09/16/2010 9:03 arr | 2 | 16.96 tn | 1.04 tn | 0.00 | 19.47 |
| Account Type: | Account | Charge by Weight | | | Comment: 806 CENTRAL | | | |
| 18928 | 285-420 | 112 | 09/16/2010 9:04 arr | 2 | 31.34 tn | 13.55 tn | 0.00 | 355.69 |
| Account | | | | | | | | |

COUNTY OF SANDOVAL
Chronological Transaction Log
Weekly Transactions 09/16/2010

t

| <u>Tran #</u> | <u>Vehicle</u> | <u>Material</u> | <u>Date/Time</u> | <u>Scale</u> | <u>Gross</u> | <u>Net</u> | <u>Units</u> | <u>Charges</u> |
|---------------|------------------|-----------------|---------------------|------------------------------------|--------------|------------|--------------|----------------|
| Type: Account | Charge by Weight | | | Comment: SANDIA PUEBLO HGT TRK 42 | | | | |
| 18929 | GPD040 | 111 | 09/16/2010 9:06 arr | 2 | 4.54 tn | 0.61 tn | 0.00 | 15.37 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: TREVCO | | | | |
| 18930 | 30-3 | 501 | 09/16/2010 9:08 arr | 2 | 17.28 tn | 3.76 tn | 0.00 | 73.32 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: MAIN STREET | | | | |
| 18931 | 30-01 | 501 | 09/16/2010 9:11 arr | 2 | 15.71 tn | 2.00 tn | 0.00 | 39.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: CEBOLLETA | | | | |
| 18932 | 285-42 | 112 | 09/16/2010 9:12 arr | 2 | 33.57 tn | 16.66 tn | 0.00 | 437.32 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: SANDIA PUEBLO HGT TRK 420 | | | | |
| 18933 | 290-PW84 | 2000 | 09/16/2010 9:16 arr | 2 | 9.42 tn | 0.47 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 18934 | 125-6 | 500 | 09/16/2010 9:29 arr | 2 | 9.41 tn | 1.78 tn | 0.00 | 34.99 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: FRONTAGE RD. | | | | |
| 18935 | 293-400 | 501 | 09/16/2010 9:32 arr | 2 | 19.04 tn | 2.91 tn | 0.00 | 56.75 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: SANDIA CASINO | | | | |
| 18936 | KXW919 | 119 | 09/16/2010 9:33 arr | 2 | 4.84 tn | 0.60 tn | 0.00 | 10.20 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 18937 | 174-35074 | 2000 | 09/16/2010 9:37 arr | 2 | 10.08 tn | 2.20 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: DIST 3 | | | | |
| 18938 | 250-341 | 253 | 09/16/2010 9:39 arr | 2 | 12.60 tn | 3.76 tn | 0.00 | 70.39 |

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| <u>Tran #</u> | <u>Vehicle</u> | <u>Material</u> | <u>Date/Time</u> | <u>Scale</u> | <u>Gross</u> | <u>Net</u> | <u>Units</u> | <u>Charges</u> |
|--------------------------|----------------|------------------|---------------------|--------------|------------------------------|------------|--------------|----------------|
| Account Type: Account | | Charge by Weight | | | Comment: 842 JOHN CUBERO | | | |
| 18939 | 250-335 | 255 | 09/16/2010 9:43 ar | 2 | 20.60 tn | 5.33 tn | 0.00 | 66.63 |
| Account Type: Account | | Charge by Weight | | | Comment: 18TH ST | | | |
| 18940 | KPT941 | 111 | 09/16/2010 9:55 ar | 2 | 4.77 tn | 0.82 tn | 0.00 | 19.68 |
| Account Type: Account | | Charge by Weight | | | | | | |
| 18941 | 547MFM | 107 | 09/16/2010 10:04 ar | 2 | 4.54 tn | 0.33 tn | 0.00 | 7.92 |
| Account Type: Account | | Charge by Weight | | | | | | |
| 18942 | 38-SD2 | 502 | 09/16/2010 10:12 ar | 2 | 17.33 tn | 2.45 tn | 0.00 | 56.19 |
| Account Type: Account | | Charge by Weight | | | | | | |
| 18943 | 285-400 | 112 | 09/16/2010 10:22 ar | 2 | 27.47 tn | 8.98 tn | 0.00 | 235.73 |
| Account Type: Account | | Charge by Weight | | | Comment: SANDIA PUEBLO HGT | | | |
| 18944 | 250-536 | 254 | 09/16/2010 10:29 ar | 2 | 20.23 tn | 7.41 tn | 0.00 | 92.63 |
| Account Type: Account | | Charge by Weight | | | | | | |
| 18945 | 30-4 | 501 | 09/16/2010 10:33 ar | 2 | 20.45 tn | 6.69 tn | 0.00 | 130.46 |
| Account Type: Account | | Charge by Weight | | | Comment: READING/COSCO | | | |
| 18946 | 250-346 | 253 | 09/16/2010 10:42 ar | 2 | 21.14 tn | 3.94 tn | 0.00 | 73.76 |
| Account Type: Account | | Charge by Weight | | | Comment: SAN FELIPE TRANSFER | | | |
| 18947 | FYW214 | 111 | 09/16/2010 10:48 ar | 2 | 6.11 tn | 0.49 tn | 0.00 | 12.35 |
| Account Type: Account | | Charge by Weight | | | | | | |

COUNTY OF SANDOVAL
Chronological Transaction Log
Weekly Transactions 09/16/2010

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| <u>Tran #</u> | <u>Vehicle</u> | <u>Material</u> | <u>Date/Time</u> | <u>Scale</u> | <u>Gross</u> | <u>Net</u> | <u>Units</u> | <u>Charges</u> |
|---------------|----------------|------------------|---------------------|--------------|--------------|------------|--------------|----------------|
| 18948 | 250-345 | 253 | 09/16/2010 10:51 ar | 2 | 17.00 tn | 0.91 tn | 0.00 | 17.04 |
| Account | | | | | | | | |
| Type: | Account | Charge by Weight | | | | | | |
| 18949 | GWY199 | 119 | 09/16/2010 10:53 ar | 2 | 7.64 tn | 1.03 tn | 0.00 | 17.51 |
| Account | | | | | | | | |
| Type: | Account | Charge by Weight | | | | | | |
| 18950 | 30-7 | 501 | 09/16/2010 10:56 ar | 2 | 19.65 tn | 5.97 tn | 0.00 | 116.41 |
| Account | | | | | | | | |
| Type: | Account | Charge by Weight | | | | | | |
| 18951 | 285-42 | 112 | 09/16/2010 10:58 ar | 2 | 26.05 tn | 8.31 tn | 0.00 | 218.14 |
| Account | | | | | | | | |
| Type: | Account | Charge by Weight | | | | | | |
| 18952 | 285-420 | 112 | 09/16/2010 11:00 ar | 2 | 36.36 tn | 19.45 tn | 0.00 | 510.56 |
| Account | | | | | | | | |
| Type: | Account | Charge by Weight | | | | | | |
| 18953 | 30-9 | 501 | 09/16/2010 11:03 ar | 2 | 15.72 tn | 2.91 tn | 0.00 | 56.75 |
| Account | | | | | | | | |
| Type: | Account | Charge by Weight | | | | | | |
| 18954 | WD 5237 | 112 | 09/16/2010 11:05 ar | 2 | 21.70 tn | 10.62 tn | 0.00 | 278.78 |
| Account | | | | | | | | |
| Type: | Account | Charge by Weight | | | | | | |
| 18955 | DXP276 | 111 | 09/16/2010 11:07 ar | 2 | 6.29 tn | 0.32 tn | 0.00 | 8.06 |
| Account | | | | | | | | |
| Type: | Account | Charge by Weight | | | | | | |
| 18956 | 125-1 | 501 | 09/16/2010 11:11 ar | 2 | 17.65 tn | 2.37 tn | 0.00 | 48.53 |
| Account | | | | | | | | |
| Type: | Account | Charge by Weight | | | | | | |
| 18957 | 250-335 | 253 | 09/16/2010 11:20 ar | 2 | 17.16 tn | 1.48 tn | 0.00 | 27.71 |
| Account | | | | | | | | |

COUNTY OF SANDOVAL
Chronological Transaction Log
Weekly Transactions 09/16/2010

t

| <u>Tran #</u> | <u>Vehicle</u> | <u>Material</u> | <u>Date/Time</u> | <u>Scale</u> | <u>Gross</u> | <u>Net</u> | <u>Units</u> | <u>Charges</u> |
|---------------|------------------|-----------------|---------------------|--------------------------------|--------------|------------|--------------|----------------|
| Type: Account | Charge by Weight | | | Comment: 4700 ALAMEDA | | | | |
| 18958 | KPT941 | 111 | 09/16/2010 11:21 ar | 2 | 3.92 tn | 0.11 tn | 0.00 | 2.64 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 18959 | 250-342 | 253 | 09/16/2010 11:31 ar | 2 | 22.48 tn | 6.45 tn | 0.00 | 120.74 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: # 14 BROWN CASTLE RD | | | | |
| 18960 | 121-L3 | 2000 | 09/16/2010 11:37 ar | 2 | 20.53 tn | 3.81 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: C.C. ELIAS | | | | |
| 18961 | 85-30412 | 2000 | 09/16/2010 11:38 ar | 2 | 20.95 tn | 4.56 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 18962 | GBT058 | 119 | 09/16/2010 11:48 ar | 2 | 5.98 tn | 0.91 tn | 0.00 | 15.47 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 18963 | 121-C2 | 2000 | 09/16/2010 11:53 ar | 2 | 22.33 tn | 5.71 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: BUSTER | | | | |
| 18964 | 121-L3 | 2000 | 09/16/2010 11:56 ar | 2 | 21.45 tn | 4.80 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: ELIAS C.C. | | | | |
| 18965 | 30-01 | 501 | 09/16/2010 12:04 pr | 2 | 17.30 tn | 3.35 tn | 0.00 | 65.33 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: SOUTH 2ND ST | | | | |
| 18966 | 285-400 | 112 | 09/16/2010 12:06 pr | 2 | 27.32 tn | 8.85 tn | 0.00 | 232.31 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | Comment: SANDIA PUEBLO HGT TRK | | | | |
| 18967 | KGY673 | 111 | 09/16/2010 12:12 pr | 2 | 3.48 tn | 0.41 tn | 0.00 | 9.84 |

COUNTY OF SANDOVAL
Chronological Transaction Log
Weekly Transactions 09/16/2010

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| <u>Tran #</u> | <u>Vehicle</u> | <u>Material</u> | <u>Date/Time</u> | <u>Scale</u> | <u>Gross</u> | <u>Net</u> | <u>Units</u> | <u>Charges</u> |
|---------------|------------------|-----------------|------------------|--------------|--------------------------------|------------|--------------|----------------|
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 18968 | 250-341 | 253 | 09/16/2010 12:14 | pr 2 | 16.67 tn | 8.03 tn | 0.00 | 150.32 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: 5414 FORTUNA | | | |
| 18969 | 30-7 | 501 | 09/16/2010 12:17 | pr 2 | 15.63 tn | 2.52 tn | 0.00 | 49.14 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: 5005 SAN ADAN | | | |
| 18970 | 250-338 | 253 | 09/16/2010 12:21 | pr 2 | 21.14 tn | 4.01 tn | 0.00 | 75.07 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: SFEL CASINO | | | |
| 18971 | 30-3 | 501 | 09/16/2010 12:27 | pr 2 | 23.72 tn | 10.20 tn | 0.00 | 198.90 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: RIO GRANDE & MONTANO | | | |
| 18972 | 293-201 | 503 | 09/16/2010 12:29 | pr 2 | 26.48 tn | 7.86 tn | 0.00 | 177.79 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: N.VALLEY | | | |
| 18973 | 278-52 | 2000 | 09/16/2010 12:32 | pr 2 | 3.86 tn | 0.20 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: GREEN WAST | | | |
| 18974 | 285-42 | 112 | 09/16/2010 12:34 | pr 2 | 29.69 tn | 12.04 tn | 0.00 | 316.05 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: SANDIA PUEBLO HGT TRK | | | |
| 18975 | 108-70 | 112 | 09/16/2010 12:38 | pr 2 | 12.70 tn | 6.13 tn | 0.00 | 160.91 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: COLUMBIA ST | | | |
| 18976 | 250-534 | 254 | 09/16/2010 12:40 | pr 2 | 14.58 tn | 4.13 tn | 0.00 | 51.63 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |

COUNTY OF SANDOVAL
Chronological Transaction Log
Weekly Transactions 09/16/2010

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| Tran # | Vehicle | Material | Date/Time | Scale | Gross | Net | Units | Charges |
|---------------|------------|------------------|----------------------------|-------|----------|----------|-------|---------|
| 18977 | 33-SHS3 | 503 | 09/16/2010 12:41 pr | 2 | 15.93 tn | 5.36 tn | 0.00 | 127.30 |
| Account Type: | Account | Charge by Weight | | | | | | |
| 18978 | 372PGA | 107 | 09/16/2010 12:44 pr | 2 | 9.98 tn | 3.13 tn | 0.00 | 75.12 |
| Account Type: | Account | Charge by Weight | | | | | | |
| 18979 | 285-420 | 112 | 09/16/2010 12:46 pr | 2 | 39.37 tn | 22.49 tn | 0.00 | 590.36 |
| Account Type: | Account | Charge by Weight | Comment: SANDIA PUEBLO | | | | | |
| 18980 | 242NND | 111 | 09/16/2010 12:51 pr | 2 | 10.06 tn | 1.29 tn | 0.00 | 32.51 |
| Account Type: | Account | Charge by Weight | Comment: ROOFMASTERS | | | | | |
| 18981 | 263-BA 110 | 112 | 09/16/2010 12:55 pr | 2 | 29.15 tn | 11.61 tn | 0.00 | 304.76 |
| Account Type: | Account | Charge by Weight | Comment: BALDONADO | | | | | |
| 18982 | 250-345 | 253 | 09/16/2010 1:01 pr | 2 | 17.98 tn | 2.00 tn | 0.00 | 37.44 |
| Account Type: | Account | Charge by Weight | Comment: UNM PIT | | | | | |
| 18983 | 250-335 | 253 | 09/16/2010 1:05 pr | 2 | 20.93 tn | 5.24 tn | 0.00 | 98.09 |
| Account Type: | Account | Charge by Weight | Comment: 709 HAYNES | | | | | |
| 18984 | 250-433 | 254 | 09/16/2010 1:24 pr | 2 | 30.16 tn | 11.19 tn | 0.00 | 139.88 |
| Account Type: | Account | Charge by Weight | | | | | | |
| 18985 | 229-580PCZ | 112 | 09/16/2010 1:26 pr | 2 | 11.01 tn | 2.63 tn | 0.00 | 69.04 |
| Account Type: | Account | Charge by Weight | Comment: VILLA ELENA APTS. | | | | | |
| 18986 | 290-PW61 | 2000 | 09/16/2010 1:30 pr | 2 | 20.63 tn | 9.21 tn | 0.00 | 0.00 |
| Account | | | | | | | | |

COUNTY OF SANDOVAL
Chronological Transaction Log
Weekly Transactions 09/16/2010

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| <u>Tran #</u> | <u>Vehicle</u> | <u>Material</u> | <u>Date/Time</u> | <u>Scale</u> | <u>Gross</u> | <u>Net</u> | <u>Units</u> | <u>Charges</u> |
|-----------------|------------------|-----------------|--------------------|--------------|-------------------------------|------------|--------------|----------------|
| Type: Account | Charge by Weight | | | | | | | |
| 18987 | 290-PW37 | 2000 | 09/16/2010 1:37 pm | 2 | 19.18 tn | 9.10 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 18988 | CKL969 | 111 | 09/16/2010 1:42 pm | 2 | 6.75 tn | 1.00 tn | 0.00 | 24.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 18989 | 250-342 | 253 | 09/16/2010 1:44 pm | 2 | 16.35 tn | 0.42 tn | 0.00 | 7.86 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: SFE OUTLET MALL | | | |
| 18990 | 290-PW70 | 119 | 09/16/2010 1:48 pm | 2 | 6.85 tn | 0.37 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: No Charge | Charge by Weight | | | | | | | |
| 18991 | 30-9 | 501 | 09/16/2010 1:50 pm | 2 | 17.54 tn | 3.80 tn | 0.00 | 74.10 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: MACK CONS 300 DORADO | | | |
| 18992 | 272-8 | 503 | 09/16/2010 1:52 pm | 2 | 18.52 tn | 8.10 tn | 0.00 | 183.22 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 18993 | 30-10 | 501 | 09/16/2010 1:54 pm | 2 | 22.48 tn | 8.95 tn | 0.00 | 174.53 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: PASEO & I-25 | | | |
| 18994 | 285-400 | 112 | 09/16/2010 1:56 pm | 2 | 28.30 tn | 9.70 tn | 0.00 | 254.63 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: SANDIA PUEBLO HGT | | | |
| 18995 | 250-346 | 253 | 09/16/2010 2:05 pm | 2 | 18.60 tn | 1.87 tn | 0.00 | 35.01 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: SANDIA HIGH SCHOOL | | | |
| 18996 | ECLIPSE | 111 | 09/16/2010 2:10 pm | 2 | 4.11 tn | 0.62 tn | 0.00 | 15.62 |

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| <u>Tran #</u> | <u>Vehicle</u> | <u>Material</u> | <u>Date/Time</u> | <u>Scale</u> | <u>Gross</u> | <u>Net</u> | <u>Units</u> | <u>Charges</u> |
|--------------------------|----------------|------------------|------------------|--------------|--------------|------------|--------------|----------------|
| Account Type: Account | | Charge by Weight | | | | | | |
| 18997 | 250-535 | 254 | 09/16/2010 2:12 | pr 2 | 22.42 tn | 9.98 tn | 0.00 | 124.75 |
| Account Type: Account | | Charge by Weight | | | | | | |
| 18998 | 285-42 | 112 | 09/16/2010 2:15 | pr 2 | 39.14 tn | 21.52 tn | 0.00 | 564.90 |
| Account Type: Account | | Charge by Weight | | | | | | |
| 18999 | 121-C2 | 2000 | 09/16/2010 2:22 | pr 2 | 20.27 tn | 3.81 tn | 0.00 | 0.00 |
| Account Type: Account | | Charge by Weight | | | | | | |
| 19000 | 285-420 | 112 | 09/16/2010 2:26 | pr 2 | 40.07 tn | 23.21 tn | 0.00 | 609.26 |
| Account Type: Account | | Charge by Weight | | | | | | |
| 19001 | 119-4 | 500 | 09/16/2010 2:28 | pr 2 | 7.27 tn | 0.69 tn | 0.00 | 12.92 |
| Account Type: Account | | Charge by Weight | | | | | | |
| 19002 | DPN9209 | 112 | 09/16/2010 2:30 | pr 2 | 4.98 tn | 1.35 tn | 0.00 | 35.44 |
| Account Type: Account | | Charge by Weight | | | | | | |
| 19003 | FRZ895 | 111 | 09/16/2010 2:34 | pr 2 | 6.54 tn | 1.21 tn | 0.00 | 30.49 |
| Account Type: Account | | Charge by Weight | | | | | | |
| 19004 | 290-PW61 | 2000 | 09/16/2010 2:37 | pr 2 | 22.48 tn | 11.10 tn | 0.00 | 0.00 |
| Account Type: Account | | Charge by Weight | | | | | | |
| 19005 | 30-7 | 501 | 09/16/2010 2:39 | pr 2 | 14.09 tn | 1.44 tn | 0.00 | 28.08 |
| Account Type: Account | | Charge by Weight | | | | | | |

Comment: 821 GIBSON

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| <u>Tran #</u> | <u>Vehicle</u> | <u>Material</u> | <u>Date/Time</u> | <u>Scale</u> | <u>Gross</u> | <u>Net</u> | <u>Units</u> | <u>Charges</u> |
|---------------|----------------|------------------|------------------|--------------|---------------------------|------------|--------------|----------------|
| 19006 | JFW325 | 107 | 09/16/2010 2:43 | pr 2 | 2.83 tn | 0.10 tn | 0.00 | 2.40 |
| Account Type: | Account | Charge by Weight | | | | | | |
| 19007 | 30-4 | 501 | 09/16/2010 2:46 | pr 2 | 19.39 tn | 5.78 tn | 0.00 | 112.71 |
| Account Type: | Account | Charge by Weight | | | Comment: PRINCETON | | | |
| 19008 | 174-16513 | 2000 | 09/16/2010 2:48 | pr 2 | 5.59 tn | 0.50 tn | 0.00 | 0.00 |
| Account Type: | Account | Charge by Weight | | | | | | |
| 19009 | 37-66716 | 502 | 09/16/2010 2:49 | pr 2 | 15.49 tn | 2.23 tn | 0.00 | 51.14 |
| Account Type: | Account | Charge by Weight | | | | | | |
| 19010 | 250-338 | 253 | 09/16/2010 2:51 | pr 2 | 18.67 tn | 1.60 tn | 0.00 | 29.95 |
| Account Type: | Account | Charge by Weight | | | Comment: 2400 BROADWAY SE | | | |
| 19011 | 250-335 | 253 | 09/16/2010 2:52 | pr 2 | 20.81 tn | 5.12 tn | 0.00 | 95.85 |
| Account Type: | Account | Charge by Weight | | | Comment: 206 DAY SCHOOL | | | |
| 19012 | 30-3 | 501 | 09/16/2010 2:54 | pr 2 | 16.57 tn | 3.01 tn | 0.00 | 58.70 |
| Account Type: | Account | Charge by Weight | | | Comment: PINO & I-25 | | | |
| 19013 | 263-BA110 | 112 | 09/16/2010 2:56 | pr 2 | 29.24 tn | 11.70 tn | 0.00 | 307.13 |
| Account Type: | Account | Charge by Weight | | | Comment: BALDONADO | | | |
| 19014 | 290-37 | 2000 | 09/16/2010 2:58 | pr 2 | 20.43 tn | 10.37 tn | 0.00 | 0.00 |
| Account Type: | Account | Charge by Weight | | | | | | |
| 19015 | 250-536 | 254 | 09/16/2010 3:00 | pr 2 | 18.81 tn | 6.03 tn | 0.00 | 75.38 |
| Account Type: | Account | Charge by Weight | | | | | | |

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| <u>Tran #</u> | <u>Vehicle</u> | <u>Material</u> | <u>Date/Time</u> | <u>Scale</u> | <u>Gross</u> | <u>Net</u> | <u>Units</u> | <u>Charges</u> |
|---------------|----------------|------------------|------------------|--------------|----------------------------|------------|--------------|----------------|
| Type: Account | | Charge by Weight | | | | | | |
| 19016 | 282-05 | 503 | 09/16/2010 3:02 | pr 2 | 14.57 tn | 3.55 tn | 0.00 | 84.31 |
| Account | | | | | | | | |
| Type: Account | | Charge by Weight | | | | | | |
| 19017 | 278-52 | 2000 | 09/16/2010 3:03 | pr 2 | 3.77 tn | 0.21 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | | Charge by Weight | | | | | | |
| 19018 | 174-35074 | 2000 | 09/16/2010 3:04 | pr 2 | 13.09 tn | 5.25 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | | Charge by Weight | | | | | | |
| 19019 | 293-405 | 501 | 09/16/2010 3:12 | pr 2 | 19.29 tn | 4.01 tn | 0.00 | 78.19 |
| Account | | | | | | | | |
| Type: Account | | Charge by Weight | | | Comment: ALAMEDA & 2ND | | | |
| 19020 | FPW297 | 111 | 09/16/2010 3:15 | pr 2 | 9.55 tn | 3.23 tn | 0.00 | 81.40 |
| Account | | | | | | | | |
| Type: Account | | Charge by Weight | | | Comment: A NEW MILLENIUM | | | |
| 19021 | 282-01 | 503 | 09/16/2010 3:24 | pr 2 | 13.39 tn | 3.06 tn | 0.00 | 72.68 |
| Account | | | | | | | | |
| Type: Account | | Charge by Weight | | | | | | |
| 19022 | 290-PW61 | 2000 | 09/16/2010 3:28 | pr 2 | 23.77 tn | 12.38 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | | Charge by Weight | | | | | | |
| 19023 | BB 753 | 107 | 09/16/2010 3:31 | pr 2 | 5.05 tn | 0.26 tn | 0.00 | 6.24 |
| Account | | | | | | | | |
| Type: Account | | Charge by Weight | | | Comment: DOMINGUEZ | | | |
| 19024 | 285-400 | 112 | 09/16/2010 3:35 | pr 2 | 46.90 tn | 28.47 tn | 0.00 | 747.34 |
| Account | | | | | | | | |
| Type: Account | | Charge by Weight | | | Comment: SANDIA PUEBLO HGT | | | |
| 19025 | 223-112903 | 111 | 09/16/2010 3:38 | pr 2 | 10.37 tn | 0.60 tn | 0.00 | 15.12 |

COUNTY OF SANDOVAL
Chronological Transaction Log
Weekly Transactions 09/16/2010

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| <u>Tran #</u> | <u>Vehicle</u> | <u>Material</u> | <u>Date/Time</u> | <u>Scale</u> | <u>Gross</u> | <u>Net</u> | <u>Units</u> | <u>Charges</u> |
|---------------|------------------|-----------------|--------------------|--------------|------------------------------|------------|--------------|----------------|
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 19026 | 443NYC | 111 | 09/16/2010 3:46 pm | 2 | 4.76 tn | 0.20 tn | 0.00 | 5.04 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: IKE'S TREE SRVICE | | | |
| 19027 | 250-343 | 253 | 09/16/2010 3:48 pm | 2 | 23.31 tn | 7.45 tn | 0.00 | 139.46 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: TANOAN | | | |
| 19028 | 495PNR | 111 | 09/16/2010 3:49 pm | 2 | 5.52 tn | 0.66 tn | 0.00 | 15.84 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 19029 | 285-42 | 112 | 09/16/2010 3:50 pm | 2 | 36.11 tn | 18.48 tn | 0.00 | 485.10 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: SANDIA PUEBLO - HGT | | | |
| 19030 | 290-PW71 | 2000 | 09/16/2010 4:01 pm | 2 | 16.47 tn | 8.30 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 19031 | 282-3 | 503 | 09/16/2010 4:03 pm | 2 | 14.49 tn | 3.51 tn | 0.00 | 83.37 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 19032 | 293-410 | 501 | 09/16/2010 4:05 pm | 2 | 18.08 tn | 2.33 tn | 0.00 | 45.44 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | Comment: CAMINO DEL SOL | | | |
| 19033 | 290-PW84 | 2000 | 09/16/2010 4:10 pm | 2 | 9.77 tn | 0.47 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |
| 19034 | 290-PW6 | 2000 | 09/16/2010 4:12 pm | 2 | 16.05 tn | 7.81 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account | Charge by Weight | | | | | | | |

COUNTY OF SANDOVAL
Chronological Transaction Log
Weekly Transactions 09/16/2010

t

| <u>Tran #</u> | <u>Vehicle</u> | <u>Material</u> | <u>Date/Time</u> | <u>Scale</u> | <u>Gross</u> | <u>Net</u> | <u>Units</u> | <u>Charges</u> |
|--------------------------------|----------------|-----------------|--------------------|--------------|--------------|------------|--------------|----------------|
| 19035 | 290-37 | 2000 | 09/16/2010 4:14 pm | 2 | 22.78 tn | 12.65 tn | 0.00 | 0.00 |
| Account | | | | | | | | |
| Type: Account Charge by Weight | | | | | | | | |
| 19036 | 282-4 | 503 | 09/16/2010 4:15 pm | 2 | 15.52 tn | 4.07 tn | 0.00 | 96.66 |
| Account | | | | | | | | |
| Type: Account Charge by Weight | | | | | | | | |
| Grand Total: | | | | 118 | 2055.18 tn | 654.51 tn | 0.00 | 12,253.59 |

**ATTACHMENT II.2.G
SPRAY-APPLIED COATING ADC LITERATURE**



Alternative Daily Cover



Upon application forms a consistent and effective layer between waste and the surrounding environment



Dyed green to confirm coverage rate for efficiency, unlike non-dyed spray-on products



Debris on an open-faced landfill



A polysaccharide tackifier increases the surface bond to debris, including plastic and other slick-surface materials, ultimately lowering blowing debris and trapping odors

An Effective, Cost-Saving Alternative to Soil or Tarps

BioCover™ Alternative Daily Cover (ADC) is hydraulically applied, meets federal regulations, is less expensive than other alternate covers and is easier to apply. Manufactured from Thermally Refined® wood fibers combined with cellulose fiber and a viscous polysaccharide tackifier, BioCover is the superior alternative to soil, mulch or plastic daily covers.

BioCover Advantages:

- Better for the environment—minimizes the accumulated leachate pockets and leachate seeps that are typically caused by continuous daily soil cover practices; designed as 100% biodegradable and non-toxic
- Preserves air space—creates a uniform protective layer that is dramatically thinner than comparably effective soil applications, increasing available space and the functional lifespan of the landfill
- Improves Landfill Gas Management System efficiency—minimizes the number of intermediate impervious layers which increases the capture zone and efficiency of the gas extraction system
- Prevents water infiltration—reduces leachate runoff with excellent absorption properties
- Lowers emissions—conserves fuel, requiring less excavation and transportation equipment needed on the jobsite
- Inhibits scavengers—deters unwanted pests

BioCover™ ADC Technical Data:

BioCover™ meets the ASTM International's standard guide for evaluation and selection of alternative daily covers for sanitary landfills (ASTM 6523-00), assists in the understanding of performance features to determine the extent and degree to which different ADC's are able to "control disease vectors, fires, odors, blowing litter, and scavenging without presenting a threat to human health and the environment" as intended by United States Environmental Protection Agency regulations.

As with any ADC, the final application cost per square foot will vary depending on the type of waste materials, compaction, moisture content, weather conditions, local regulatory requirements and local environmental issues. However, BioCover is the fastest, provides the best coverage and is the most affordable option on the market today.

COMPOSITION

Thermally Refined® Wood Fiber—51% ± 3%

Cellulose Fiber—27% ± 3%

Polysaccharide Tackifier—10% ± 1%

Moisture Content—12% ± 3%

ADC APPLICATION RATE

BioCover should be used at 1500-2500 pounds per acre (1700-2800 kg/ha).

**1/4" (0.64 cm) ADC NEEDED PER APPLICATION VS
6" (15 cm) COMPACTED SOIL**

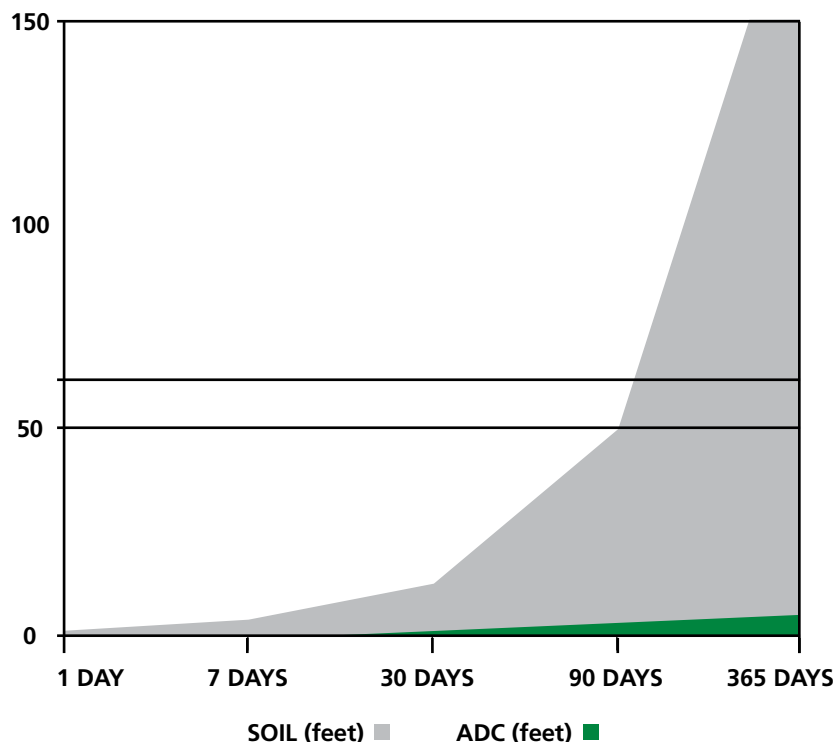


Chart demonstrates amount of landfill space lost over the course of a year with a standard soil application compared to ADC. ADC requires minimal coverage of 1/4-inch (0.64 cm) per application, resulting in greater available landfill space for waste.

PACKAGING

Bales: Net Weight – 50 lb (23 kg)

Pallets: 40 bales/pallet 1 ton (907 kg)/pallet

BIOCOVER PRESERVES LANDFILL CAPACITY

Soil—33 square feet (0.93 m³) of dirt on top of the refuse (when applied at six inches (15 cm) of soil per day)

BioCover—33 inches (0.02 ft³) of material (when applied at 1/4-inch (0.64 cm) per day)



Green Design Engineering™ is a holistic approach that combines agronomic and engineering expertise with advanced technologies to provide cost-effective and earth-friendly solutions. Profile strives to deliver Green Design Engineering across our team of consulting professionals, innovative products and educational resources.



PS³ is a free, comprehensive 24/7 online resource you can use to design a project and select the right products that address both the physical and agronomic needs of your site. It will help you develop holistic, sustainable solutions for cost-effective erosion control, vegetation establishment and subsequent reductions in sediment and other pollutants from leaving disturbed sites. Because good plans start with the soil, PS³ offers free soil testing to ensure this critical step is considered. To access the site, design your project and take advantage of a free soil analysis, visit www.profileps3.com.



For technical information or distribution, please call 800-508-8681. For customer service, call 800-366-1180.

For warranty information, visit profileproducts.com.

750 Lake Cook Road • Suite 440
Buffalo Grove, IL 60089
www.profileproducts.com

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Profile and Thermally Refined are registered trademarks of PROFILE Products LLC. BioCover, Green Design Engineering, Solutions for your Environment and Earth-Friendly Solutions for Sustainable Results are trademarks of PROFILE Products LLC.



| | |
|---|---|
| 1 | PRODUCT AND COMPANY IDENTIFICATION |
|---|---|

Manufacturer

PROFILE Products, LLC
 750 LAKE COOK ROAD
 SUITE 440
 BUFFALO GROVE, IL 60089

Phone: (847) 215-1144
 Fax: (847) 215-0577
 Email: profileproducts.com
 Web: www.profileproducts.com

Product Name: BioCover®
 Revision Date: 5/1/12
 MSDS Number: CON046
 CAS Number: Not applicable
 Product Use: Erosion control mulch for hydraulic seeding

Product Description: Green dyed wood fibers, a proprietary binder mixture and other inert materials.

| | |
|---|-------------------------------|
| 2 | HAZARDS IDENTIFICATION |
|---|-------------------------------|

Route of Entry: Inhalation, skin contact, eye contact
 Inhalation: Wood may cause sneezing, irritation, and dryness of the nose and throat. Dust may aggravate pre-existing respiratory conditions.
 Skin Contact: Wood dust can cause irritation. Skin absorption is not known to occur.
 Eye Contact: Wood dust can irritate the eyes.
 Ingestion: No reports of human ingestion.

OSHA Classification: Wood dust is a hazardous substance as defined by the Hazard Communication Standard 29CFR 1910.1200

| | |
|---|---|
| 3 | COMPOSITION/INFORMATION ON INGREDIENTS |
|---|---|

Ingredients:

| Cas # | Perc. | Chemical Name |
|---------|-------------|---------------|
| | | |
| 9000300 | Proprietary | Guar gum |

4 FIRST AID MEASURES

Inhalation: Usually not a problem. Remove to fresh air if respiratory irritation develops, and get medical aid promptly if irritation persists.

Skin Contact: Usually not a problem. Wash off with running water if irritation is experienced.

Eye Contact: Open eyelids and flush with water.

Ingestion: Get medical attention.

5 FIRE FIGHTING MEASURES

Flammability: Combustible product

Flash Point: Not applicable

Flash Point Method: Not applicable

Autoignition Temp: 200-206°C (400-500°F)

Conditions to avoid: In contact with flames or hot surfaces

Flammable- Extinguish with water; same as a wood fire

6 ACCIDENTAL RELEASE MEASURES

Scoop up product. Wear goggles and respirator if dust is produced in unventilated areas. Wet product will be slippery.

7 HANDLING AND STORAGE

Handling Precautions: Clean up areas where dust settles. Minimize blowdown or other practices that generate high airborne dust concentrations.

Storage Requirements: Store in a cool, dry place. Keep away from sources of ignition.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: None required for outdoor mixing and application. Use dust collection system for indoor handling operations.

Personal Protective Equip: Eye Protection: Wear goggles when emptying bags and during other operations where there is a risk of dust entering the eyes.

Gloves: Leather, plastic or rubber gloves could be worn to minimize skin irritation.

Respirators: When handling methods generate dust at concentrations that exceed occupational exposure limits, wear a NIOSH approved respirator. A fabric respirator or a facepiece respirator with dust cartridges will generally provide adequate protection.

Footwear: The product is slippery when wet. Wear appropriate footwear.

| | |
|----------|---|
| 9 | PHYSICAL AND CHEMICAL PROPERTIES |
|----------|---|

| | | | |
|---------------------|---|-------|----------------|
| Appearance: | Dyed green wood fibers - Pine & mixed hardwoods | | |
| Physical State: | Wood Fibers | Odor: | Mild wood odor |
| Spec Grav./Density: | lighter than water | | |
| Vapor Pressure: | N/A | | |

| | |
|-----------|---------------------------------|
| 10 | STABILITY AND REACTIVITY |
|-----------|---------------------------------|

| | | | |
|---------------------------|---|--|--|
| Stability: | Stable product | | |
| Conditions to Avoid: | Contact with strong acids and oxidizers may generate heat. Product may ignite at temperatures in excess of 200°C (400°F). | | |
| Materials to Avoid: | Strong acids and oxidizers | | |
| Hazardous Polymerization: | Will not occur. | | |

| | |
|-----------|----------------------------------|
| 11 | TOXICOLOGICAL INFORMATION |
|-----------|----------------------------------|

EFFECTS OF CHRONIC EXPOSURE:

Inhalation: Frequent and repeated exposure to wood dust is associated with an increased risk of developing nasal cancer.
 Skin Contact: Although rare, wood dust may cause dermatitis in sensitized people.

Occupational Exposure Limits:

Wood dusts- All other species: ACGIH (2007): TLV-TWA 1 mg/m³ (Inhalable fraction); A4

Particulates Not Otherwise Regulated (PNOR): OSHA: PEL-TWA 15 mg/m³ (Total Dust);
 5 mg/m³ (Respirable fraction)

Irritancy: Wood dust is a mild irritant
 Sensitization: Some wood dusts may cause allergic skin reactions

| | |
|-----------|-------------------------------|
| 12 | ECOLOGICAL INFORMATION |
|-----------|-------------------------------|

Guar Gum (CAS# 9000-30-0) is listed as an inert ingredient permitted for use in nonfood use pesticide products by EPA. It is also classified under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as a minimal risk inert substance (List 4A) meaning that as a pesticide, guar gum is considered by the EPA to pose little or no risk to humans or the environment. The US Department of Agriculture (USDA) National Organic Program (NOP) also allows the use of Guar Gum in a variety of applications, but primarily as a pesticide in organic production operations. Finally, Guar Gum is listed on the Generally Recognized as Safe (GRAS) list by the Food and Drug Administration.

96-hr Survival LC₅₀ = >100% for *Daphnia magna* when runoff generated using ASTM D7101 (4"/hr rainfall rate) was tested according to EPA-821-R-02-012.

13 DISPOSAL CONSIDERATIONS

Normally can be disposed of as a wood residue. Ensure disposal is in compliance with local, provincial (state), and federal regulations.

14 TRANSPORT INFORMATION

DOT Class: Not regulated #

15 REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Guar gum (9000300 n/a%) TSCA

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List
 NRC = Nationally Recognized Carcinogens
 OSHAWAC = OSHA Workplace Air Contaminants
 PA = PA Right-To-Know List of Hazardous Substances
 TXAIR = TX Air Contaminants with Health Effects Screening Level

CERCLA = Superfund clean up substance
 CSWHS = Clean Water Act Hazardous substances
 EHS302 = Extremely Hazardous Substance
 EPCRAWPC = EPCRA Water Priority Chemicals
 HAP = Hazardous Air Pollutants
 NJEHS = NJ Extraordinarily Hazardous Substances
 NJHS = NJ Right-to-Know Hazardous Substances
 OSHAPSM = OSHA Chemicals Requiring process safety management
 SARA313 = SARA 313 Title III Toxic Chemicals

TSCA = Toxic Substances Control Act

16 OTHER INFORMATION

Posi-Shell®

ENVIRONMENTAL COATINGS

The most effective, versatile,
and cost-efficient cover
system for landfills

- Extends landfill life
- Reduces operational costs
- Addresses multiple challenges



Benefits and Uses

Using Posi-Shell® instead of natural soil for daily cover is your ticket to achieving maximum airspace utilization. Posi-Shell is the one system that gives you easy access to every cubic yard of airspace formerly consumed by thick soil covers.

Posi-Shell is affordable in your existing landfill budget as it allows you to reduce equipment usage and manpower hours. Along with these benefits you can also address other landfill challenges with this one system such as:

Intermediate Cover

Erosion Control

Odor Suppression

Litter Control

Waste Latex Recycling

Leachate Recycling



Erosion Control in Hong Kong, using PSA-2000 Applicator

Mixing and Application

Mixing is accomplished using LSC Equipment or standard hydroseeding units.

Mixing and application can be completed with one operator, and typically takes 45-60 minutes. Clean up takes about 10 minutes.

Brief Specifications

- Non-flammable
- Adheres to any surface
- Up to 95% water shed (run off)
- Durability from overnight to years depending on formula

Packaging

Bags: 50 lb. (23 kg.)
60 bags per pallet

Bulk Sacks: 500 lb (230 kg.)
4 sacks per pallet



**Contact us for a free
site consultation today.**

LSC Environmental Products, LLC
800-800-7671 or 607-625-3050
www.lscenv.com

Technology described herein may be covered by one or more patents or pending patent applications. See website for patent details. Posi-Shell is registered in the U.S. Patent and Trademark Office.



MATERIAL SAFETY DATA SHEET

Date of Preparation: November, 2012

SECTION 1 — IDENTIFICATION

Supplier: LSC Environmental Products, LLC
2183 Pennsylvania Ave
Apalachin, NY 13732

Emergency Telephone: 800-800-7671 (LSC Environmental Products, LLC)

Product/Trade Name: **Posi-Shell Base Mix**

Chemical Name: SODIUM MONTMORILLONITE CLAY WITH ADDITIVES, POLYESTER
FIBERS AND BROWN FERROUS OXIDE COLOR

Generic Name: SMC with proprietary additives, Polyester Fibers and Brown Color

SECTION 2 — HAZARD(S) IDENTIFICATION

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: Mechanical irritant.

SKIN: Possible drying resulting in dermatitis.

INGESTION: No adverse effects.

INHALATION: *Acute* (short term) exposure to dust levels exceeding the PEL may cause irritation of respiratory tract resulting in a dry cough. *Chronic* (long term) exposure to airborne SMC dust containing respirable size ($\approx 10\mu$) quarter particles, where respirable quartz particle levels are higher than TLVs, may lead to development of silicosis or other respiratory problems. Persistent dry cough and labored breathing upon exertion may be symptomatic.

CARCINOGENICITY: SMC is not listed by ACGIH, IARC, NTP, or OSHA. IARC, 1997, concludes that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica from occupational sources (IARC Class 1), that carcinogenicity was not detected in all industrial circumstances studied and that carcinogenicity may depend on characteristics of the crystalline silica or on external factors affecting its biological activity. NTP classifies respirable crystalline silica as "known to be a human carcinogen" (NTP 9th Report on Carcinogens - 2000). ACGIH classifies crystalline silica quartz as a suspected human carcinogen (A2).

NOTE: Polyester Staple is a family of fiber products having similar hazard and physical property characteristics. The polymer immobilizes the constituents of the polymer system (delusterants, catalyst residues, etc.) which, therefore, present no likelihood of exposure under normal conditions of processing and handling.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Information on Ingredients

| | |
|---|-----------------|
| Sodium Montmorillonite Clay with Additives | CAS# 1318-93-0 |
| Crystalline Silica (SiO ₂) as Quartz | CAS# 14808-60-7 |
| Polyethylene terephthalate polymer and one or more surface finishes (organic lubricants) – Polyester Staple | CAS#25038-59-9 |
| Brown Ferrous Oxide | CAS#1309-37-1 |

SECTION 4 — FIRST AID MEASURES

Page 2

EYE: Flush eyes with plenty of water until irritation ceases.

SKIN: Wash with soap and water until clean.

INHALATION: Move to area free from dust. If symptoms of irritation persist, contact physician. Inhalation may aggravate existing respiratory illness.

SECTION 5 — FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: Not applicable.

SPECIAL FIRE FIGHTING PROCEDURES: Not applicable.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Product will not support combustion.

FLAMMABILITY LIMITS

LEL: Not applicable.

UEL: Not applicable.

HAZARDOUS COMBUSTION PRODUCTS: During a fire, smoke may contain the original material in addition to unidentified toxic and / or irritating compounds. Hazardous combustion products may include and are not limited to carbon monoxide, carbon dioxide.

OTHER FLAMMABILITY INFORMATION: Polyester fibers will burn if exposed to flame. Decomposition products generated from molten polymer may be subject to autoignition. Combustion products will be comprised of carbon, hydrogen, and oxygen. The exact composition will depend on the conditions of combustion.

EXTINGUISHING MEDIA: None for product. Any media can be used for the packaging. Product becomes slippery when wet.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Hand held carbon dioxide or dry chemical hazard may result from forceful application of fire extinguishing agents.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance. Fire fighters should protect themselves from decomposition and combustion products that may include carbon monoxide and other toxic gases.

SECTION 6 — ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Avoid breathing dust; wear respirator approved for silica bearing dust. Material becomes slippery when wet.

CLEANUP: Vacuum up to avoid generating airborne dust. Avoid using water.

SECTION 7 — HANDLING AND STORAGE

Page 3

HANDLING: Use NIOSH/MSHA respirators approved for silica bearing dust when free silica containing airborne SMC dust levels exceed PEL/TLVs. Clean up spills promptly to avoid making dust. Storage area floors may become slippery if wetted. Personal hygiene measures, such as washing hands and face immediately after working with the fibers and before eating, smoking, or using lavatory facilities, are recommended.

STORAGE: Store in a dry place. Store below 90 F (32 C).

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Mechanical, general room ventilation. Use local ventilation to maintain PELs/TLVs.

PERSONAL PROTECTIVE EQUIPMENT

EYE / FACE PROTECTION: Generally not necessary. Personal preference.

SKIN PROTECTION: Generally not necessary. Personal preference.

RESPIRATORY PROTECTION: Use respirators approved by NIOSH/MSHA for silica bearing dust.

EXPOSURE GUIDELINES:

Permissible Exposure Limits (for air contaminants):

| | <u>OSHA PEL</u> <u>(8 hr. TWA)</u> | <u>ACGIH TVL</u> |
|--|---|-------------------------|
| SMC as "Particulates not otherwise regulated" (formerly nuisance dust) | | |
| Total Dust | 15 mg/m ³ | N/D |
| Respirable Dust | 5 mg/m ³ | N/D |
| Crystalline Quartz (respirable) | 0.1 mg/m ³ | 0.1 mg/m ³ |
| Iron Oxide | Not Est. | Not Est. |

Inhalation of finish mist above the recommended 3 mg/m³ 8-hour TWA would be an exposure of concern.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---------------------------------------|
| Boiling Point (°F): | N/A |
| Vapor Pressure (mm. Hg): | N/A |
| Vapor Density (Air=1): | N/A |
| Solubility in Water: | Insoluble, forms colloidal suspension |
| Density (at 20° C): | 55 lbs/cu ft as product |
| Specific Gravity (H ₂ O=1): | 2.45-2.55 |
| Melting Point: | Approx. 1450° C |
| Evaporation Rate (Butyl Acetate=1): | N/A |
| pH: | 8-10 (5% aqueous suspension) |

SECTION 10 — STABILITY AND REACTIVITY

CHEMICAL STABILITY: Polyethylene terephthalate is chemically stable and resistant to attack by oils, solvents, weak acids, and weak alkalis. SMC is stable. Ferrous Oxide is stable.

CONDITIONS TO AVOID: None.

Page 4

HAZARDOUS DECOMPOSITION PRODUCTS: None.

HAZARDOUS POLYMERIZATION: None.

INCOMPATIBILITY WITH OTHER MATERIALS: None.

SECTION 11 — TOXICOLOGICAL INFORMATION

(See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1). This product has not been fully evaluated for toxicological properties. Preliminary evaluation of chemical components used in the finish and toxicological testing of the ingredients have given no indication that health problems would occur in normal handling and use.

SECTION 12 — ECOLOGICAL INFORMATION

(For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

ECOTOXICITY: Not expected to be acutely toxic.

SECTION 13 — DISPOSAL CONSIDERATIONS

(See Section 15 for Regulatory Information)

DISPOSAL: Product should be disposed of in accordance with applicable local, state, and federal regulations.

SECTION 14 — TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): This product is not regulated by D.O.T. when shipped domestically by land.

CANADIAN TDG INFORMATION: For TDG regulatory information, if required, consult transportation regulations, product shipping papers.

SECTION 15 — REGULATORY INFORMATION

(Not meant to be all-inclusive—selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

These products are not classified as hazardous wastes under the Resource Conservation and Recovery Act, and unless prohibited by state or local regulation, can be disposed of in a municipal landfill or incinerated. Any finish oils contained in plant wastewater should be biodegradable in conventional biological wastewater treatment systems.

MSDS STATUS: Revised to 16 Section format.

All information presented herein is believed to be accurate; however, it is the user's responsibility to determine in advance of need that the information is current and suitable for their circumstances.

No warranty or guarantee, expressed or implied, is made by LSC Environmental Products, LLC as to this information or as to the safety, toxicity, or effect of the use of this product.

Not only is TOPCOAT the least expensive way to meet government landfill daily cover regulations, it's the best.

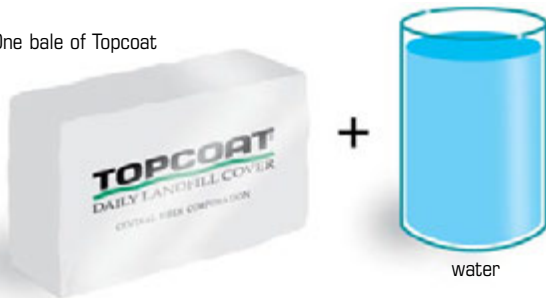
TOPCOAT is an alternative daily landfill cover manufactured from post-consumer paper, chemicals and other proprietary ingredients. All ingredients are non-toxic and biodegradable.

TOPCOAT meets all federal regulations. It's the easiest, least-expensive way to control disease vectors, fires, odors, blowing litter and scavenging. Topcoat is:

- cheaper and easier than dirt
- easier and more effective than tarps
- easier and safer than other spray-on covers
- the best daily cover available today!

Using TOPCOAT is so simple.

One bale of Topcoat



TOPCOAT's convenient one-bag system makes mixing a snap. It's applied with regular hydroseeding equipment. With TOPCOAT there's no mixing time - and no waiting to spray. It takes only about 20 minutes from start of mix to final cover for the working face of an average - sized landfill - and TOPCOAT is fully effective as soon as it's applied!

WHY USE TOPCOAT®

The ASTM International's standard guide for evaluation and selection of alternative daily covers for sanitary landfills (ASTM D 6523-00), assists in the understanding of performance features to determine the extent and degree to which different ADC's are able to "control disease vectors, fires, odors, blowing litter, and scavenging, without presenting a threat to human health and the environment" as intended by United States Environmental Protection Agency regulations.

DISEASE VECTOR AND SCAVENGING CONTROL: Topcoat® is proven to discourage insects and birds from landing on, and animals from digging through the applied cover.

FIRE CONTROL: Topcoat is not a fire potential as tested in accordance with ASTM D 4982.

ODOR AND AIR EMISSION CONTROL: Topcoat® creates an effective barrier against odors and other emissions as tested using ASTM E 96, which correlates the movement of water vapors to the movement of odor through the ADC layers.

DUST AND BLOWING LITTER CONTROL: Topcoat® suppresses dust and readily adheres to blowing litter.

WATER INFILTRATION CONTROL: Topcoat® effectively sheds rainwater to help reduce infiltration into the waste materials, thereby helping to reduce leachate generation.

HUMAN HEALTH AND THE ENVIRONMENT: Topcoat® is non-toxic and biodegradable. No other ADC on the market provides the benefits for it's use as Topcoat®.

COVERAGE AND ECONOMIC CONSIDERATIONS: There are a number of factors that influence the actual coverage requirements for any ADC, and the resulting application cost per square foot for any particular landfill location. These include the type of waste materials, compaction, moisture content, weather conditions, local regulatory requirements and environmental issues of local concern. Topcoat® is the least expensive and most effective means of meeting the stringent government landfill daily regulations set forth by the Environmental Protection Agency, the applicable state DNR regulations, and/or the immediate requirements of the landfill.

TOPCOAT®

DAILY LANDFILL COVER



Just a thin layer of Topcoat meets government regulations and can save 20% or more of your landfill space



Before TOPCOAT



After TOPCOAT

No other cover is more effective than TOPCOAT for your landfill.

Sprayed as a slurry, TOPCOAT forms a blanket to control disease vectors, fires, odors, blowing litter, scavenging and erosion. It can be applied to solid waste landfills, ash fills and landfill mines, and has been proven effective in independent laboratory testing.

TOPCOAT makes sense for our environment, too.

TOPCOAT's primary ingredient is post-consumer scrap paper...paper that would otherwise further deplete valuable landfill space. TOPCOAT is non-toxic and biodegradable.



Soil vs. Topcoat

In three months, at six inches per day, you've piled

33 feet of dirt on top of the refuse in your landfill.

By switching to TOPCOAT, you'd only be adding about

33 inches of material.



TOPCOAT

DIRT

TOPCOAT®
DAILY LANDFILL COVER

**"...sprays easily through the machine.
...significantly cheaper than other products or methods."**

Ohio County Official

**"...the birds don't like to land on Topcoat.
...labor savings...more economical...easier to mix."**

Midwest Landfill Manager

**"...good coverage
...easy to apply."**

Iowa Landfill Manager

About Central Fiber Corporation

Central Fiber is committed to the development and production of superior products that are made from recycled paper and other reclaimed materials. In addition to making quality products, Central Fiber's customer service is unparalleled in the industry.



1-800-654-6117

4814 Fiber Lane Road • Wellsville, KS 66092
Phone: (785) 883-4600 • Fax: (785) 883-4429
1525 Waynesburg Drive SE • Canton, OH 44707
Phone: (330) 452-2630 • Fax: (330) 452-2644
www.centralfiber.com

Material Safety Data Sheet – MSDS

| | |
|-----------------------|-----------|
| Product Name: | Topcoat |
| Revision Date: | 3/22/2011 |

1. Product Identification

| | | | | | | | | | |
|---------------------|---|--------------|---|---------------------|---|--------|---|------------|---|
| Product | Alternative Daily Landfill Cover | | | | | | | | |
| Trade Name | Topcoat | | | | | | | | |
| CAS# | 9004-34-6 | | | | | | | | |
| ACGIH TVL | 5 mg/m3 (respirable) | | | | | | | | |
| OSHA | 15 mppcf | | | | | | | | |
| HMIS Rating: | <table> <tr> <td>Flammability</td> <td>1</td> </tr> <tr> <td>Personal Protection</td> <td>E</td> </tr> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table> | Flammability | 1 | Personal Protection | E | Health | 1 | Reactivity | 0 |
| Flammability | 1 | | | | | | | | |
| Personal Protection | E | | | | | | | | |
| Health | 1 | | | | | | | | |
| Reactivity | 0 | | | | | | | | |
| Filler | Proprietary | | | | | | | | |

2. Hazardous Ingredients

Cellulosic based Fibers are considered a Nuisance Dust and should be controlled as described in Section VIII herein. Not listed as carcinogen or potential; no National Toxicology Program, IARC or OSHA involvement currently recorded.

3. Physical Properties

| | |
|-------------------------------|---|
| Boiling Point (F) | Not Applicable |
| Vapor Pressure (mm Hg) | Not Applicable |
| Vapor Density | Not Applicable |
| Solubility in Water | Insoluble, Dispersible |
| Bulk Density | 22 lb/ft3 |
| Reactivity in Water | Dispersible |
| Melting Point | Not Applicable |
| Appearance & Odor | Coarse material, brown in color. No discernible odor. |

4. Fire & Explosion Data

| | |
|---|----------------|
| Flash Point | >200C |
| Flammability Limits: | |
| LEL | Not Applicable |
| UEL | Not Applicable |
| Extinguishing Media | Water |
| Special Fire Fighting Procedures | None |
| Unusual Fire & Explosion Hazards | None |

Material Safety Data Sheet – MSDS

| | |
|-----------------------|-----------|
| Product Name: | Topcoat |
| Revision Date: | 3/22/2011 |

5. Reactivity

| | |
|---------------------------------|--|
| Stability | Stable |
| Conditions to Avoid | Avoid extreme heat & flame |
| Hazardous Decomposition | May produce carbon monoxide & carbon dioxide |
| Hazardous Polymerization | Will not occur |

6. Health Hazards

**Material is primarily a Nuisance Dust
Overexposure**

May cause irritation to eye & respiratory system. Avoid breathing dust.

Inhalation

Can cause irritation to mucous membrane & upper respiratory system. Remove to fresh air.

Ingestion

May cause vomiting or diarrhea.

Eyes

In case of eye contact flush with copious amount of water

Skin

In case of broken skin, wear gloves. Wash dust with soap & water.

7. Special Precautions Spill/Leak Procedures

Spill

Sweep up excess material

Disposal

In accordance with Federal, State & local refuse regulations

8. Special Protection Control Measures

Respiratory Protection

Use NIOSH approved respiratory masks

Eye Protection

Use goggles or eye glasses

Hand Protection

If sensitive, wear gloves

Other Protective Clothing

None

Ventilation

Normal & ventilation

Work/Hygiene

Practices standard hygiene

Information presented herein has been compiled from sources considered dependable and is accurate and reliable to the best of our knowledge and belief, but it is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any patents or in violation of any laws or regulations. It is the user's responsibility to determine the suitability of any material for a specific purpose and adopt necessary safety precautions. We make no warranty as to results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.

**ATTACHMENT II.2.H
2014 ANNUAL REPORT
(FORMS ONLY)**

I. 2014 General Information Form

Facility Information January 1-December 31, 2014

Permit/Registration # SWM-050304

County: Sandoval Check One: ☒ Open Facility ☐ Closed Facility
Facility Name Sandoval County Landfill, Composting & Recycling Facility Phone 505-867-0814
 Contact Person Robert (Bert) Sanchez E-Mail Address gov
 Facility Mailing Address 2708 Iris RD, NE
 City: Rio Rancho State: NM Zip Code: 87144
 Physical Location of Facility (City/County Road) 2708 Iris RD, NE

Facility Operator Sandoval County Landfill, Composting & Recycling Phone 505-867-0814
 Contact Person Robert (Bert) Sanchez E-mail Address gov
 Mailing Address 2708 Iris RD, NE
 City Rio Rancho State: NM Zip Code: 87114

Facility Owner Sandoval County Phone 505-771-8500
 Contact Person Tommy Mora Jr., Director of Public Works E-mail Address Tmora@sandovalcountynm.gov
 Mailing Address 2708 Iris RD, NE
 City Rio Rancho State: NM Zip Code: 87144

Land Owner Sandoval County Phone 505-867-7538
 Contact Person Phillip Rios, County Manager E-mail Address Prios @sandovalcountynm.gov
 Mailing Address 1500 Idela RD
 City Bernalillo State: NM Zip Code: 87004

Financial Assurance

- ☒ Check One Box
☒ Updated Financial Assurance Attached
☐ Financial Assurance required but not Attached (Explain on Comment Sheet)
☐ Financial Assurance not required (Explain on Comment Sheet)

Questions?
Call 505-771-5982

Landfills Only

Check One: ☒ Open Landfill ☐ Closed Landfill

Capacity Information for Open Landfills (If not provided- explain on Comment Sheet)

Provide Landfill Capacity **Used** during 2014 7,099,059 (Cubic Yards)
 Provide **Remaining** Landfill Capacity 6,062,564 (Cubic Yards) (See V. Capacity Worksheet .)
 Provide **Remaining** Landfill Life 11.3 (Years) (See V. Capacity Worksheet .)
 Number of acres at current site, not permitted, that could be used for disposal in the future 32
 Were there any changes in operations that reduced the active life of the landfill by 25% or more?
☒ No ☐ Yes (Attach Notification)

Monitoring Results for Open Landfills (and Closed Landfill in Post-Closure Care)

- ☐ No ☒ Yes Summary of Landfill Gas Monitoring Results Enclosed (if not explain on Comment Sheet)
☐ No ☒ Yes Summary of Landfill Ground Water Monitoring Results Enclosed (if not explain on Comment Sheet)
☐ No ☒ Yes Summary of Leachate Generated & Treated or Disposed Enclosed (if not explain on Comment Sheet)

Closure and Post-Closure Activity

Total Acreage Used for Disposal (as of 12/31/14) Date of Closure (Acres)
 Intermediate Cover (Acres) Area Seeded (Acres)
 Total Acreage with Final Cover Installed (per Closure Plan) (Acres)

II. 2014 Material and Solid Waste Management Form

| | | | | | | | | | | | |
|--|--|--|--|-------------------------------------|--|--|--|---|--|--|--|
| Facility Name: Sandoval County Landfill, Composting & Recycling Facility | | | | | | PRINT Name, Title and Telephone # of the Person Completing Form: Robert(Bert) Sanchez, Solid Waste Manager 505-867-0814 | | | | | |
| County: Sandoval | | | | Permit or Registration # SWM-050304 | | | | Facility Type: <input checked="" type="checkbox"/> Landfill <input checked="" type="checkbox"/> Recycling <input checked="" type="checkbox"/> Composting <input type="checkbox"/> Transfer/Convenience Center | | | |

| Material Type (See Instructions) | | Method | | Waste Origin | | Managed On-Site: | | | Sent Off-Site to be: | | | Sent to: |
|-------------------------------------|------------------------------------|--|-----------|--|--|------------------|----------|-----------------------|----------------------|-------------------|--------------------------------|--|
| | | <input checked="" type="checkbox"/> Mark One | | Amount of In-State Material Received in Tons | Amount Out-of-State Materials Received in Tons | (c) | (d) | (e) | (f) | (g) | (h) | (i) |
| | | Weighed | Estimated | | | | | | | | | |
| | | | | | | (a) | (b) | Landfilled or Treated | Composted or Mulched | Beneficially Used | Treated, Disposed, Incinerated | Recycled, Mulched, Composted |
| 1 | MSW | X | | 34,374.84 | | 34,374.84 | | | | | | |
| 2 | C & D | X | | 77,827.86 | | 77,827.86 | | | | | | |
| 3 | Clean Fill | X | | 6,480.82 | | 6,480.82 | | 10.25 | | | | Shredded concrete and asphalt on haul roads , and clean dirt for cover |
| Special Wastes: | | | | | | | | | | | | |
| 4 | Industrial Waste | | | | | | | | | | | |
| 5 | Regulated Asbestos | | | | | | | | | | | |
| 6 | Infectious Waste | | | | | | | | | | | |
| 7 | Ash | | | | | | | | | | | |
| 8 | PCS | | | | | | | | | | | |
| 9 | Offal | | | | | | | | | | | |
| 10 | Bio-Solids (Treated Sewage Sludge) | | | | | | | | | | | |
| 11 | Other Sludges | | | | | | | | | | | |
| 12 | Other Special Waste | | | | | | | | | | | |
| Other Materials: | | | | | | | | | | | | |
| 13 | Brush/Green Waste | X | | 5,742.25 | | | 4,242.25 | | | | 515.48 | Chipped GW and used a ADC LF, compost & mulch sold to public & in kind |
| 14 | Scrap Tires | X | | 20.07 | | | | | 20.07 | | | Sent to Rio Rancho Landfill via Waste Management roll off truck. |
| 15 | Motor Oil | | | | | | | | | | | |
| 16 | Antifreeze | | | | | | | | | | | |
| 17 | Lead Acid Batteries | | | | | | | | | | | |
| 18 | HHW | | | | | | | | | | | |
| 19 | Other Wastes | | | | | | | | | | | |
| 20 | TOTAL TONS | | | 124,445.84 | | 118,683.52 | 4,242.25 | 10.25 | 20.07 | | 515.48 | |

III. 2014 Recyclable Materials Form

| | | | | | | | | | |
|---|--|--|--|---|--|--|--|--|--|
| Facility Name: Sandoval County Landfill, Composting & Recycling Facility | | | | | | PRINT Name, Title & Telephone # of Person Completing Form: Robert (Bert) Sanchez, Solid Waster Manager, 505-867-0814 | | | |
| County: Sandoval | | Permit or Registration # SWM-050304 | | Facility Type: <input checked="" type="checkbox"/> Landfill <input checked="" type="checkbox"/> Recycling <input checked="" type="checkbox"/> Composting <input type="checkbox"/> Transfer/Convenience Center | | | | | |

| Type of Recyclable | Method | | Material Origin | | Managed On-Site: | Sent Off-Site to be: | | Facility sent to: | | | | | |
|-------------------------|--|---|---|---|------------------|----------------------|--------|-------------------|---|-----|------------------------------|-----------------------|-------------------|
| | <input checked="" type="checkbox"/> Mark One | | Amount of In-State Materials Received in Tons | Amount of Out-of-State Materials Received in Tons | | (c) | (d) | | (e) | (f) | | | |
| | | | | | Weighed | | | Estimated | | | Beneficially Used or Re-used | Recycled or Processed | Beneficially Used |
| | | | | | | | | | | | | | |
| Paper: | | | | | | | | | | | | | |
| 1 | Mixed Paper | X | | 3.28 | | | 3.28 | | Master Fibers,Albuquerque, New Mexico | | | | |
| 2 | Cardboard (OCC) | X | | 60.19 | | | 60.19 | | Master Fibers,Albuquerque, New Mexico | | | | |
| 3 | Newspaper (ONP) | X | | 18.70 | | | 18.70 | | Master Fibers,Albuquerque, New Mexico | | | | |
| 4 | Office Paper | X | | 7.69 | | | 7.69 | | Master Fibers,Albuquerque, New Mexico | | | | |
| 5 | Phone Books | | | | | | | | | | | | |
| 6 | Chip Board | | | | | | | | | | | | |
| Containers: | | | | | | | | | | | | | |
| 7 | Plastics | x | | 2.48 | | | 2.48 | | Master Fibers,Albuquerque, New Mexico | | | | |
| 8 | Aluminum | X | | 0.20 | | | 0.20 | | Rio Rancho Recycling 110 Frontage Rd, Rio Rancho NM 87124 | | | | |
| 9 | Steel Cans | X | | 0.16 | | | 0.16 | | Rio Rancho Recycling 110 Frontage Rd, Rio Rancho NM 87124 | | | | |
| 10 | Glass | | | | | | | | | | | | |
| 11 | Mixed Containers | | | | | | | | | | | | |
| Other Materials: | | | | | | | | | | | | | |
| 12 | Scrap Metals/ White Goods | X | | 209.93 | | | 209.93 | | Rio Rancho Recycling in Rio Rancho, NMCommunity Bikes in Alb. NM and Alpha Appliances in Alb. NM. All Atate Builders, | | | | |
| 13 | Carpet Padding | | | | | | | | | | | | |
| 14 | Pallets | | | | | | | | | | | | |
| 15 | Electronic Scrap | X | | 101.21 | | | 101.21 | | Electronic Recyclers international Aura Co. | | | | |
| 16 | Plastic Films | | | | | | | | | | | | |
| 17 | Other Plastics | | | | | | | | | | | | |
| 18 | Household Items | | | | | | | | | | | | |
| 19 | Textiles/Clothing | X | | 0.74 | | | 0.74 | | St Felix Pantry, Albuquerque, NM | | | | |
| 20 | Other or Commingled Materials | X | | 99.52 | | | 99.52 | | Better World Books,Mishawakd, Ind, Mattress sent to Alpha Appliances, 2021 Barcelona SW Alb. NM 87105 | | | | |
| 21 | TOTAL | | | 504.10 | | | 504.10 | | | | | | |

Questions?
 Call 505-771-5982

IV. 2014 Additional Comments Form

| |
|--|
| Name of Facility: <u>Sandoval County Landfill, Composting & Recycling Facility</u> |
| Name of Person completing form: <u>Robert (Bert) Sanchez, Solidw Waste Manager</u> |

| |
|--|
| Names of Certified Operators at Facility: |
| Robert M Sanchez, Solid Waste Manager, Sandoval County |
| Michael F Anderson, Landfill Supervisor, Sandoval County |
| Christopher Perea, Landfill Foremaen, Sandoval County |
| Tommy, Mora Jr, Director of Public, Sandoval County |

| | |
|--|---|
| Average <u>Landfill</u> Tipping Fees: MSW: \$24.00 per ton county \$25.00 non Cout. Tires: Special Waste: Cont. Soil \$34.00 per ton | Average <u>Transfer Station</u> Tipping Fees: MSW: \$4.75 per pick-up size load. \$0.50 per bag Tires: |
|--|---|

| | | | |
|---|--|---|--|
| To Be Completed by Facilities Accepting and <u>Storing</u> Tires: | | | |
| Number of tires stored onsite at the <u>beginning</u> of calendar year (<i>January 1, 2014</i>): | | Number of tires stored onsite at the <u>end</u> of calendar year (<i>December 31, 2014</i>): | |
| Passenger Tires: | | Passenger Tires: | |
| Truck Tires: | | Truck Tires: | |
| Tire Bales: | | Bales: | |

| |
|--|
| Financial Assurance not enclosed because: |
| |
| |
| |

| |
|---|
| General Comments: |
| Of the green waste 1,500 tons remain to be chipped for feed stock for composting and use as ADC at the working face at times during bad weather for better traction at the work face. |
| 10.25 tons of Contrete/Asphalt has been shredded and used as base course by the Road Department and asphalt that has bee shredded used on a portion of the landfill haul road. |
| Books, were picked up by Better World books of IN, Coathing was sent to St Felix , in Alb. And Mattress were sent to Alpha Appliance to be recycled for the scrap metal(Springs and bed frames).All State Builders takes the Lawnmoers |

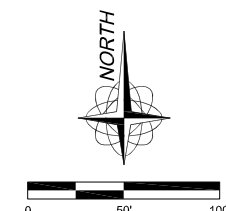
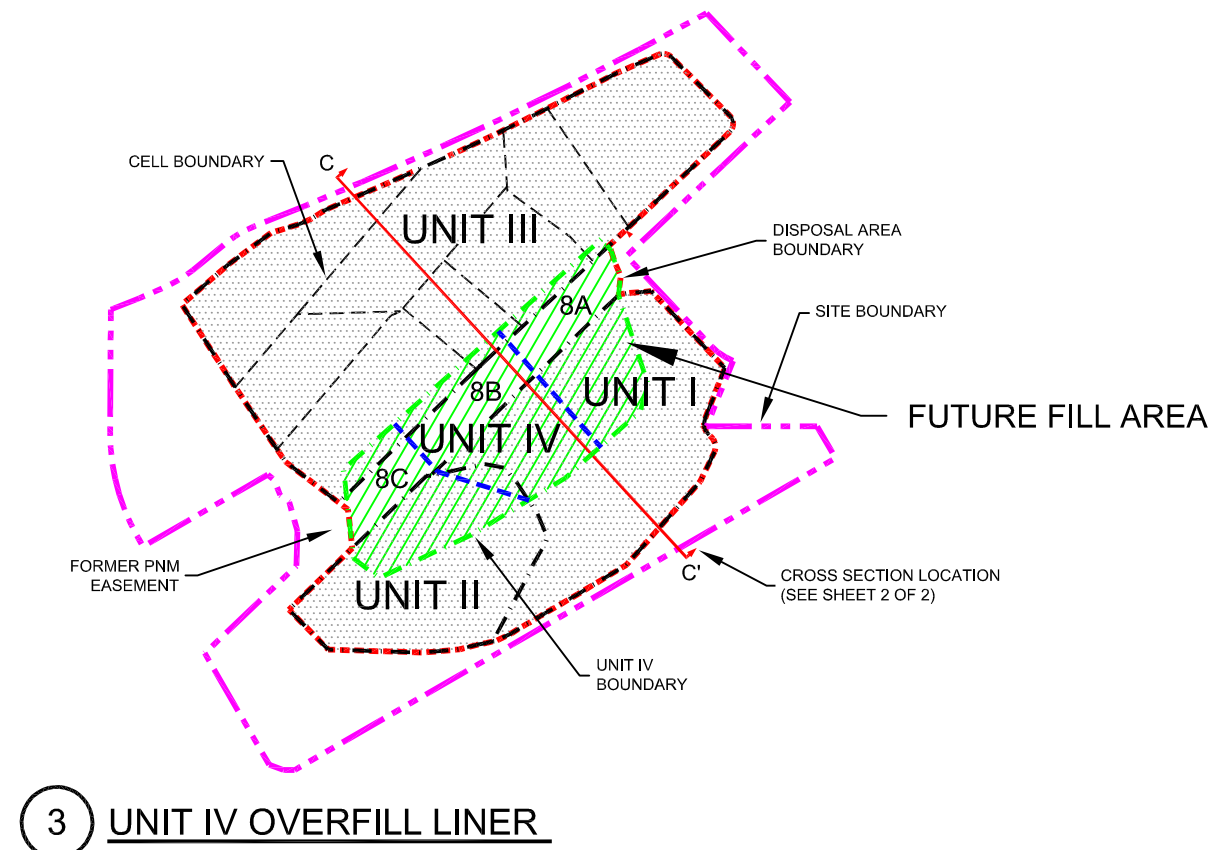
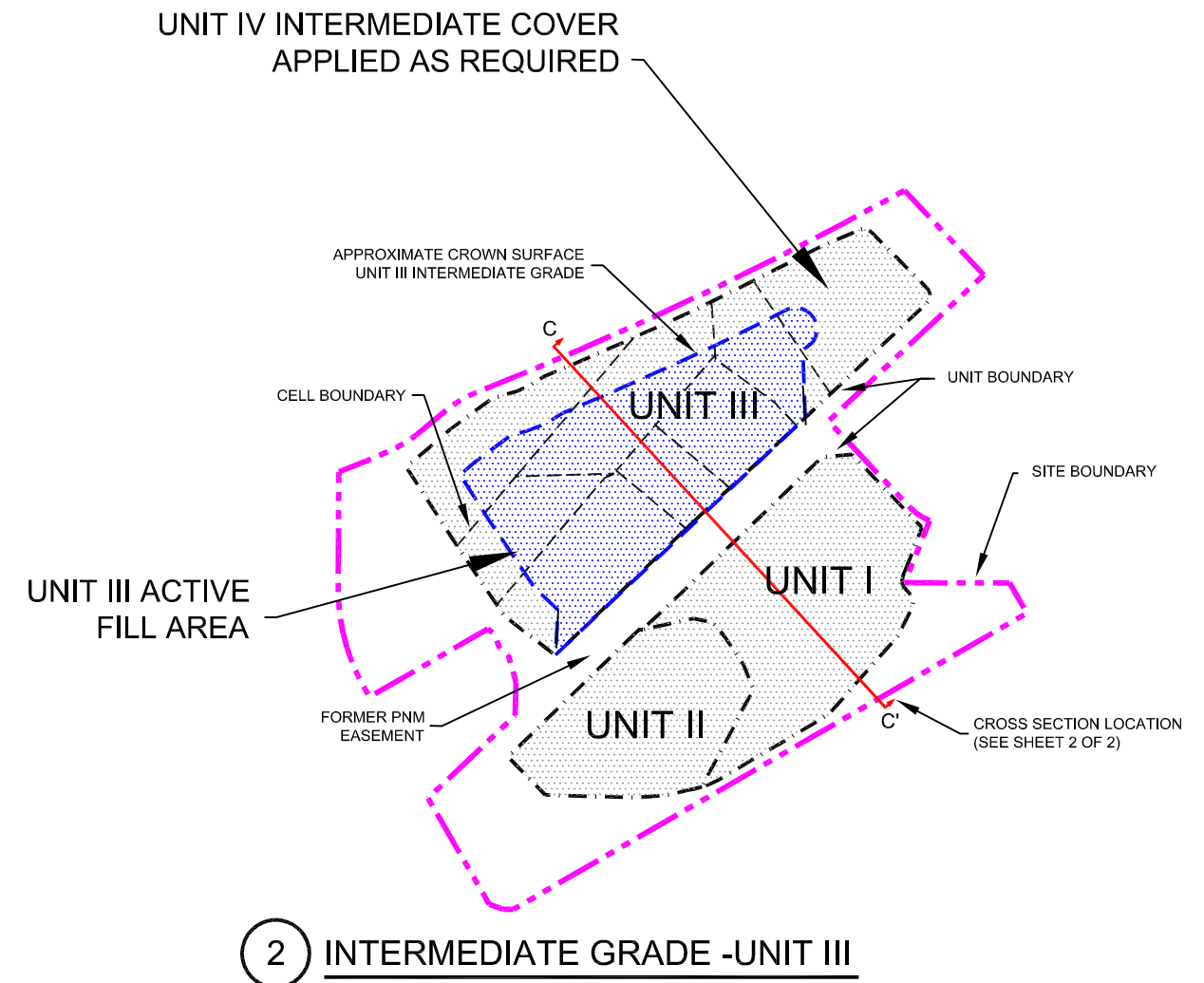
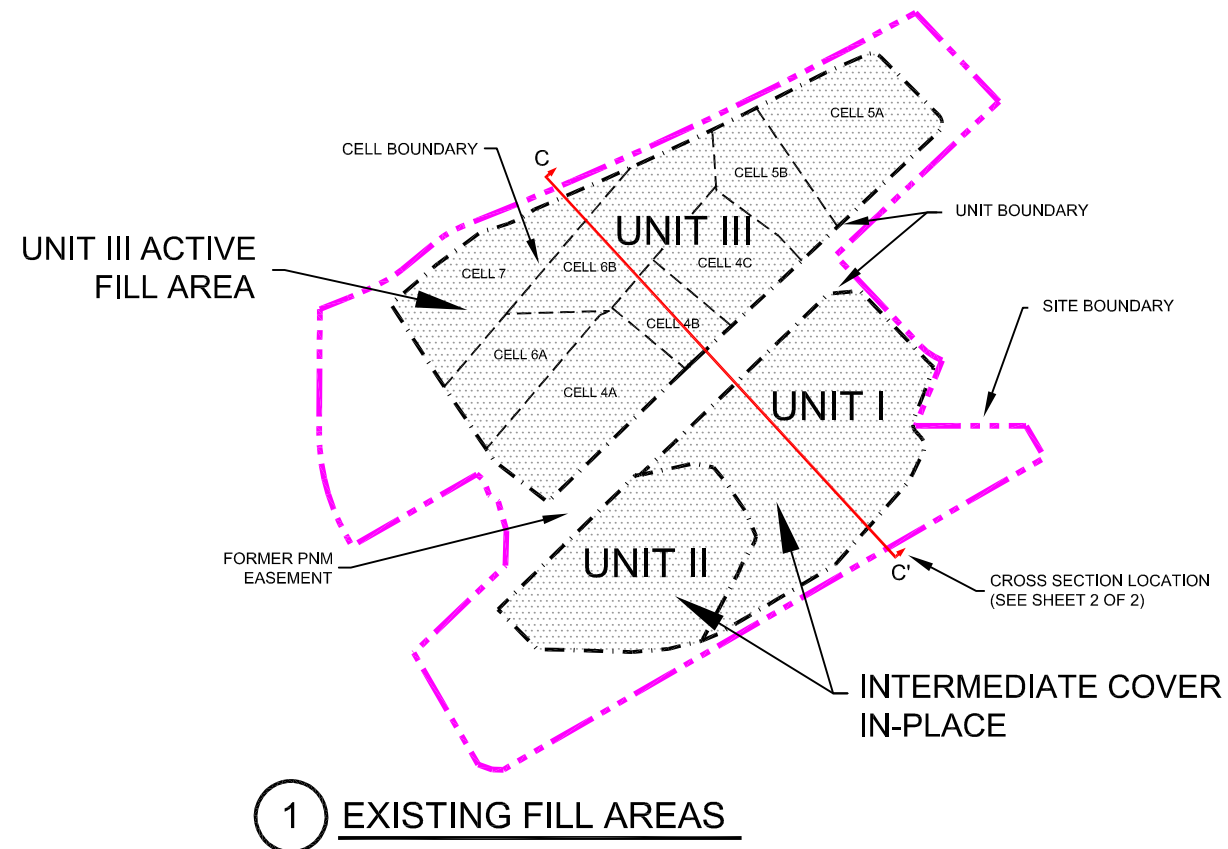
| |
|--|
| Landfill Information Only: |
| Gas Monitoring Results not enclosed because: |
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| |
|---|
| Ground Water Monitoring Results not enclosed because: |
| |
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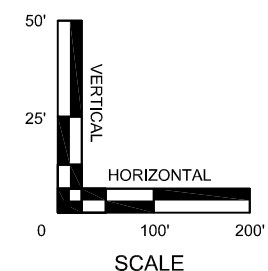
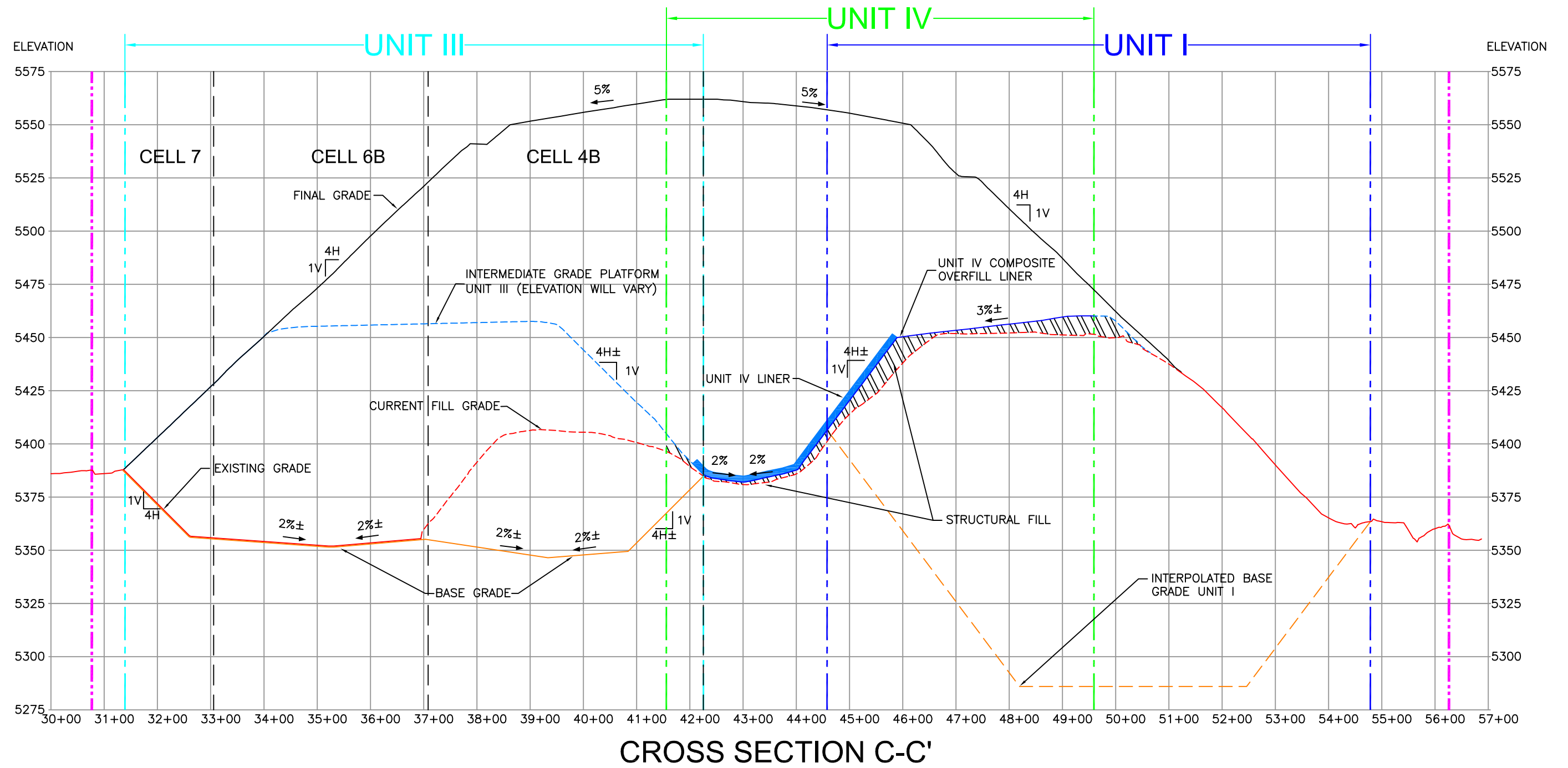
| |
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| Leachate Generation Report not enclosed because: |
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| |
|--|
| Capacity Information not provided because: |
| |
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| |

**ATTACHMENT II.2.I
SITE SEQUENCING**



| SITE SEQUENCING PLAN VIEW SHEET 1 OF 2 SANDOVAL COUNTY LANDFILL RIO RANCHO, NEW MEXICO | | |
|--|-----------------------------|---|
|  Gordon Environmental, Inc. <i>Consulting Engineers</i> | | 213 S. Camino del Pueblo Bernalillo, New Mexico, USA Phone: 505-867-6990 Fax: 505-867-6991 |
| DATE: 01/25/2016 | CAD: SITE SEQUENCE.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: GEI | ATTACHMENT II.2.I |
| APPROVED BY: IKG | gei@gordonenvironmental.com | |



| SITE SEQUENCING CROSS-SECTION SHEET 2 OF 2 | | |
|---|-----------------------------|----------------------|
| SANDOVAL COUNTY LANDFILL RIO RANCHO, NEW MEXICO | | |
|  Gordon Environmental, Inc. Consulting Engineers | | |
| DATE: 01/18/2016 | CAD: 13X-SEC.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: MRH | ATTACHMENT II.2.I |
| APPROVED BY: IKG | gei@gordonenvironmental.com | |

**ATTACHMENT II.2.J
EDGE OF LINER AND SIDESLOPE INSPECTION FORM**

ATTACHMENT II.2.J - Routine Inspection Form, including Edge of Liner and Sideslope Conditions

Date: _____

Inspector(s): _____

Weather: Temperature: _____ °F
Skies: _____
Precipitation: _____ inches (last 24 hours)

| Sideslope Inspection | | | | | | | | | | | Edge of Liner Inspection | |
|----------------------|----------|---------------|---------------|--------|---------|---------|------------|----------|---------|--------------|--------------------------|---------------------|
| Location* | LFG Odor | Leachate Seep | Exposed Waste | Cracks | Ponding | Erosion | Vegetation | | Vectors | Sample (Y/N) | Describe: | |
| | | | | | | | Stress | Taproots | | | Toe of Slope | Condition of Marker |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. *Items are referenced by Location; as marked on the attached Site Plan.

Field Notes: _____

Corrective Action Required: _____

Corrective Action Completed: _____

Signature

Date

Note: NMED requires quarterly inspections and submittal of this inspection form to NMED no later than 30 days after inspection. A copy of the inspection record shall also be maintained in the Facility Operating Record.

**ATTACHMENT II.2.K
TRAINING RECORD**

ATTACHMENT II.2.K - Training Record

Date: _____

Training Provided By: _____

Topic: _____

Signature: _____

| Staff Trained | Staff Position | Items Discussed |
|---------------|----------------|-----------------|
| Print: | | |
| Signature: | | |
| Print: | | |
| Signature: | | |
| Print: | | |
| Signature: | | |
| Print: | | |
| Signature: | | |
| Print: | | |
| Signature: | | |
| Print: | | |
| Signature: | | |
| Print: | | |
| Signature: | | |

Notes: 1. Training records must be maintained as part of the Facility Operating Record.
 2. Use one sheet per training event.

**ATTACHMENT II.2.L
ALTERNATIVE STABILIZATION OPTIONS FOR
INTERMEDIATE AND FINAL COVER**

ATTACHMENT II.2.L - Alternative Stabilization Options for Intermediate and Final Cover

As recommended by the New Mexico Environment Department (NMED) Solid Waste Bureau (SWB), Sandoval County proposes the use of sustainable alternative stabilization materials and methods as may be needed where vegetation cannot be adequately established as required for both intermediate and final cover.

Intermediate Cover Stabilization

The County plans to implement the use of alternative methods of cover stabilization for areas of intermediate cover which have been inactive for greater than two years and have not been adequately stabilized with vegetation. The use of alternative stabilization methods for intermediate cover is allowed in accordance with 20.9.5.9.O(3) NMAC.

Final Cover Stabilization

In addition, for areas that will receive final cover, the County plans to implement these methods for the vegetative (erosion) layer where vegetation has not been adequately established. Final cover is required to include a layer for minimizing erosion which is a minimum of six inches thick and capable of sustaining native plant growth (20.9.6.9.A(1)(c) NMAC). An alternative erosion layer is allowed in accordance with 20.9.6.9.A(2)(b) NMAC, but it must provide equivalent protection from both wind and water erosion.

Alternative Stabilization Materials and Methods

For those areas that have not been successfully stabilized with vegetation as required for intermediate or final cover, SCLF will implement the use of one or more alternative stabilization options. SCLF may submit an evaluation plan to the SWB to create test plot areas to evaluate alternative stabilization materials and methods such as (e.g., RAID-funded ET research):

- Compost
- Ongoing evaluation of organics
- Wood chips
- Shredded green waste
- Mixtures (e.g., compost, wood chips, soil)
- Gravel/rock (to simulate desert pavement)
- Inert fill
- Bermed materials
- Vertical tracking of slopes

Materials such as compost, wood chips, shredded green waste, mixtures of organic materials, gravel, etc. may be applied at depths determined to be effective based on pilot study evaluations and experience. Berms comprised of organic or crushed inert materials may be constructed perpendicular to the intermediate or final cover slopes to aid in the mitigation of wind and water erosion. In addition, vertical tracking of slopes with a dozer to allow the dozer's track segment grouser pattern to imprint the soil and slow the progress of water and wind erosion may also be implemented.

The County operates a Doppstadt™ crusher/shredder which is used on-site for crushing recycled concrete and asphalt, etc. The crusher can also be used for size reduction of green waste and woody construction and demolition (C&D) debris to supplement the chipper. These crushed materials may be used beneficially for alternative stabilization. In addition, compost is produced at SCLF using a state-of-the-art aerobic, in-vessel treatment process. Details regarding the proposed evaluation of organic materials for final cover are detailed below.

Evaluation of Organic Materials for Final Cover at SCLF (RAID Grant)

Sandoval County received a RAID Grant to evaluate innovative solutions and partnerships for the diversion of organic materials to develop a market for the use of organic products for erosion control and landscape projects. The County is implementing this project as a creative solution to utilize hard-to-manage materials beneficially, by evaluating and documenting the function of an organic alternative cover system that relies on evapotranspiration (i.e., organic ET cover system).

The project goal is to provide an ongoing demand for organic materials utilized in an ET cover system designed with equivalent or greater performance than the conventional cover systems currently required and deployed in New Mexico. The tasks undertaken to accomplish this goal will require the County, with support from their Consultants, to design an organic ET cover system that relies on the use of compost and wood chips for armoring and erosion control; in conjunction with an evaporation (infiltration) layer that precludes liquids from passing through the cover and into the waste below.

This effort is designed to verify that the organic ET cover system design and performance through site specific, field scale testing. This research will utilize field-scale lysimeters (with proposed dimensions of 30 x 30-feet), coupled with in-situ soil instrumentation to document the system performance. The proposed cover system will employ a 6-inch organic erosion layer in place of the currently approved vegetation layer in the current ET Final Cover design. The organic layer is designed to biodegrade over time providing a nutrient rich zone for the establishment of soil that will retain moisture and encourage the initial growth of fungus as the initial step in the development of a soil capable of sustaining vegetation. This is a demonstration project to provide documentation of the viability of the proposed final cover system.

Inspection, Repair, and Maintenance

Areas that have intermediate cover will be inspected at least once per month and after significant rain events as described in the Plan of Operations (Volume II.2, Section 5.15). Final cover inspection will be conducted at least semi-annually during the post-closure phase as detailed in the Closure/Post-Closure Plan, Section 3.1. Quarterly sideslope inspections will also be conducted and documented as detailed in the Plan of Operations (Volume II.2, Section 5.16).

Approval for Alternative Stabilization Methods

Alternative stabilization methods may be implemented upon approval from the NMED SWB and by “specific approval” from the Secretary.

**ATTACHMENT II.2.M
UPDATED LITTER MANAGEMENT AND
CONTROL PLAN (02/2017)**

ATTACHMENT II.2.M
UPDATED LITTER MANAGEMENT AND CONTROL PLAN (02/2017)
SANDOVAL COUNTY LANDFILL

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ATTACHMENT II.2.M
UPDATED LITTER MANAGEMENT AND CONTROL PLAN (02/2017)
SANDOVAL COUNTY LANDFILL

1.0 INTRODUCTION

This updated Litter Management and Control Plan has been prepared consistent with the requirements of the Sandoval County Landfill (SCLF) Final Order (09/27/2016), Permit Condition No. 9 and Sandoval County's meeting with Gordon Environmental/PSC and the New Mexico Environment Department (NMED) Solid Waste Bureau (SWB) on 12/08/2016 to discuss the current SCLF *Litter Management and Exposed Waste Control Plan*.

1.1 Litter Management and Control Plan

Blowing litter is controlled by a number of both preventive and maintenance techniques at SCLF. The design of the Convenience Center requires wastes to be handled at or below grade, thereby limiting the potential for litter generation. The fence surrounding the property also serves to control litter downwind of the active area, as fill operations progress to a higher elevation. In addition, the site deploys portable litter fences, other perimeter fencing, and berms at strategic locations. The entire perimeter of SCLF is enclosed by a 6-foot chain link fence topped with 3-strand barbed wire.

When the fill operation is conducted as designed, below the adjacent ground or fill level, the sidewalls and natural topography function as windbreaks. For instance, Unit IV is surrounded by the sideslopes of Unit I, II, and II on both longitudinal sides. Wastes that are readily windblown are covered immediately after disposal at the fill face to prevent them from becoming airborne. Additional preventive litter control techniques include confining the working face to the smallest practical area; consolidating waste with repeated passes of specialized compaction equipment; routine application of daily cover soil throughout the working day; and placement of temporary and permanent litter control fencing downwind of current fill locations.

The majority of wastes and recyclable materials are delivered in enclosed vehicles subject to NMED's litter control requirements; and litter is further minimized by enforcement of the facility's load-tarping requirement. To prevent litter from blowing from the vehicles, SCLF requires that

vehicles be properly covered or tarped. Per County Ordinance (i.e., Amended Ordinance 06-07-06.10D, **Attachment II.2.B**) the residential fee for residential vehicles in violation of the tarping requirement is \$5.00, and the fee for commercial vehicles is \$20.00. Repeat offenders may be turned away, and/or reported to the authorities.

1.2 Wind Rose

This closest location to the SCLF with historical wind data (2004-2016; Western Regional Climate Center) sufficient to generate a Wind Rose is Sandia Lakes, New Mexico (NM). A Wind Rose for Sandia Lakes, New Mexico (NM), is provided as **Figure II.2.M-1**. In addition, SCLF has an on-site weather station that has been gathering hourly weather data, including wind data, since approximately May 2016. An SCLF Wind Rose utilizing the available site data (i.e., approximately May 2016 - February 2017) is provided as **Figure II.2.M-2**. Ideally, a wind rose should include a compilation of at least one year's worth of data; and once a year's worth of wind data has been gathered at SCLF, Gordon Environmental/PSC will update SCLF Wind Rose (**Figure II.2.M-2**). In order to understand the seasonal variation in wind for the SCLF site, seasonal Wind Roses have also been generated, organized by meteorological season:

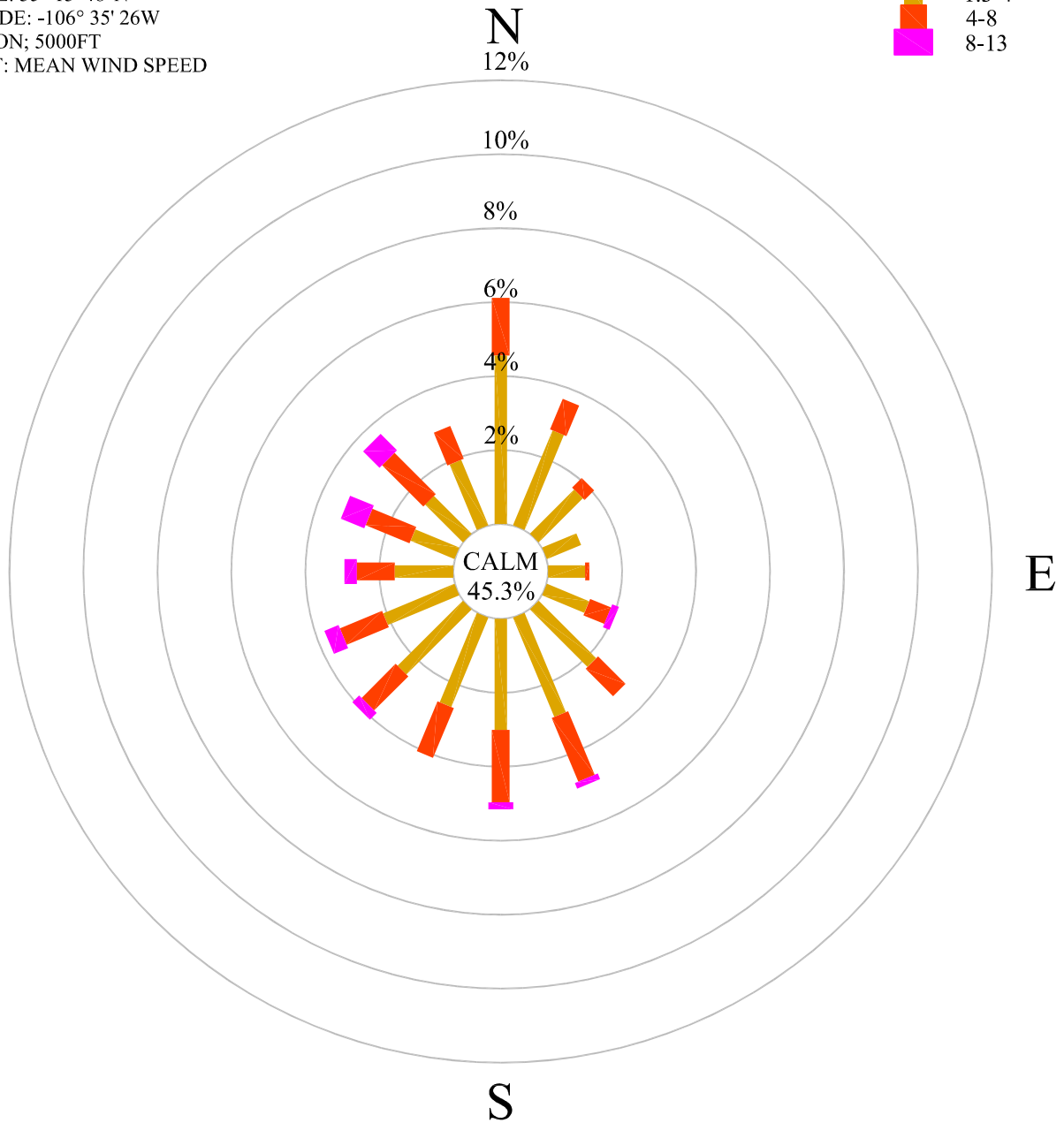
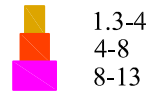
- Spring (**Figure II.2.M-3A**; March 1 – May 31)
- Summer (**Figure II.2.M-3B**; June 1 – August 31)
- Fall (**Figure II.2.M-3C**; September 1 – November 30)
- Winter (**Figure II.2.M-3D**; December 1 – February 28)

Seasonal Wind Roses based on SCLF data (as available) are provided as **Figure II.2.M-3A** through **3D**; and as additional wind data is gathered for SCLF, these Wind Roses will be added or updated. Overall wind data for the SCLF indicates that prevailing winds originate from the north, west, and south. Calms (i.e., winds less than 1.3 miles per hour; mph) are predominant less than 1% of the time. In the spring (**Figure II.2.M-3A**), prevailing winds primarily originate from the south and southwest, while summertime winds (**Figure II.2.M-3B**) primarily originate from the north/northwest and northeast, and the south/southwest. In the fall, prevailing winds are similar to summer months originating primarily from the north and south (**Figure II.2.M-3C**). In the winter, prevailing winds originate from the north, west, and south, with the strongest winds from the southwest.

SANDIA LAKES NEW MEXICO

STATION: SANDIA LAKES NEW MEXICO
 LATITUDE: 35° 13' 48"N
 LONGITUDE: -106° 35' 26W
 ELEVATION: 5000FT
 ELEMENT: MEAN WIND SPEED

MPH



START DATE: MAR. 1, 2004
 END DATE: DEC. 31, 2015
 # OF DAYS: 4323 OF 4323
 # OBS: POSS: 103225 OF 103752
 WESTERN REGIONAL CLIMATE CENTER

WIND ROSE

SANDOVAL COUNTY LANDFILL
 RIO RANCHO, NEW MEXICO



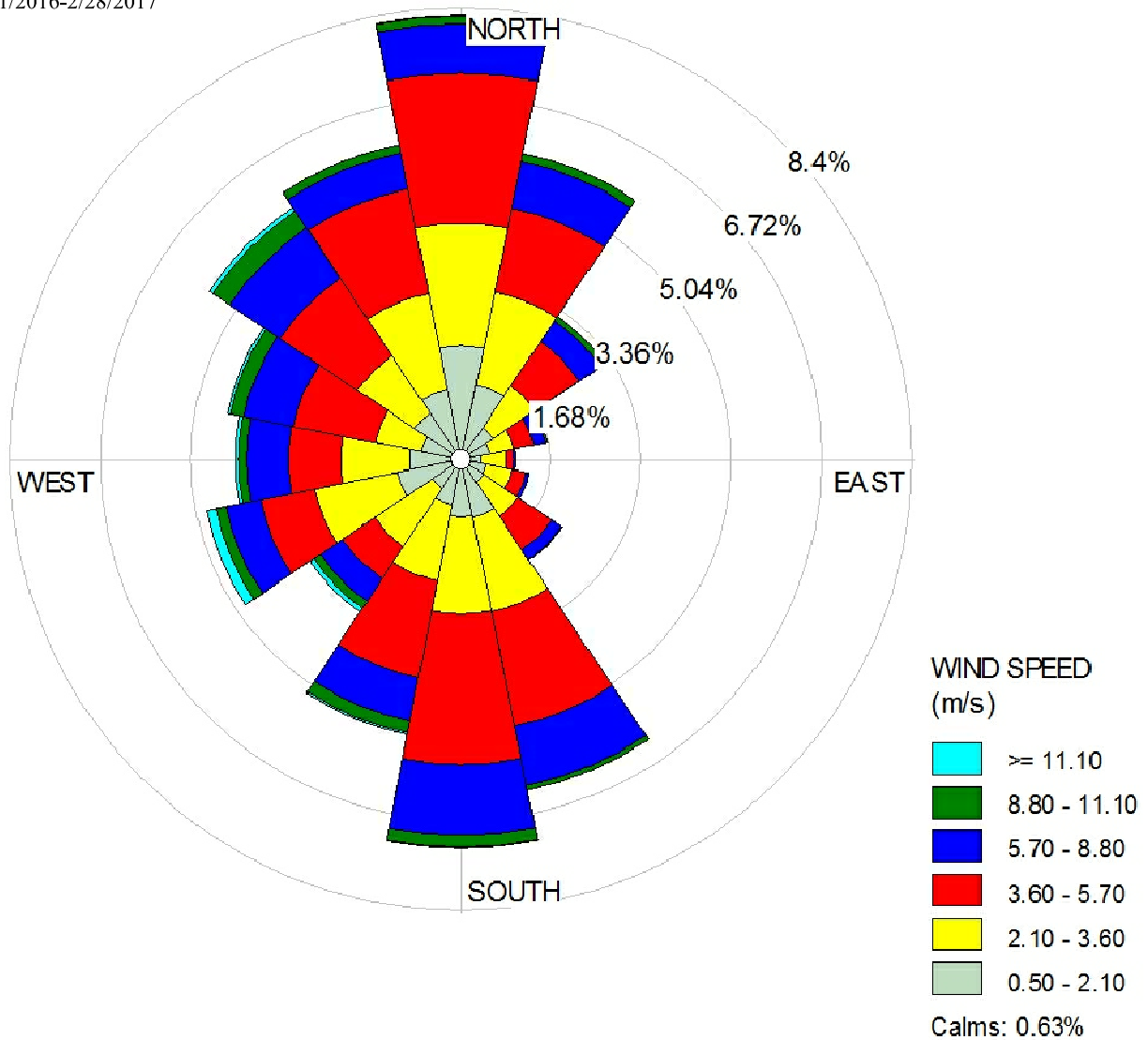
213 S. Camino del Pueblo
 Bernalillo, New Mexico, USA
 Phone: 505-867-6990
 Fax: 505-867-6991

Drawing: P:\acad 2003\211.00.01\NEW SANDOVAL WIND ROSE\UPDATED 2-15-2017 WIND ROSE.dwg
 Date/Time: Feb, 22, 2017-14:49:44 ; LAYOUT: A (P)
 Copyright © All Rights Reserved, Gordon Environmental PSC 2017.

| | | |
|------------------|----------------------|----------------------|
| DATE: 02/21/2017 | CAD: CATCH FENCE.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: DRT | |
| APPROVED BY: IKG | www.team-psc.com | FIGURE II.2.M-1 |

SANDOVAL COUNTY LANDFILL LYSIMETER WIND DATA

STATION: SANDOVAL COUNTY LANDFILL
LATITUDE: 35° 18' 27"N
LONGITUDE: -106° 37' 30"W
ELEMENT: MEAN WIND SPEED
DATA: 5/1/2016-2/28/2017



SCLF WIND ROSE

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO



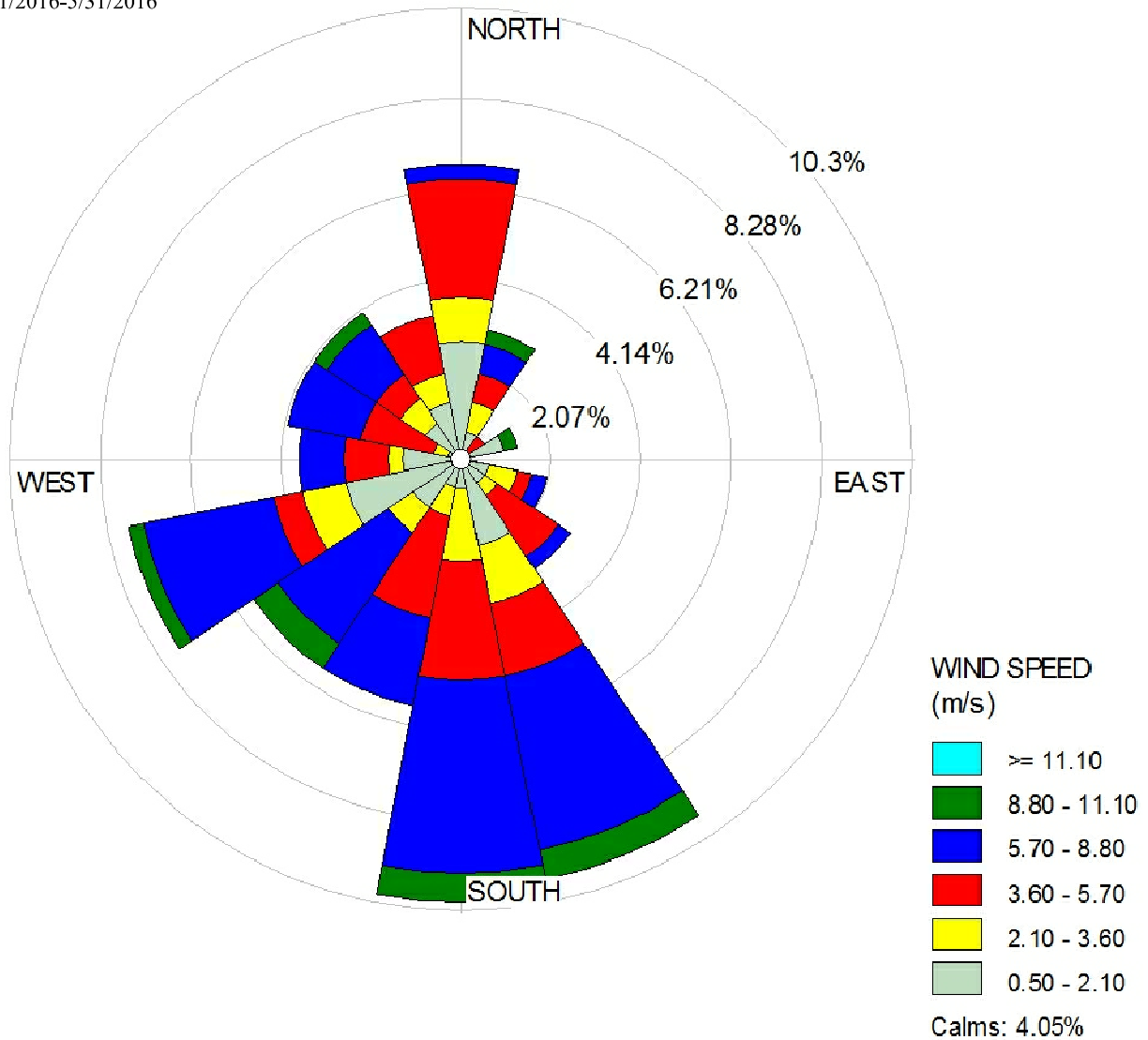
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

Drawing: P:\acad 2003\211.00.01\NEW SANDOVAL WIND ROSE\LAKE 2-15-2017 WIND ROSE.dwg
Date/Time: Feb, 22, 2017-14:39:29 ; LAYOUT: A (P)
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| DRAWN BY: DMI | REVIEWED BY: DRT | |
| APPROVED BY: IKG | www.team-psc.com | FIGURE II.2.M-2 |

SANDOVAL COUNTY LANDFILL LYSIMETER WIND DATA

STATION: SANDOVAL COUNTY LANDFILL
LATITUDE: 35° 18' 27"N
LONGITUDE: -106° 37' 30"W
ELEMENT: MEAN WIND SPEED
DATA: 5/1/2016-5/31/2016



SCLF WIND ROSE SPRING

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

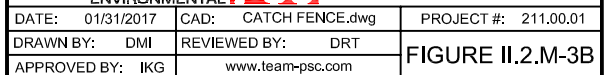


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Phone: 505-867-6990
Fax: 505-867-6991

Drawing: P:\acad 2003\211.00.01\NEW SANDOVAL WIND ROSE\LAKES SPRING 2-15-2017 WIND ROSE.dwg
Date/Time: Feb, 22, 2017-14:42:22 ; LAYOUT: A (P)
Copyright © All Rights Reserved, Gordon Environmental PSC 2017.

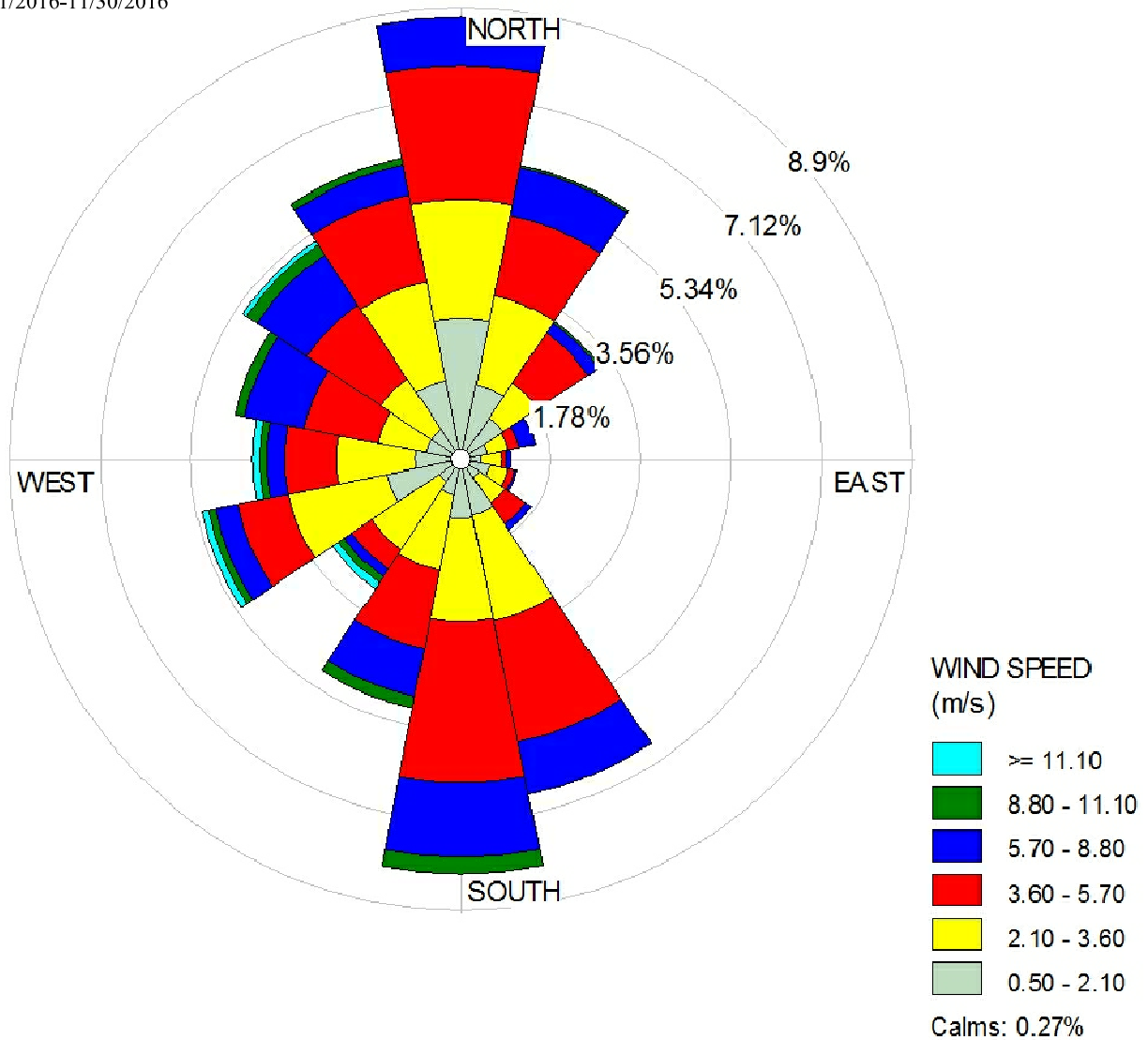
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| DRAWN BY: DMI | REVIEWED BY: DRT | |
| APPROVED BY: IKG | www.team-psc.com | FIGURE II.2.M-3A |

STATION: SANDOVAL COUNTY LANDFILL
LATITUDE: 35° 18' 27"N
LONGITUDE: -106° 37' 30"W
ELEMENT: MEAN WIND SPEED
DATA: 6/1/2016-8/31/2016



SANDOVAL COUNTY LANDFILL LYSIMETER WIND DATA

STATION: SANDOVAL COUNTY LANDFILL
LATITUDE: 35° 18' 27"N
LONGITUDE: -106° 37' 30"W
ELEMENT: MEAN WIND SPEED
DATA: 9/1/2016-11/30/2016



SCLF WIND ROSE FALL

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO



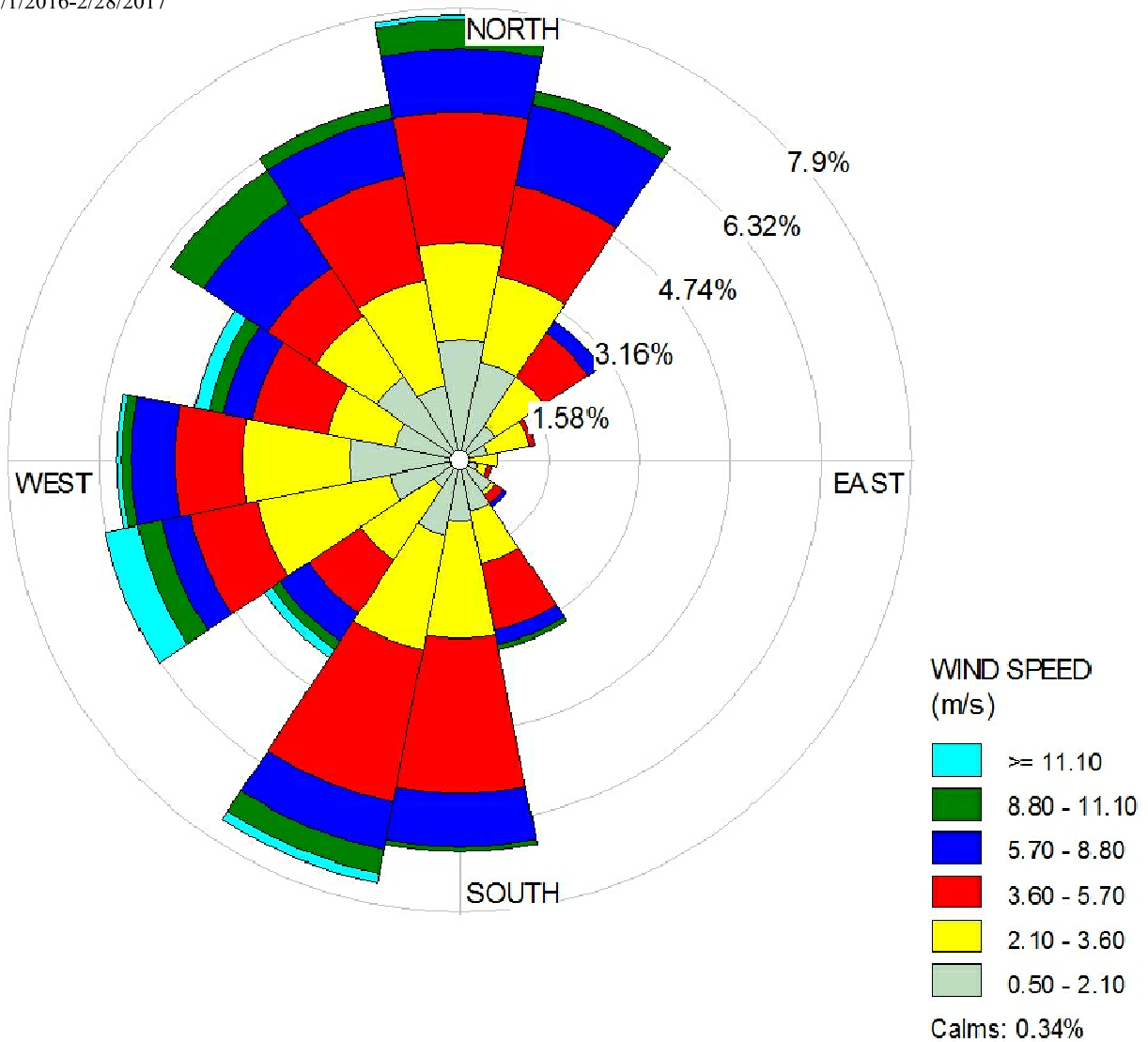
213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

Drawing: P:\acad 2003\211.00.01\NEW SANDOVAL WIND ROSE\LAKES FALL 2-15-2017 WIND ROSE.dwg
Date/Time: Feb, 22, 2017-14:41:15 ; LAYOUT: A (P)
Copyright © All Rights Reserved, Gordon Environmental PSC 2017.

| | | |
|------------------|----------------------|----------------------|
| DATE: 01/31/2017 | CAD: CATCH FENCE.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: DRT | |
| APPROVED BY: IKG | www.team-psc.com | FIGURE II.2.M-3C |

SANDOVAL COUNTY LANDFILL LYSIMETER WIND DATA

STATION: SANDOVAL COUNTY LANDFILL
LATITUDE: 35° 18' 27"N
LONGITUDE: -106° 37' 30"W
ELEMENT: MEAN WIND SPEED
DATA: 12/1/2016-2/28/2017



SCLF WIND ROSE WINTER

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO



213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

Drawing: P:\acad 2003\211.00.01\NEW SANDOVAL WIND ROSE\LAKE WINTER 2-15-2017 WIND ROSE.dwg
Date/Time: Feb, 22, 2017-14:46:50 ; LAYOUT: A (P)
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| | | |
|------------------|----------------------|----------------------|
| DATE: 01/31/2017 | CAD: CATCH FENCE.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: DRT | FIGURE II.2.M-3D |
| APPROVED BY: IKG | www.team-psc.com | |

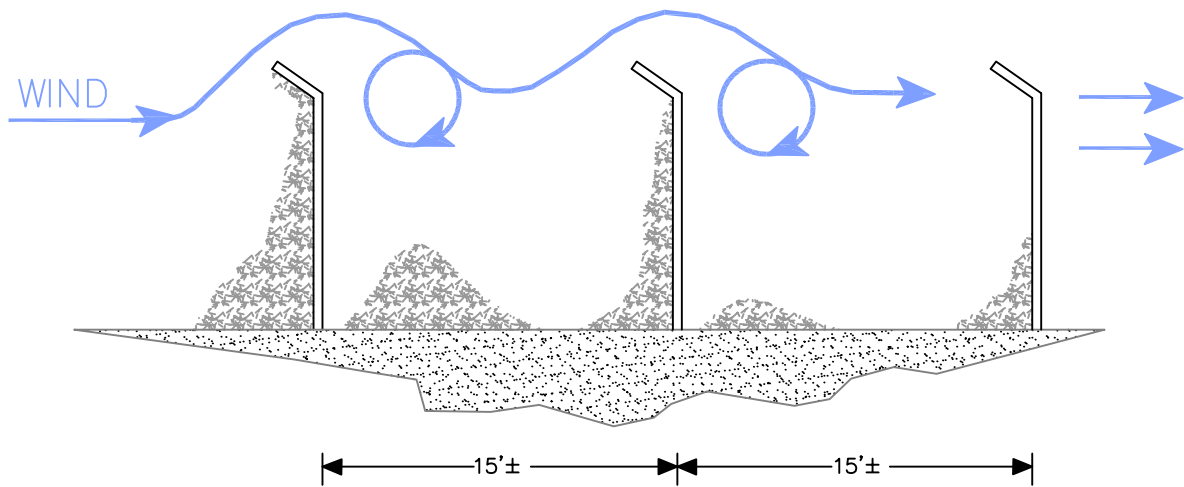
1.3 Wind Flow

The impact of wind on an object (such as a fence) creates areas of positive and negative pressure. Positive pressure is created on the “windward” side of the fence; and negative pressure is created on the “leeward” side of the fence. Wind pressure varies creating differential air flows and turbulence via its interaction with the surrounding environment. As shown on **Figure II.2.M-4**, a litter catch fence becomes ineffective once plugged with debris, and every effort will be made to keep fencing clear of debris in order to maintain effectiveness. NMED’s guidance document, *Litter Control Primer for Landfill Operators*, is included for reference as **Attachment II.2.M-A**. The SCLF Site Plan is provided as **Figure II.2.M-5**, which includes the SCLF Wind Rose to illustrate its orientation with respect to filling operations.

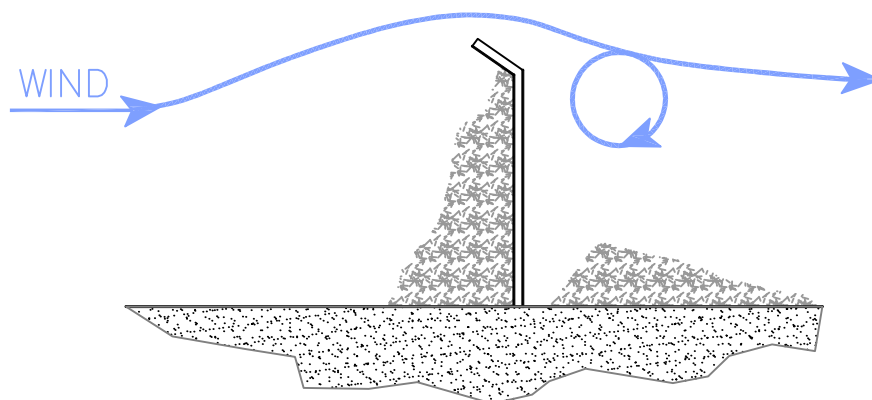
1.4 Intermediate Fencing

Portable litter fencing and berms are currently used in the immediate vicinity of the working face, and at other appropriate locations to control blowing litter. The County plans to continue use of intermediate fencing at SCLF to create incremental “stalls” at the site so that windblown litter is intercepted by fencing at several key positions prior to reaching perimeter fencing, and thus having less opportunity to leave the site. Placement of intermediate fencing will depend on the prevailing winds, site operations, and topography. Seasonal wind roses will serve as a starting point for determining placement of intermediate fencing. The County will maintain installations of temporary intermediate fencing in a series of 2-3 fence lines, approximately 15 feet apart, close to the source of litter and downwind, to mitigate blowing litter. Intermediate fencing may be adjusted at any time, based on experience and weather conditions, in order to improve its effectiveness. Types of intermediate fencing can vary, and may include chain-link, wire mesh, slat fencing, earthen berms, etc. The type of fencing used for any of the intermediate fences may be adjusted at any time based on performance, maintenance, availability, budget, etc.

A form for recording data for intermediate fencing, *Litter Management – Intermediate Fencing Form*, is provided as **Attachment II.2.M-B**, and is intended as a tool for SCLF operators to use for experimenting with and recording intermediate fencing data as a means to identify and



INTERMEDIATE FENCING SERIES



CATCH FENCE (PLUGGED)

NOT TO SCALE

CATCH FENCES

SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO



213 S. Camino del Pueblo
Bernalillo, New Mexico, USA
Phone: 505-867-6990
Fax: 505-867-6991

| | | |
|------------------|----------------------|----------------------|
| DATE: 02/21/2017 | CAD: CATCH FENCE.dwg | PROJECT #: 211.00.01 |
| DRAWN BY: DMI | REVIEWED BY: DRT | |
| APPROVED BY: JKG | www.team-psc.com | |

FIGURE II.2.M-4

document the most efficient configurations for the SCLF site, including seasonal configurations, if applicable. This form includes a description of the wind data, active working area, fencing type and description of installation configuration. It also includes a place to document the results of the intermediate fencing configuration, to draw a diagram of the configuration with relation to the working face, and to document photographs (drone or camera) taken for the site. A Site Plan is also included with the form for marking approximate locations of intermediate fencing, etc. Documentation will be maintained onsite as part of the SCLF Facility Operating Record.

1.5 Collection and Disposal

SCLF personnel conduct routine inspections of the property and within about one mile surrounding the Landfill, and litter collection is scheduled based on the inspection results, with the emphasis on off-site controls first. It is SCLF management staff's responsibility to supervise Landfill personnel to ensure that litter has been contained by the end of the working day. In case of adverse weather conditions (e.g., high wind, cold temperatures), the priority for litter control is off-site collection first.

Collection is conducted at SCLF on a minimum weekly basis, and more frequently as needed, especially during (or immediately after) high-wind conditions. Litter and debris are collected and disposed of at the active fill face. There may, however, be times when such a practice is impractical. Such an instance may occur at the end of the working day when the active face is closed. In such an instance, the debris will be temporarily placed in containers or covered (e.g., heavy bags, tarps, soil) and disposed of at the fill face at the beginning of the next working day. Vehicles entering the site to deliver waste must be adequately secured, enclosed, covered, or tarped, or be delivering materials not susceptible to wind dispersion or suffer penalties. Every effort will be made to keep fencing clear of debris in order to maintain effectiveness.

SCLF litter cleanup activities will be documented using the *Litter Management– Cleanup Documentation Form*, provided as **Attachment II.2.M-C**. This form is intended to assist SCLF operators with tracking litter cleanup events, and documenting post-cleanup with a drone or with a camera. Documentation will be maintained onsite as part of the SCLF Facility Operating Record. In addition, as described in detail in Section 5.16 (Edge of Liner and Sideslope Maintenance) of

Volume II.2, SCLF will conduct monthly inspections using the *Edge of Liner and Sideslope Inspection Form* provided as **Attachment II.2.J** to check for rills and exposed waste on slopes with intermediate cover. The operator will record the date, photos, and notes regarding when repairs or clean-up will be undertaken on the Edge of Liner and Sideslope Inspection Form. Covering of waste or repairs or tracking of rills will be made within 45 days from discovery, unless an extension is granted by the SWB. Woodchips may be placed on slopes as needed to prevent wind and water erosion and exposure of waste.

ATTACHMENT II.2.M
UPDATED LITTER MANAGEMENT AND CONTROL PLAN (02/2017)
SANDOVAL COUNTY LANDFILL

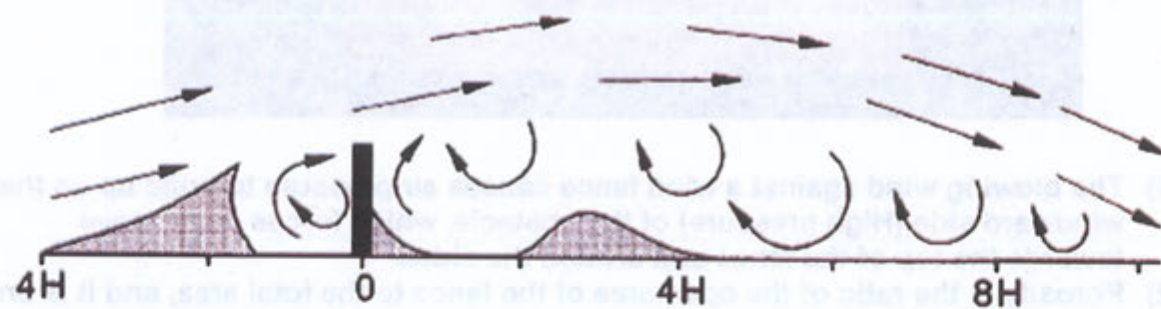
ATTACHMENT II.2.M-A
LITTER CONTROL PRIMER FOR LANDFILL OPERATORS

Litter Control Primer

For Landfill Operators

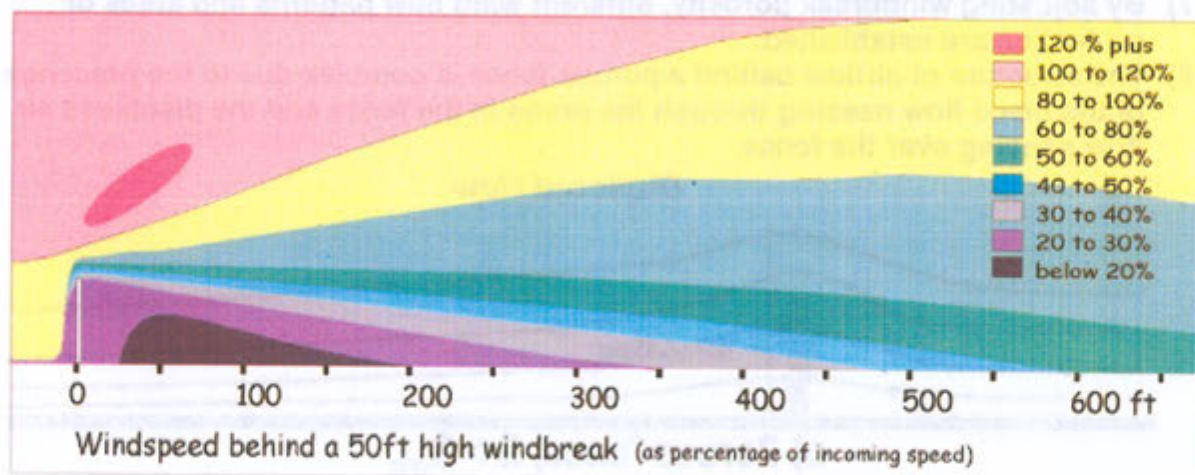
Key points to understand about the flow of wind. The Wind is like a river bottom. Water flows and tumbles over the river bottom. The faster the flow, the more turbulence (tumbling) occurs. If a large rock is thrown into the river, it would create a sheltered spot immediately behind the rock.

A solid wind fence is like the rock. The problem is that just past the rock, the water that has been deflected over and around the rock comes crashing down and in.

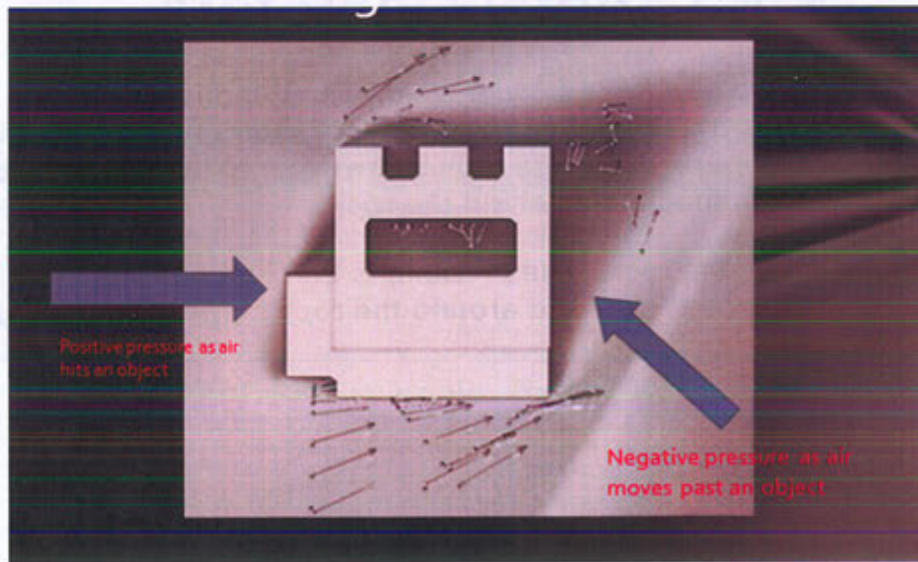


Solid Fence

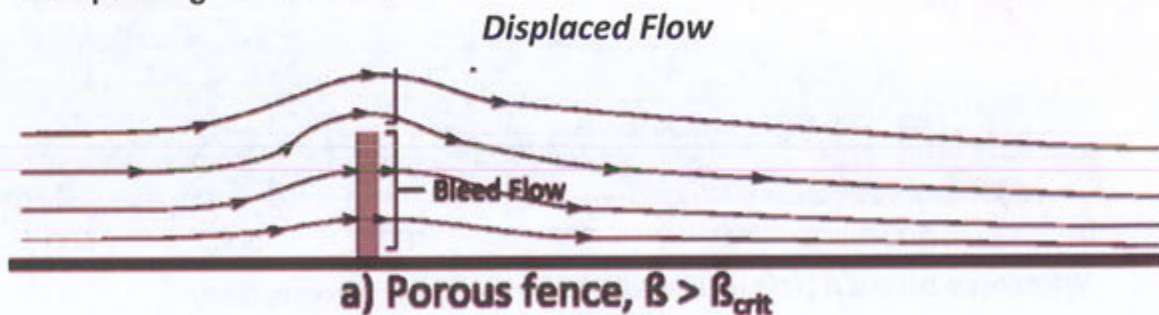
Windbreaks and wind fences control the amount of “crashing down and in” by letting a little wind flow through. The wind flowing through holds the faster (deflected) wind away for a few hundred feet. This lets the winds merge together more gently again with less turbulence. This graphic shows a diagram of a well-designed windbreak and the wind speeds around it.



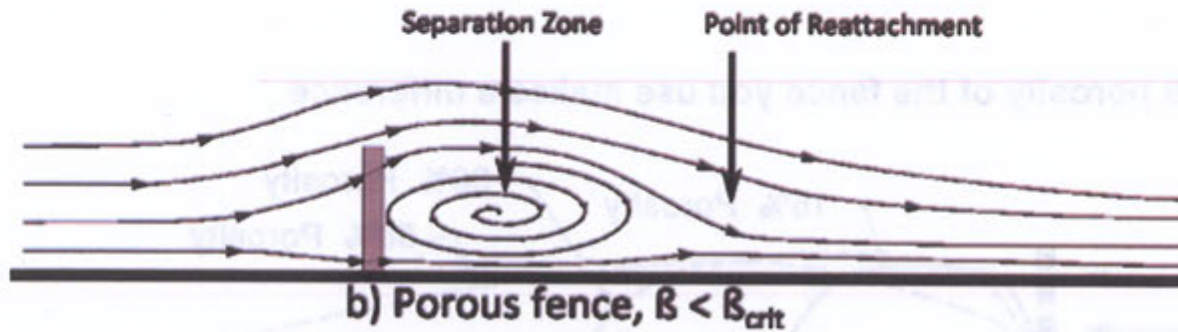
Understand How Positive and Negative Pressure Works



- 1) The blowing wind against a wind fence causes air pressure to build up on the windward side (High pressure) of the obstacle, which forces air to move towards the top of the fence and around the sides.
- 2) Porosity is the ratio of the open area of the fence to the total area, and it is one of the most influential structural factors to determine the effectiveness of fences.
- 3) The wind that flows through the open portions of the fence is called bleed flow. The lower the porosity of the barrier, the less bleed flow will occur.
- 4) Low pressure develops on the leeward side of the fence or windbreak with less porosity.
- 5) The low pressure area behind the fence causes air to move over the windbreak downward, creating turbulence and reducing protection downward.
- 6) As porosity increases, the amount of bleed flow through the pores of the fence increases, which moderates the low pressure and turbulence and increases the downwind protection area. Note while this protected area is larger, the wind speed reductions are not as great.
- 7) By adjusting windbreak porosity, different wind flow patterns and areas of protection are established.
- 8) The structure of airflow behind a porous fence is complex due to the presence of the bleed flow passing through the pores in the fence and the displaced air flow passing over the fence.



Air Flow Zones

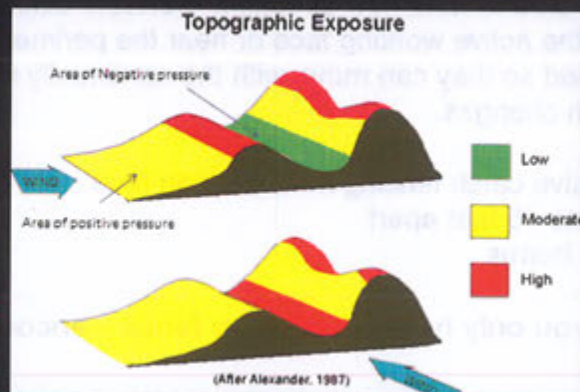


A weather station with a wind speed and direction indicator is needed at all landfills.



Know the seasonal changes in wind direction

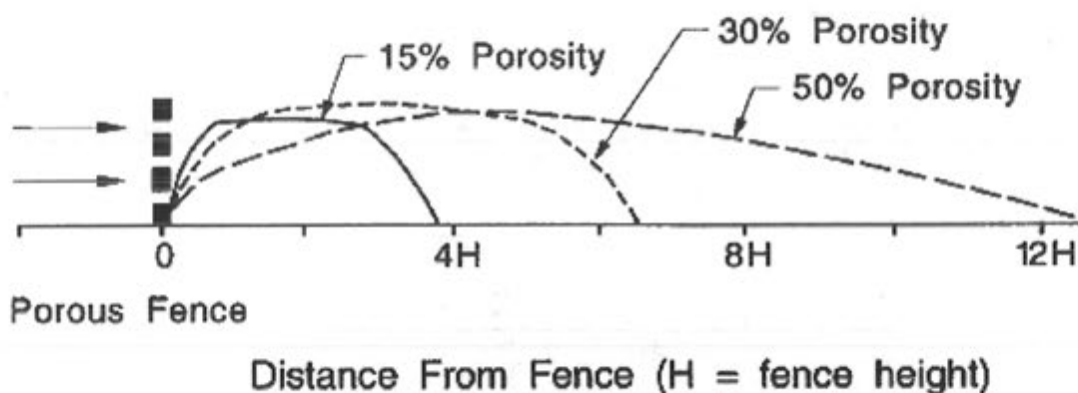
Plan Your Fill Sequence By Wind Direction



Are you properly using fences to manage litter at your landfill?

"If you don't use a variety of fences at your landfill, yet your complaining about litter, you're not dealing with the problem, your chasing symptoms" (Who Says You Have a Litter Problem, Neil Bolton, MSW Management, July/August 2000).

The porosity of the fence you use makes a difference



Proper Placing of Portable Catch Fences

The placement and use of portable litter catchment fences is just as important as their design. Poorly placed, they can be completely ineffective. The fences must be placed closed to the source of the litter and downwind. Some operators will place these fences in a circular pattern around their active working face.

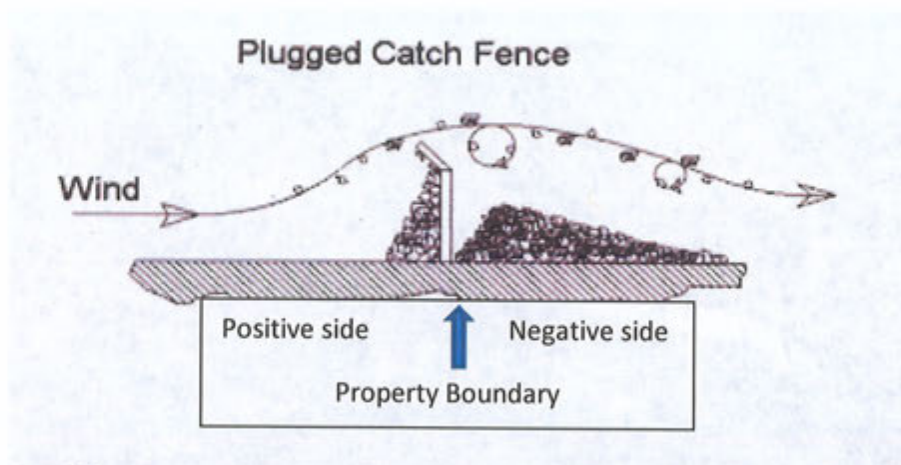
Use multiple rows of fences. With a single row, the fence can be plugged and the weight of the litter will cause the fence to fall over. Some litter may be trapped behind the fence if a sheltered zone is created by the plugged fence, but by placing a second shorter row of fence, secondary trapping exists. A third row of short fence provides an even higher degree of litter trapping.

How Does Portable Catch Fencing Work? – Why does it catch litter before it gets to perimeter fencing?

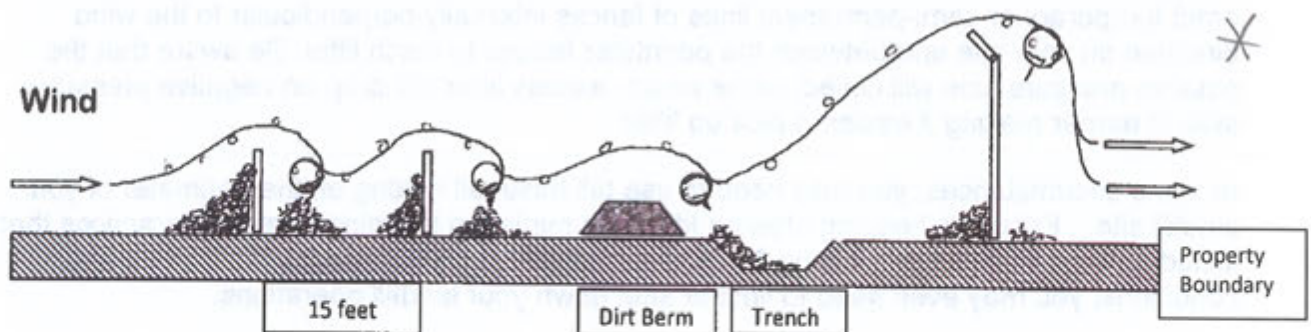
Catch fencing uses positive and negative wind pressure to capture waste (positive side) and drop waste on the negative side of wind flow direction. Portable catch fences are used in either in close proximity of the active working face or near the perimeter fence. They are designed to be quickly moved so they can move with the continually moving working face and when the wind direction changes.

- use temporary inexpensive catch fencing near working face
- use in series approximate 15 feet apart
- use in combination with berms

This is what happens if you only have a boundary fence – encourages litter to leave the site

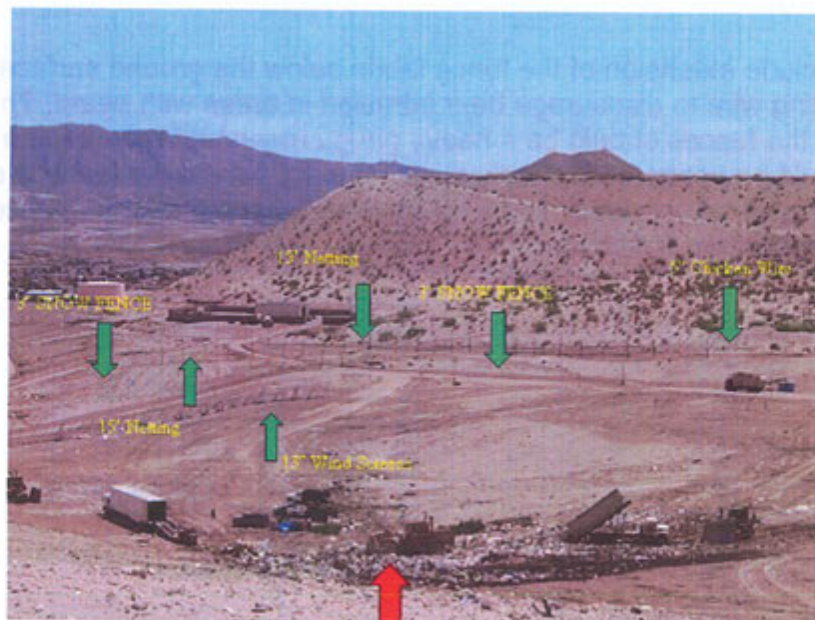


Series short stall fences, dirt berms and trench uses positive and negative pressure to promote waste drops before the boundary fence for easy pick-up and to prevent litter from leaving the landfill property.



Implement a Comprehensive Systems Approach – Litter control depends on where you are operating your working face/

Relying on one line of defense for managing your litter will help, but it won't solve blowing litter issues. You need to look at a variety of fencing options.





Fencing systems must be designed to keep litter inside the landfill. Plans must include, using perimeter fences, wind-break fences, and portable catch fences. You may need to erect temporary or semi-permanent lines of fences internally perpendicular to the wind direction on your site and between the perimeter fences to catch litter. Be aware that the positive pressure side will collect some waste; excess litter will drop on negative pressure side of barrier making it easier to pick up litter

In some circumstances, you may need to use tall baseball netting on the perimeter of your landfill site. . Focus on keeping blowing litter to a minimum by using operating practices that include operation of small working faces, apply cover, and good compaction. In high wind conditions, you may even need to limit or shut down your landfill operations.

Perimeter Fences

Perimeter fences serve more than one purpose. They provide site security, can limit human and animal access, and they are the last line of litter catchment before litter can escape the site. Perimeter fencing is most commonly constructed as a chain-link fence mounted on steel post. A three strand barbed wire fence on the property line is not an effective litter collection fence.

Some designs include extension of the fence fabric below the ground surface and addition of electronic fencing wire to discourage bear intrusion in areas with bears. To prevent human intrusion, the fences should be a heavy gauge mesh and mounted on sturdy fence posts. Signs should be posted that clearly state 'no entry', and if the fence is electrified notification signs must be provided. To be effective as a litter catchment fence, the mesh should not be greater than 2 inches.



Below is a unique design installed in a couple of location in Southern Alberta is a sloping perimeter fence. The fence is slope into the prevailing wind direction on the downwind side of the active landfill. The concept behind this design is to drive the blowing litter to the bottom of the fence for easier retrieval and to minimize plugging of the fence that can happen with vertical fences.



With either a vertical fence or sloping fence design, it is essential that the fences be cleaned of any litter that is trapped by the fence for both aesthetic reasons and to maintain the fence. If litter is allowed to collect on the fence fabric, it may eventually plug the free flow of air through the fence and litter will then blow over the fence, or it may result in the fence being blown over...

Other Design – Internal Litter Trap Box – New Mexico

Place in area that often accumulates large amount of waste. The litter trap box must be installed in a location prior to the perimeter or property boundary fence.



Things Can Go Bad Quickly Without Use of Multiple Litter Control Practices

If operators are relying on single property boundary fence, they are begging the wind to create a positive collection point that will weigh down your fence and breakage of nets and poles will happen. A single barrier will increase costs for replacement and staff time for repairs and litter clean up. You may also receive a Notice of Violation during an inspection.



You are also creating a situation that can bring your last barrier down due to weight and wind pressure. This last barrier creates a negative drop on the backside (outside) of your single barrier on the edge of your property. **Your goal as an operator is to limit the amount of waste that reaches the final litter control fence or backstop!**

Use a series of internal barriers to collect waste inside your landfill before it reaches the perimeter fence. Experiment with variations of stall fencing or other techniques. If multiple methods are not used *litter will definitely end up on someone else's property!* External litter will also travel way beyond your facility, and it will take more time to pick and clean-up by staff. Picking up litter once it leaves the site is time consuming, and it waste of staff time and economic resources. Waste outside of the landfill boundary is seen during an inspection it will result in the issuance of a Notice of Violation by an Enforcement Officer.



Semi-permanent and Movable Internal Intermediate/Stall Fencing & Soil Berms

Use semi-permanent fences in problem areas internally on the landfill site. Such fencing allows easy moving as the landfill working face expands. The angle iron post design could be established as a temporary fence and used where it will be in that location for longer periods of time. Some fence designs marketed by fencing companies are intended to be even more temporary. Some vendors designs are simple fabric mounted on light weight posts and are anchored with wires. Others are designed to angle into the wind. The intent of the design is to allow these fences to be easily and quickly moved.



Short fences need to be placed where the litter blows, where they won't interfere with landfill operations and development, and where operators have access for clean-out or repair.

Stall fencing, is fencing that is placed at locations throughout the landfill site to trap blowing litter. The purpose of intermediate fencing is to establish internal facility *litter drop-zones* near working faces or in an area perpendicular to the prevailing wind. Place intermediate stall fencing at strategic locations between the active areas of the landfill and the site's perimeter fences. Of course location will be determined by blowing litter direction, wind conditions experienced at the site, site topography, and budget allowance.

Try different configurations and locations to see what works best at your site. Intermediate fencing may be temporary, semi-permanent, or even permanent when it makes sense to do so. Stalls should be placed in areas that always gather litter. Replace, repair and move these fences as necessary. The more of this inexpensive fencing is used, the less litter will collect on the inside and outside of perimeter fences. These short stall fences will ensure that less litter will escape the landfill property boundary, if placed, and maintained.

Intermediate fencing can consist of single rows of fencing or multiple rows of available inexpensive types of fencing such as chicken-wire or wood slat. Operators in NM have found that the plastic net fencing rips easily in windy locations in New Mexico.





Please note that landfill operators have found that in NM the plastic fencing rips during moderate winds if trash is present. Use Chicken wire

When permanent fences are used, the fence could consist simply of a wire mesh fence (with no greater than a 2 inch mesh) mounted on angle iron posts, or it could be constructed similar to the chain-link perimeter fencing.

Soil Berms – Easy to construct, use, move and reuse

Soil berms are effective in New Mexico if placed properly. Helps to Prevents off-site litter complaints!



These berms can be moved as necessary seasonally as prevailing wind directions may change. It is much easier for operators to pick up dropped litter next to an engineered soil stall than off of bushes in the desert or on adjoining property.

Portable – Net Catch Fences

The tall baseball netting fences may also be considered as an intermediate fence not just a perimeter boundary fence. However, these taller fencing systems are usually a permanent installation, so their choice of location needs to be well planned out based on observation. Some netting designs can be installed in a temporary location and be moved as the landfill operations move. Two examples are shown below.



Portable Working –Face Catch Fences are used in close proximity of the active working face. They are designed to be quickly moved so they can move with the continually moving working face and when the wind direction changes.



Many landfill use heavy frame structure portable fences that is mounted on a skid frame. The fence mesh is typically a heavier gauge 2 inch wire mesh. The skid frame acts as the base to hold the fence erect. My view is that the base (or skid frame) needs to be $\frac{2}{3}$ the

height of the vertical fence frame. Ideally, at least 2/3 of the base should extend to the downwind site of the fence to reduce the potential for the fence blowing over. Portable fencing sections can also be designed to slope into the wind. This helps contain the litter at the bottom of the fence and reduce plugging of the fence. This type of fence design is moved by pulling or lifting the fence sections using landfill equipment. Some other innovative designs use a steel bar section on the vertical section of the fence that is built so the top of a loader bucket can hook under the bar to lift the fence and carry to the desired location. However, during site visits in New Mexico, I often see these fences unused and stored in an area away from the working face, laying on their sides, or damaged. Operators tell me they do not like to use them because they are cumbersome and difficult to move around. They are also expensive to purchase or fabricate. There are numerous manufacturers that market portable fence systems and can be easily found on an Internet search. Landfill operators often develop their own innovated designs and work with local welding shops.

Important factors in portable fence design are:

- use heavy frames to reduce damages that occur with light frames
- use a wire mesh that is no greater than 2 inches
- design the fence with a substantial base to prevent it from blowing over
- design the fence so the ends butt up against each other, or even so they can over lap

Landfill Waste Tipping Area/Working Face

Use series of portable catch fences near working face and before perimeter fences as a wind break.





Wind breaks



Multiple Wind Breaks and Litter Control Structures

Combination of Controls Needed

A combination of techniques needs to be used at the landfill to prevent litter from occurring and to prevent litter from escaping.

Portable wind screen fences to shelter the working face and catch fences are used downwind to catch any blowing litter. The working face is kept as small as possible to minimize exposure of waste to wind.

A tall 'primary' entrapment fence is placed at the edge of the landfill operations, and a 30meter tall 'secondary' entrapment fence is placed downwind (east side) of the landfill.



Landfill operations need to close when winds exceed limits as set in the Litter Management Plan in the approved Operations Plan in the Permit. Walking floor transfer trailers need to be prohibited from unloading when wind gust exceed the identified limit.

Try some of these options to see if any of these ideas help make litter management easier and saves time and costs at your landfill facility.

Sources:

(Who Says You Have a Litter Problem, Neil Bolton, MSW Management, July/August 2000)
Some photos from Patrick Peck, Corralitos Landfill, and WeatherSolve Structures.

ATTACHMENT II.2.M
UPDATED LITTER MANAGEMENT AND CONTROL PLAN (02/2017)
SANDOVAL COUNTY LANDFILL

ATTACHMENT II.2.M-B
LITTER MANAGEMENT – INTERMEDIATE FENCING FORM

LITTER MANAGEMENT – INTERMEDIATE FENCING FORM
SANDOVAL COUNTY LANDFILL

Name: _____

Date: _____

Wind Speed: _____

Wind Direction: _____

Working Face (GPS): _____

Active Cell: _____

Type of Fencing:

Size of Fencing (width/height): _____

Number of Installments: _____

Distance apart: _____

Location/Configuration:

Results:

[illegible][illegible]

Photo Log:

| Photo Type (D or C) | Photo No. | Date | Description |
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Note: Drone Photo = “D”, Camera Photo = “C”



ATTACHMENT II.2.M
UPDATED LITTER MANAGEMENT AND CONTROL PLAN (02/2017)
SANDOVAL COUNTY LANDFILL

ATTACHMENT II.2.M-C
LITTER MANAGEMENT– CLEANUP DOCUMENTATION FORM

LITTER MANAGEMENT– CLEANUP DOCUMENTATION FORM
SANDOVAL COUNTY LANDFILL

Name: _____

Date: _____

Wind Speed: _____

Wind Direction: _____

Working Face (GPS): _____

Active Cell: _____

Litter Cleanup:

☐ **Routine**

☐ **Wind Event**

☐ **Other:** _____

Date of Last Litter Cleanup: _____

Description of Cleanup/Locations:

Cleanup Personnel:

Drone Documentation:

☐ **Yes** **Date:** _____ **Name/Company:** _____

☐ **No** **Reason:** _____

Photo Log:

| Photo Type (D or C) | Photo No. | Date | Description |
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Note: Drone Photo = “D”, Camera Photo = “C”

Additional Comments:

EXHIBIT H

SAMPLE CONTRACT

CONTRACT # _____
Effective Date: _____

SANDOVAL COUNTY CONTRACT FOR LANDFILL OPERATION SERVICES

This Contract is entered into between Sandoval County, hereinafter referred to as the "County," and "Contractor" described below, collectively the "Parties", to provide services on behalf of Sandoval County.

Contractor Legal Name:

Services Summary Description: Landfill Operations

Initial Period of Performance shall be through: Month, Day, Year

This Contract complies with New Mexico and County procurement requirements as follows:

RFP # 2023-SCPW-03, County approval date: # _____

No services shall be rendered nor shall any goods be provided until this contract has been executed by all parties, regardless of the indicated effective date.

NOTICES: All correspondence regarding this contract shall be sent to:

To the County:

SANDOVAL COUNTY
PUBLIC WORKS DEPARTMENT
2708 Iris Road
Rio Rancho, New Mexico

To the Contractor:

With copies to:

Change of address by either party shall be by notice given to the other in the same manner as above specified for giving "notices."

ARTICLE 1 - SERVICES AND/OR GOODS TO BE PROVIDED: For RFP or Professional Services contracts, the Contractor shall provide services to the County on matters relating to the contractor's specialized areas of expertise as defined in this Contract and its referenced or incorporated Attachments.

All Contractors shall secure and remain current on all insurances, licenses, permits, certificates, fees, etc., required for the performance of this contract.

ARTICLE 2 - CONTRACT DOCUMENTS: The Contract shall be comprised of this contract document, its Attachments and all documents referenced herein. As applicable, the Contract shall also include all Proposal or Bid documents, including the Contractor's responses, Reference Specifications, Special Conditions, Technical Specifications, Standard Details, any addenda thereto, and all negotiation records, all of which are incorporated herein and made a part of the Contract.

In instances where there exists a conflict between any of the Contract documents described above, this Contract plus attachments hereto, negotiation records, the County's solicitation documents, and the Contractor's response to the solicitation, in that order, shall control the interpretation of the parties' respective rights and obligations.

ARTICLE 3 - PERIOD OF PERFORMANCE: The period of performance of this Contract shall commence **Month XX, 2023** and continue through the Initial Period of Performance date detailed above. Thereafter, the County and the Contractor shall have the option to extend the term of this Agreement for an additional four (4) year period in conformance with State statutes and other regulations. If the Contractor does not desire to extend the term of the Agreement, the Contractor shall inform the County in writing of said desire on or before **Month XX, XXXX**. If the County does not desire to extend the Agreement, the County shall give the Contractor not less than six (6) months' notice of its intent to exercise such option. If either the Contractor or the County neglect to provide said notice then the Agreement shall be extended and the Parties shall execute the Agreement extension on or before **Month XX, XXXX**.

ARTICLE 4 - PLACE OF PERFORMANCE: The Contractor shall provide the required services or goods for the County when and where appropriate or as required by the County.

ARTICLE 5 - COST AND PAYMENT: The Contractor shall be paid for services rendered satisfactorily per the negotiated fee(s) and payment schedules incorporated hereto in applicable attachments, including Attachments A and B. All payments will be in arrears. Payment shall be made per request upon receipt of a detailed invoice that shall include description of work completed or goods delivered pursuant to the deliverable(s) agreements and measures of attainment of this contract for the period covered by the invoice. The invoice submitted shall note the purchase order number and this Contract number and may be delivered to the Department contact specified in "Notices" above. The County shall pay to the Contractor the New Mexico Gross Receipts Tax on labor and services only as levied on the amounts invoiced and payable under this Contract. The Contractor will pay the New Mexico Gross Receipts Tax levied on the amounts payable under this Contract and remitted to them by the County to the appropriate state agency.

ARTICLE 6 - AMENDMENTS: This Contract shall not be altered, changed, or amended except by written instrument signed by both parties.

ARTICLE 7 - ASSIGNMENT: The Contractor shall not assign nor delegate specific duties as part of this Contract nor transfer any interest nor assign any claims for money due or to become due under this Contract without the written consent of the County.

ARTICLE 8 - BINDING EFFECT OF CONTRACT: Both Parties agree that the terms of this Contract and any extension or renewal thereof shall extend to and be binding upon the administrators, assigns, successors, and transferees of the contracting parties.

ARTICLE 9 - COMPLIANCE WITH GOVERNING LAW: This Contract shall be construed in agreement with New Mexico law. The Contractor and the County shall keep fully informed of and shall also comply with all applicable federal, state, and local laws, ordinances, and regulations and all orders and decrees of bodies or tribunals having any jurisdiction or County, which in any manner affect those engaged or employed, or the work, or which in any way affect the conduct of the work. By way of illustration, but not of limitation, the Contractor and the County shall comply with laws relating to employment eligibility including: the Immigration Reform and Control Act of 1986 (Public Law 99-603) and the Immigration Act of 1990 (Public Law 101-649) regarding employment verification and retention of verification forms for any individual(s) hired on or after November 6, 1986, that will perform any labor or services under this Contract. The Contractor and the County shall comply with all federal statutes relating to non-discrimination including, but not limited to: Title VII of the Civil Rights Act of 1964 (Public Law 88-352), which prohibits discrimination on the basis of race, color, or national origin; Title IX of the Education Amendments of 1972, as amended [20 U.S.C.A. Section 504 of the Rehabilitation Act of 1973 (Public Law 93-112)], which prohibits discrimination on the basis of handicap; the Age Discrimination in Employment Act of 1967 (Public Law 90-202), as amended; the Americans with Disabilities Act of 1990 (Public Law 101-336); and all amendments to each, and all requirements imposed by the regulations issued pursuant to these acts, especially 45 CFR Part 80 (relating to race, color, and national origin), 45 CFR Part 84 (relating to handicap), 45 CFR Part 86 (relating to sex), and 45 CFR Part 91 (relating to age).

ARTICLE 10 - CONFIDENTIAL INFORMATION: Any confidential information, not subject to disclosure under the Inspection of Public Records Act, given to or developed by the Contractor, its officers, directors, employees, agents, or sub-consultants in the performance of this Contract will be kept confidential and will not be made available to any individual, organization, or other entity by the Contractor without prior written approval of the County.

ARTICLE 11 - CONFLICT OF INTEREST: The Contractor warrants that it shall not acquire any interest within a sixty (60) mile radius of the Landfill (excluding any operations already in existence) during the term of this Contract which would conflict with the performance of the landfill operational services required under this Contract. In the event such a conflict arises, it shall immediately be brought to the attention of the County and appropriate action acceptable to the County shall be taken. The Contractor's failure to inform the County of the existence of a potential conflict of interest constitutes default and shall be grounds for immediate termination of Contract by the County.

ARTICLE 12 - CONFLICTS OF LAW: If any provision of this contract conflicts with governing federal or state law or County ordinances, then that law or ordinance shall supersede the conflicting provision of this contract.

ARTICLE 13 - HIPAA COMPLIANCE: This section has been deleted.

ARTICLE 14 - INDEMNIFICATION AND HOLD HARMLESS AGREEMENT: See Attachment A, Item 7.

ARTICLE 15 - INDEPENDENT CONTRACTOR: Nothing in this Contract is intended or should be construed in any way to create or establish a partnership relationship between the Parties or to establish the Contractor as an agent, representative, or employee of the County for any purpose or any manner whatsoever. Contractor and its employees shall not accrue leave, retirement, insurance, or any other benefits afforded to employees of the County. Contractor

is an independent contractor of the County. The Contractor, its officers, directors, employees, servants, agents, or representatives are not and shall not be deemed employees of the County and shall not bind the County in any respect.

ARTICLE 16 - INSURANCE: For the duration of the contract and until all work specified in the contract is completed, the Contractor shall maintain in effect current Certificates of all insurance as required below and comply with all limits, terms and conditions stipulated therein. The County shall be named as an additional insured as stipulated. Contractors who are required to provide Certificate(s) of Insurance, must provide a new current Certificate(s) no less than annually. As applicable, work under this contract shall not commence until evidence of all required insurance is provided to the County for inclusion with this Contract. All insurance shall be written to conform to the requirements stipulated. Evidence of such insurance shall consist of a completed certificate of insurance, signed by the insurance agent for the Contractor and returned to the County attesting that all required insurance is in effect. If for any reason any material change occurs in the coverage during the course of the Contract, the Contractor shall provide the County with thirty (30) days prior written notice of such change.

Required Insurance: As specified in the **RFP, BID documents or Attachment**

A.

ARTICLE 17 - JURISDICTION AND VENUE: If any dispute arising under this contract cannot be resolved by negotiation or mediation, the proper jurisdiction and venue for any litigation, if permitted, is the Sandoval County Courts.

ARTICLE 18 - KEY PERSONNEL: The Contractor shall identify all key personnel assigned to the performance of this Contract in Section II, Attachment H of this Contract. The Contractor shall provide the County with prior written notice of changes of key personnel identified on Attachment H.

ARTICLE 19 - MEDIATION: In the event that a dispute arises with respect to any of the provisions contained in this Contract or any other matter affecting this contractual relationship between the County and the Contractor, the Parties agree that prior to filing any court action to enforce the Contract or rights under the Contract, they will use the services of a mediator. The mediator shall either be certified as a mediator or shall have experience as a mediator. The parties shall mutually agree upon the choice of mediator. In the event the Parties have not agreed to a mediator within three days of written notice to the other regarding the dispute, then a list of seven potential mediators will be obtained from the Court or other professional association, and the Parties shall use a striking process until a mediator is agreed upon.

Each party shall be responsible for their respective mediation costs.

ARTICLE 20 - MERGER OF PRIOR CONTRACTS: This Contract incorporates all the conditions, contracts, agreements, and understandings of the Parties concerning the subject matter of this Contract. All such conditions, understandings, and agreements have been merged into this written Contract. No prior condition, contract, agreement, or understanding, verbal or otherwise, shall be valid or enforceable unless embodied in this Contract, either explicitly or by reference.

ARTICLE 21 - NON-APPROPRIATION: The County's obligation to make payment under the terms of this Contract is contingent upon its appropriation of sufficient funds to make those payments and the NM Department of Finance's (DFA) final approval of the County's budget. If the County does not appropriate sufficient funds or DFA does not approve the County's final budget, this Contract will terminate upon written notice of that effect to the Contractor. The

County's determination that sufficient funds have not been appropriated, through the Sandoval County Commissioners or DFA action, is firm, binding, and not subject to review.

ARTICLE 22 - NOTICE TO PROCEED OR COMMENCEMENT OF WORK: It is expressly understood that this Contract is not binding upon the County until approved and signed by the County and, further, that the Contractor shall not proceed with its obligations until the Contract has been signed by all Parties.

ARTICLE 23 - PARAGRAPH HEADINGS: Paragraph headings are for convenience and reference and are not intended to limit the scope of any provision of this Contract.

ARTICLE 24 - PERSONAL LIABILITY: No elected or appointed official, employee, servant, agent, or law enforcement officer of the County shall be held personally liable under this Contract or any extension or renewal thereof because of its enforcement or attempted enforcement, provided they are acting within the course and scope of their employment or governmental duty and responsibility.

ARTICLE 25 - PROCUREMENT CODE: The Procurement Code, § 13-1-25 through § 13-1-199, NMSA 1978 as amended, imposes civil and criminal penalties for its violation. In addition, New Mexico Criminal Statutes impose felony penalties for illegal bribes, gratuities and kickbacks. Pursuant to the above, it is unlawful for any Contractor to engage in bribery, offering gratuities with the intent to solicit business, or offering or accepting kickbacks of any kind. All other similar act(s) of bribes, gratuities, and/or kickbacks are likewise prohibited.

ARTICLE 26 - PROPRIETARY INFORMATION: All documents, writings, electronic formats, drawings, designs, specifications, notes, project manuals, or related documents and other work developed in the performance of this Contract by the Contractor shall become the sole property of the County whether the activity for which they are developed is implemented or not. The Contractor shall provide the County with a complete set of all such proprietary information as requested by the County, but no later than the effective termination date of the contract. Contractor is strictly prohibited from reproducing, duplicating or printing any such proprietary information in any format for personal or monetary recognition, use or gain without the advance written permission of the County.

ARTICLE 27 - RECORD KEEPING AND AUDITS: The Contractor shall compile, maintain, and make available for inspection all records relating to the services to be provided under this Contract. These records shall be subject to inspection by the County or designated auditor. The County shall have the right to audit billings both before and after payment; payment under this Contract shall not foreclose the right of the County to be reimbursed any excessive or illegal payment amounts made to the Contractor during the term of this Contract. Pursuant to State of New Mexico General Records Retention requirements, Contractor will retain all original, source and supporting documents and records related to this contract for a minimum of six (6) years after the ending date of this contract.

ARTICLE 28 - RELEASE: The Contractor, upon final payment of amounts due under this Contract for work completed and accepted by the County, releases the County, its officers and employees from all payment claims for services performed under this Contract. The Contractor agrees not to bind the County to any obligation not assumed in this Contract by the County, unless the Contractor has express written County from the County Manager to do so, and then only within the limits of the expressed written County.

ARTICLE 29 - SEVERABILITY: If any clause or provision of the Contract is held to be illegal, invalid, or unenforceable by a court of competent jurisdiction, then it is the intention of the parties hereto that the remainder of the Contract shall remain in full force and effect. However, in the event that either Party can no longer reasonably perform pursuant to the remaining Contract terms, or if the purpose of the Contract can no longer be carried out by either Party, the Contract may be voided and no damages shall accrue to either party.

ARTICLE 30 - SOVEREIGN IMMUNITY:

Non-Governmental Entity: By entering into this Contract, the County and its "public employees" as defined in the New Mexico Tort Claims Act, NMSA 1978, Sections 41-4-1 through 41-4-29, as amended, do not waive sovereign immunity, do not waive any defense, and do not waive any limitations of liability pursuant to law. No provision in this Contract modifies or waives any provision of the New Mexico Tort Claims Act, *supra*.

Governmental Entity: By entering into this Contract, the County and the Governmental Entity Contractor do not waive sovereign immunity, do not waive any defense and do not waive any limitations of liability pursuant to law. No provision in this Contract modifies or waives any provision of the New Mexico Tort Claims Act, *supra*.

ARTICLE 31 - SUBCONTRACTING: This Contract is based on the personal skills and reliability of the Contractor as known by the County at the time of execution of this Contract. The Contractor shall not subcontract out any portion of the services to be performed under this Contract without the prior written approval of the County Manager and inclusion of that written approval in the official Contract File. The written approval shall minimally include disclosure of the name of the individual(s) to be contracted, a statement of the individual(s) qualifications and a justification of the request to subcontract.

ARTICLE 32 - TERMINATION: See Attachment A, Item 5.

ARTICLE 33 - THIRD PARTY BENEFICIARY: It is agreed between the Parties executing this Contract that it is not intended by any of the provisions of this Contract to create on behalf of the public or any member thereof the status of third party beneficiary nor to authorize anyone not a party to the agreement to maintain a suit based upon this Contract.

ARTICLE 34 - WAIVER: Any waiver by the County of any breach of any covenant, term, condition, or agreement in this Contract to be kept and performed by Contractor shall not be deemed or considered as a continuing waiver and shall not operate to bar or prevent County from declaring a default for any succeeding breach either of the same covenant, term, condition, or agreement or another. Any waiver by Contractor of any breach of any covenant, term, condition, or agreement in this Contract to be kept and performed by the County shall not be deemed or considered as a continuing waiver and shall not operate to bar or prevent Contractor from declaring a default for any succeeding breach either of the same covenant, term, condition, or agreement or another. All remedies afforded in this Contract shall be taken and construed as cumulative, that is, in addition to every other remedy provided herein or by law.

ARTICLE 35 - JURISDICTION AND VENUE: This Contract shall be governed by, construed, and enforced in accordance with the laws of the State of New Mexico. Any dispute or other legal action concerning this Contract, including any arbitration or litigation proceedings, shall be conducted in Sandoval County, New Mexico.

ARTICLE 36 - DUPLICATE ORIGINALS: This document shall be executed in no less than two (2) counterparts, each of which shall be deemed an original.

SIGNATURES:

IN WITNESS WHEREOF, the parties have caused this instrument to be executed by their duly authorized representatives.

SANDOVAL COUNTY:

CONTRACTOR

Chairman of County Board

Print Name and Title

Date: _____

Date: _____

Sandoval County Attorney

Date: _____

* * * * *

Contractor's NM Taxation and Revenue Department ID Number: _____

The following Attachments and Addenda have been reviewed and approved by the County Contract Officer or approved designee, and are incorporated into the terms and conditions of this Contract:

| Document Name | Approved | Comments | Notes |
|--|----------|----------|--|
| Attachment A - Scope of Work | | | Required all Contracts |
| Attachment B – Cost per Unit Service | | | Required all Contracts |
| Attachment C – Contribution Disclosure | | | Required all Contracts |
| Attachment D – Related Party Disclosure | | | Required all Contracts |
| Attachment E – Debarment Certification | | | Required all Contracts |
| Attachment F – Non Collusion Affidavit | | | Required all Contracts |
| Attachment G – Insurance Certificates | | | By Attachment A Specifications |
| Attachment H – 1. Business License(s) 2. Professional Licenses 3. Staff Resumes | | | 1. Required All Contracts 2. Required Licensed Professionals 3. Required all contracts |
| Attachment I – Procurement Method | | | Purchasing Dept. Determines |
| Attachment J - Other | | | Purchasing Dept. Determines |

Attachment A – Scope of Work

The following definitions apply to this Agreement and Scope of Work:

A. Terms shall be defined as listed in the New Mexico Solid Waste Regulations beginning at Section 20.9.1 of the NMAC. Some of these terms have been listed below with the applicable reference. In addition, some terms have been further defined in these regulations and have been listed below:

1. “Agreement” means this Agreement for Operation of Landfill, and all exhibits and attachments hereto.

2. “Applicable Laws” means the Facility’s permits and any statute, law, constitution, charter, ordinance, judgment, order, decree, rule, regulation, directive, standard or similar binding County, or a judicial or administrative interpretation of any of the same, which are in effect during the term of this Agreement, or are enacted or adopted, promulgated, issued or enforced by a governmental body, in any manner relating to this Agreement and the performance thereof.

3. “Asbestos Waste” has the meaning given it in Section 20.9.1.7(H) of the NMAC.

4. “Ash” has the meaning given it in Section 20.9.1.7(I) of the NMAC.

5. “County” means Sandoval County.

6. “Board” means the Sandoval County Commissioners.

7. “Cell” means a confined area engineered for disposal of Solid Waste.

8. “Change in Law” means any change in Applicable Laws enacted after the date of this Agreement. Said term as used herein shall not include changes in tax laws or workers compensation laws. However, in the event that a Federal, State or local County at any time on or after the date hereof, imposes a fee, charge or tax on landfills or the Landfill’s operations, any such fee, charge or tax shall be treated as a Change in Law and passed through by Contractor to the County. Any increase in the costs of operating the Landfill resulting from any Change in Law shall be passed through to the County and are subject to advance review and approval by the County, which approval shall not be unreasonably withheld.

9. “Chemical Waste” means any waste which, when wet, becomes chemically hazardous.

10. “City” means any one of the municipalities of Eunice, Hobbs, Jal, Lovington and Tatum who are municipal members of the County.

11. “Closing” means the time at which the Solid Waste Facility ceases to accept Solid Waste, and includes those actions taken to prepare the Facility for any necessary monitoring and maintenance after Closing.

12. “Closure” means the preparation for and implementation of all design, permitting, construction, monitoring, maintenance and financial responsibility assurance required by or reasonably associated with the Closure and post-Closure requirements set forth at Section 20.9.1.500 of the NMAC. Closure includes the cessation of operation of a Solid Waste Facility and the act of securing such a facility so that it will pose no significant threat to human health or the environment. This includes Closing and post-Closure long term monitoring, maintenance and financial responsibility. These items are the responsibility of the County.

13. “Commercial Hauler” has the meaning given it in Section 20.9.1.7(N) of the NMAC.

14. “Commercial Solid Waste” has the meaning given it in Section 20.9.1.7(O) of the NMAC.

15. “Construction and Demolition Debris” means materials generally considered to be not water soluble and non-hazardous in nature, including but not limited to steel, glass, brick, concrete, asphalt roofing material, pipe gypsum wallboard and lumber, from the construction or destruction of a structure as part of a construction or demolition project or from the renovation or maintenance of a structure. The term includes rocks, soils, tree remains, trees and other vegetative matter which normally result from land clearing or land development operations for a construction project. Mixing of Construction and Demolition Debris with other types of Solid Waste, including materials which are not from the actual construction or destruction of a structure, will cause it to be classified as other than Construction and Demolition Debris.

16. “Contractor” means XXXXXX.

17. “County” means Sandoval County, a political subdivision of the State of New Mexico.

18. “County Manager” means the chief executive officer of the County or his or her designee.

19. “Daily Cover” has the meaning given it in 20 NMAC 9.1, Section 402

20. “Effective Date” means the Month XX, 202X the date upon which the Contractor assumes operation of the Landfill under this Agreement.

21. “Facility” means the Landfill to be operated pursuant to this Agreement, which Landfill Facility is described in Attachment A, Item 1(A) of this Agreement.

22. “Hazardous Waste” means a Solid Waste which is defined by US EPA as identified by the NMED as Hazardous Waste in 40 CFR 260-268, the Resource and Conservation

Act, 42 U.S.C. 6901, *et seq.*, as amended, and the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. 9601, *et seq.*, as amended, or other applicable Federal or State laws and regulations. Hazardous Wastes will not be allowed in this Landfill.

23. “Holiday” means all Sundays and Memorial Day, 4th of July, Labor Day, Thanksgiving Day, Christmas Day and New Year’s Day shall not be Operating Days.

24. “Industrial Solid Waste” has the meaning given it in Section 20.9.1.7(AK) of the NMAC. No Liquid Waste from this category will be allowed in the Landfill. Industrial Solid Waste chemical items that are water-reactive will not be allowed in the Landfill.

25. “Inert Material” means clean debris which is virtually inert, which is not a pollution threat to groundwater or surface waters, is not a fire hazard, and is likely to retain its physical and chemical structure under expected conditions of disposal or use. The term includes brick, glass, ceramics and uncontaminated concrete, including embedded pipe or steel.

26. “Infectious Waste” has the meaning given it in Section 20.9.1.7(AL) of the NMAC. No Infectious Wastes will be allowed in the Landfill.

27. “Intermediate Cover” has the meaning given it in Section 20.9.1.400 of the NMAC.

28. “Landfill” or “Sanitary Landfill” has the meaning given it in Section 20.9.1.7(AM) of the NMAC. This reference includes the County Landfill described in Attachment A, Item 1(A) of this Agreement.

29. “Leachate” means liquid that has passed through or emerged from Solid Waste and may contain soluble, suspended or miscible materials.

30. “Life of the Facility” means the usable life of the Landfill, together with any horizontal or vertical expansions thereof. This 338 acre site is intended to have a 100-year life.

31. “Lift” has the meaning given it in Section 20.9.1.7(AP) of the NMAC.

32. “Liquid Waste” has the meaning given it in Section 20.9.1.7(AR) of the NMAC.

33. “NMAC” means New Mexico Administrative Code.

34. “NMED” means the State of New Mexico Environment Department.

35. “NMSA” means the New Mexico Statutes Annotated 1978.

36. “On-Site” means on the same or geographically contiguous property, which may be divided by a public or private right-of-way.

37. “Operating Day” means any calendar day during which the Landfill is operating and is open for receipt of waste from County and contract haulers, private commercial haulers and/or the public. Normal Operating Days shall be six (6) days per week, Holiday’s excluded. If a Holiday falls on a Sunday, the following Monday shall not be an Operating Day. The County shall review petitions for additional non-operation days from the Contractor. When operating conditions mandate an emergency closure of the landfill, Contractor will provide notice to the County by phone.

38. “Operating Years” means, with respect to the initial Operating Year, the period commencing on the Effective Date and ending on Month XX, 202X, and thereafter the twelve-month (12) period commencing January 1st and ending the following December 31st.

39. “Performance Bond” means the form of security approved by the County and furnished by the Contractor as a guarantee that it will perform its obligations hereunder and pay any all bills from subcontractors and suppliers in accordance with this Agreement. The Bond shall be issued by a Surety or Financial Institution authorized to conduct business in the State of New Mexico.

40. “Permit” means any and all permits, together with all final and non-appealable governmental approvals required as conditions to the performance of the Contractor’s obligations hereunder.

41. “Processing” means any technique designed to change the physical, chemical or biological character or composition of any Solid Waste so as to render it safe for transport; amenable to recovery, storage or Recycling; or safe for disposal. This does not include composting or transformation.

42. “Recyclable Materials” has the meaning given to it in Section 20.9.1.7(BK) of the NMAC.

43. “Recycling” has the meaning given to it in Section 20.9.1.7(BL) of the NMAC.

44. “RFP” refers to the “Sandoval County Landfill, Request for Proposals for Landfill Operations Services RFP number FY23-SCPW-XX” dated September XX, 2022, Addendums, clarification and the Proposal Response from the Contractor to operate the Landfill as a municipal Solid Waste Landfill, the terms and provisions of which are incorporated into this Agreement.

45. “Scrap Tire” means a tire which is no longer suitable for its originally intended purpose, which is to absorb shock and provide traction in a motor vehicle; or is not usable as a casing in a retread tire because of wear damage or defect.

46. “Site” means the area of land described and outlined in Section 1.3, Figure 1 of the RFP.

47. “Sludge” has the meaning given to it in Section 20.9.1.7(BT) of the NMAC. No Liquid Waste from this category will be allowed in the Landfill. Sludge may not be disposed of in a location within ten (10) feet of the liner, or within twenty (20) feet of an outside wall.

48. “Solid Waste” has the meaning given to it in Section 20.9.1.7(BV) of the NMAC.

49. “Solid Waste Facility” has the meaning given to it in Section 20.9.1.7(BX) of the NMAC.

50. “Special Wastes” means any waste which is defined in Section 20.9.1.7(BZ) of the NMAC. No Liquid Waste from this category will be allowed in the Landfill. No Infectious Wastes or Chemical Wastes will be allowed in the Landfill.

51. “Subcontractor” means an individual, firm or corporation having a direct contract with the Contractor or the County or with any other Subcontractor for the performance of a material portion of the work at the Site.

52. “Surety” means any of the issuers of the Performance Bond guaranteeing the full and proper performance and payment for the work governed by this Agreement. The Surety or Financial Institution shall be authorized to conduct business in the State of New Mexico.

53. “Ton” means two thousand (2,000) pounds of weight.

54.

55. “Unacceptable Waste” means any waste which cannot legally be disposed of at the Landfill under any Permits or Applicable Laws or which is likely to cause threat or harm to Contractor’s personnel or equipment.

56. “White Goods” means inoperative refrigerators, ranges, washers, water heaters, freezers and other similar domestic and commercial appliances.

57. “Working Face” means that portion of a landfill where waste is discharged, spread and compacted prior to placement of Daily Cover.

Item 1. Operation of Landfill

A. Operation of Landfill. The Contractor on behalf of the County shall operate the Sandoval County Landfill (the “Landfill”) in compliance with all New Mexico Environment Department (the “NMED”) regulations that are in effect from time to time during the contract period. The Contractor shall meet or exceed all applicable Federal, State and local rules and regulations at all times in the operation of the Landfill. All variances are to be approved, in advance, by the County.

B. Equipment. The Contractor shall furnish all equipment needed to carry out its responsibilities for the operation of the Landfill as described in Table 2.1 on Page 7 of the RFP,

however, this equipment must include at minimum a landfill compactor that is capable of providing waste compaction density ratio of 1,200 pounds per cubic yard (i.e., a Caterpillar 826 or equivalent). The Contractor's proposed equipment list is included as part of their Technical Proposal.

C. Environmental Monitoring. The Contractor shall provide for environmental monitoring in accordance with Table 2.3 of the RFP. The Contractor shall be responsible for all associated costs; however, if the requirements of environmental monitoring change due a Change of Law or some regulatory interpretation, then the Contractor shall receive additional compensation in accordance with either the Special Services or Change of Law provisions contained in this Agreement.

The Contractor shall meet all applicable Federal, State and local rules and regulations at all times during the operation of the Landfill, as it relates to services provided by Contractor hereunder. This data and information shall be provided to the County as it becomes available.

D. Financial Assurances. The County shall be responsible for all financial assurances require by the NMED or any other governmental law, statute or regulation requiring bonds, trust funds or otherwise to assure post-closure care, environmental contamination or otherwise.

E. Closure. The Landfill will be closed in phases with incremental closure as described in Section 2.3.1 of the RFP ongoing during the operation of the Landfill and final closure activities being completed upon cessation of Landfill use. Once a cell has been filled with solid waste, it will be covered with the required amount of soil and, in time, vegetation will be applied as required in this Agreement. Enough soil must be available or stockpiled to allow for compliance with intermediate, drainage and final layer requirements. Soil should be located as proximately as possible to the soon to be closed areas. By doing so, soil transportation and placement costs can be kept to a minimum.

Item 2. Landfill Operation Requirements

A. Scope of County Responsibility. The County shall, at its own expense, operate the Scale House and perform the tasks listed below unless the County selects Contractor to operate the Scale House:

1. Receiving and recording each waste delivery vehicle in accordance with NMED Standards.
2. Supervision to ensure operation in conformance with health and safety procedures.
3. Recordkeeping and reporting performed by SCLF personnel.
4. SCLF will coordinate with the awarded contractor to assure the Landfill is in compliance with regulatory requirements and any revisions to the Plan of Operation.

5. Providing compliance services for the receipt of approved “special wastes” streams, including but not limited to manifest management, conformance with disposal management plans, waste screening, and special handling.

6. Conducting routine waste screening at the face, in accordance with the approved Permit Application and current NMED Solid Waste Rules; with required recordkeeping/reporting (See RFP Attachment 4 Plan of Operations).

7. Provide all billing, accounts receivable, and collection efforts related to customers of the Landfill.

8. Provide routine scale maintenance that includes monthly clean-out under scales and annual calibrations.

9. Provide the necessary computers and software to interface with the existing scale and office infrastructure, with appropriate recordkeeping and reporting capabilities.

10. Coordinating with community waste clean-up and recycling initiatives.

11. Development of a Waste Diversion Plan to promote the diversion of materials presented for disposal via recycling or processing (i.e., green waste, C&D, etc.). Management and operation of the diversion effort.

12. Notification to routine customers by email of landfill shutdown(s).

13. Ownership of and insurance on the site and capital improvements.

14. Designating excavation, fill, and stockpile areas; and incremental closure units.

15. Oversight of the Landfill.

16. Establishing gate fees (\$/ton) and hours of operation.

17. Approving acceptance of any new “special wastes” streams (as defined by NMED) or significant changes to MSW types or rates of receipt.

18. New capital improvements approved by the County (i.e., extension of wind fencing).

19. Planning and installation of new cell liner and leachate collection systems.

20. Renewal of the NMED Solid Waste Facility Permit (planned 2017 submittal).

21. Providing NMED-required Financial Assurance per the approved Permit and 20 NMAC 9.1 requirements.

22. NSPS compliance and reporting (as applicable).

B. Scope of Contractor Responsibility. The Facility shall be open for the receipt of Solid Waste during the Operating Days and Operating Hours set forth herein.

1. Except as otherwise provided for in Item 2(A) above (such obligations being the responsibility of the County), Contractor shall at its expense perform all operations of the Facility including, but not limited to, placement and compaction of Solid Waste with a full time operator at the open face, excavation of the next cell, transport and placement of On-site borrow material as Daily Cover and Intermediate Cover, Leachate collection, temporary storage and conveyance to an approved point of off-site disposal; gas control to the extent necessary to eliminate nuisance odors; On-site erosion control measures and stormwater management facilities; control of On-site fires; required maintenance of equipment, incidental operations and maintenance; On-site and off-site litter control; Landfill road maintenance and repair; culvert maintenance and repair (if present); ground water monitoring, if required, preparing and/or repairing berms; handling of unauthorized or Unacceptable Waste that may get into the Landfill; providing information or responding to NMED inquiries; undertaking public information/education activities as required; and maintaining or making repairs to liners, gas monitoring equipment or other environmental monitoring equipment or devices that may be present at the Landfill.

2. The Contractor shall at its expense provide all superintendence; labor, including operators, spotters, maintenance mechanics and incidental labor; and materials, equipment, tools, appliances, supplies and incidentals required for operation of the Facility. The Contractor shall be responsible for any costs or other liability of its subcontractors at the Facility. All materials and equipment provided by the Contractor shall be in good working order. The Contractor shall, if required, furnish satisfactory evidence as to the kind and quality of materials and equipment provided.

3. The Contractor shall have access to office space in the maintenance building for use by the Contractor and the County's Project Manager. The Contractor shall provide routine maintenance for the maintenance building while the County will be responsible for structural and capital improvements.

C. Unacceptable Waste.

1. Neither the Contractor nor the County shall accept any Unacceptable Waste. The Contractor and the County shall utilize its utmost efforts to prevent the receipt of such waste at the Facility. In the event, however, that Unacceptable Waste is received at the Facility, the party which identifies such Unacceptable Waste shall immediately contact the NMED and coordinate the removal with it. If required by the NMED, the Contractor and the County shall coordinate the disposal of such Unacceptable Waste in the least expensive manner available and the County shall bill the transporter for the actual cost of disposal together with a surcharge of one hundred percent (100%).

2. The Contractor or the County may require laboratory analysis of a sample of any waste proposed for delivery to the Facility when the Contractor or the County is in reasonable doubt concerning the nature or composition of the waste. Said analysis shall be performed by a NMED-approved laboratory chosen by the County at the expense of the

transporter. Said waste shall be held On-site during performance of the said analysis unless other provisions are agreed to by the County and the Contractor. If the transporter refuses to cooperate with the above procedure, the neither the Contractor nor the County shall accept the waste in question at the Facility.

D. Special Wastes. The Landfill is designed and permitted to accept many Special Wastes and Industrial Solid Wastes in a standard landfill municipal waste cell. All Special Wastes and Industrial Solid Wastes must not have any free liquids and must pass the paint filter test. No Infectious Waste or Chemical Waste will be allowed in the Landfill.

1. The Landfill is designed and permitted to allow the County to dispose of some other Special Wastes including petroleum contaminated soils up to the concentration allowed under NMED regulation.

2. For disposal of packing house or killing plant offal, sludge (except compost which meets the provisions of 40 CFR 503), or food and related product/by-product types of Special Wastes within the County's region, the Contractor shall accept and dispose of these wastes in accordance with the terms of the Permit and as agreed with the County. The Contractor shall not accept any Special Waste or Industrial Solid Waste unless it is in compliance with the terms and conditions of this Agreement, the Permit and Applicable Laws.

E. Scrap Tires. The Contractor shall accept Scrap Tires and shall dispose of them in accordance with the terms of the Permit and as agreed with the County. The County shall make arrangements for Tires to be picked up regularly at the Landfill and hauled off-site. The County agrees to attempt to obtain grant funding for acquisition of specialized Scrap Tire processing equipment to improve the Landfill's tire disposal process.

F. White Goods. The County shall make arrangements for White Goods to be picked up regularly at the Landfill and hauled off-site. The Contractor shall accept White Goods and shall provide a separate area on the Landfill for the White Goods to be stored neatly until removed. Provisions will be made by the County for the certification and proper removal of Freon from the White Goods in accordance with all NMED regulations.

G. Cooperation with County and Other Contractors. In the performance of its operating responsibilities, the Contractor will need to coordinate its operations with the operations of County-contracted waste haulers. The Contractor shall be responsible for devising, implementing and ensuring coordinated methods for accommodating complete, effective and efficient ingress, On-site movement, temporary storage (as required), tipping and egress of waste hauling vehicles.

H. Right of Access. The Contractor shall provide right of access at any time during routine operations to the County's constituent members, its Public Works Director and his or her designees, personnel of public safety agencies (as required), and representatives of City, County, State and Federal regulatory agencies with jurisdiction. The Contractor shall also provide means for access for such persons during non-Operating Hours in the event of emergencies. Emergency access provisions shall be subject to prior review and approval by the County.

I. Safety and Security. The Contractor shall provide for On-site personal safety of its personnel, operators of waste haulers, County and regulatory agency inspectors, and the public. The Contractor may require that all persons entering the Site comply with reasonable safety rules established by the Contractor. The Contractor shall provide means of controlling access to the Site and Site security to prevent unauthorized access and clandestine dumping. Safety and security measures shall be detailed in the Contractor's operations plan as submitted for approval prior to initial operations and in any plan modifications as may subsequently be submitted for approval. Means provided by the Contractor shall be in conformance with the approved operating plan at all times. Access to the Landfill shall be limited. Any individual, be it an inspector, visitor or other person, shall always be accompanied by the Contractor's Manager of Landfill Operations or other designated Landfill representative.

J. Employee and Public Safety. The Contractor shall take all necessary precautions for the safety of its employees and shall comply with all applicable provisions of Federal, State, local and municipal safety laws and building codes, to include OSHA and requirements of the General Liability carrier, to prevent accidents or injury to persons which might arise out of the performance of Contractor's obligations under this Agreement. The Contractor shall take all necessary safeguards for the protection of both its personnel and the public. The Contractor shall be responsible for the safety and protection of its equipment and of its employees, and for any injury, accident or damage to its equipment arising out of the performance of its obligations under this Agreement. The Contractor shall notify the County in writing within twenty-four (24) hours of any reportable accident or injury occurring On-site.

K. Customer and Community Relations. The County shall respond initially to all customer and community inquiries or complaints, including those associated with the County's operations at the Landfill, including, without limitation, the operation of the Scale House.

L. Records and Reports.

1. The County shall maintain On-site readily retrievable for reference and in clean and usable condition at least one (1) copy of: NMED-approved Permit drawings, specifications, reports, permits and operating plans; the prior thirty-six (36) months' operations reports; and correspondence with the Contractor and regulatory agencies regarding Facility operations.

2. The Contractor shall maintain adequate records to justify all charges, expenses and costs incurred in performing the work under this Agreement for at least three (3) years after the expiration or earlier termination of this Agreement. The County shall have access to such books, records and documents as required in this Section for the purpose of inspection or audit during normal business hours and upon reasonable prior notice.

3. As part of the normal operation of the Facility, the Contractor, to the extent of the services provided by the Contractor hereunder and excluding any pre-existing conditions, shall be responsible for compliance with, and performing corrective action for, a Solid Waste Facility Inspection Report conducted by the NMED. The Contractor shall furnish the County with a copy of all reports submitted to the NMED and with copies of inspection reports with corrective

action. The County shall be responsible for compliance with all regulatory reporting, including the Annual Solid Waste Facility Report to NMED.

M. Notification of Operating Deficiencies. The County shall notify the Contractor in writing when aspects of the Contractor's operations are observed by the County to be in violation of terms of this Agreement, the Permit or of Applicable Laws. However, the County's failure to notify the Contractor of any specific item of non-performance or violation shall not serve to relieve the Contractor of its responsibility to operate the Facility in accordance with this Agreement and in compliance with Applicable Law and the Permits. Following notification of operating deficiencies, the Contractor shall respond to the County within forty-eight (48) hours of its intentions and time schedule to correct the deficiency. If deficiencies are not corrected in a timely manner as required under this Agreement, dispute resolution or, if necessary, termination procedures may begin.

N. Financial Responsibility; Closure and Post-Closure. The County shall be responsible for the costs and expenses of Closure and post-Closure of the Facility (including gas management). The County shall comply with all other Applicable Laws concerning the financial responsibility for expenses and costs associated with the Closure and post-Closure of the Facility.

O. Organization Employment Disclaimer. The Contractor hereby agrees that no person supplied by it in the performance of the Agreement shall be an employee of the County, and further agrees that no rights of the County's rules accrue to any such person. The Contractor shall have the total responsibility for all salaries, wages, bonuses, retirement, withholdings, workers compensation, other benefits and taxes and premiums appurtenant thereto of its employees in the performance of this Agreement.

P. Charges, Levies or Fees. The Contractor shall have no liability under this Agreement for the payment of any charges, levies or fees of any kind related to the operation of the Landfill, and the County shall reimburse the Contractor for any such obligations imposed upon the Contractor.

Q. Use of Subcontractors.

1. The Contractor shall not employ any Subcontractor or other person or organization (including those who are to furnish the principal items of materials or equipment) who are providing material services or equipment on an annual basis in excess of Five Thousand and 00/100 Dollars (\$5,000.00), whether initially or as a substitute, against whom the County may have a reasonable objection, or who may be listed on the United States Department of Labor or the New Mexico Construction Industries Division list of debarred contractors. Acceptance of a Subcontractor by the County shall not constitute a waiver of any right of the County to reject defective work or work not in compliance with this Agreement.

2. The Contractor shall be responsible for all acts and omissions of Subcontractors and organizations directly employed by the Contractor and of persons and organizations for whose acts any of them may be liable to the same extent that it is responsible for the acts and omissions of persons directly employed by it. Nothing in this Agreement shall create any contractual relationship between the County and a Subcontractor or other person or

organization having a direct contact with the Contractor, nor shall it create any obligation on the part of the County to pay any Subcontractor or organization any monies due the Subcontractor unless it is in accordance with the terms of this Agreement. The Contractor agrees to bind specifically every Subcontractor to the applicable terms and conditions of this Agreement for the benefit of the County. The County shall be responsible for all acts and omissions of Subcontractors and organizations directly employed by the County and of persons and organizations for whose acts any of them may be liable to the same extent that it is responsible for the acts and omissions of persons directly employed by the County.

R. Resolution of Disputes. If disputes arise between the Contractor and the County regarding Landfill operations, one (1) representative from each entity will be appointed to resolve the dispute. The intent will be to resolve disputes at the lowest level possible prior to exercising other rights available to the parties under this Agreement or Applicable Law.

Item 3. Warranties and Representations

A. General Statement. Each party warrants, represents and covenants, as of the date of this Agreement, the following:

1. There is no decree, judgment, order or claim of any kind threatened or in existence enjoining or restraining the party from taking any action required under this Agreement.

2. Each party agrees not to divulge, communicate or use, to the detriment of the other party, or for the benefit of any other person or persons, or misuse in any way, any confidential or sensitive information or trade secrets of the other party's business, including but not limited to know-how or financial or technical data in conjunction with the Landfill's operations, except as may be required by Applicable Laws.

3. Each party warrants that this Agreement is valid and binding on it and is an obligation enforceable against it in accordance with the terms hereof.

4. The terms of this Agreement shall be subject to the regulations of the NMED and the New Mexico Procurement Code. The work covered under this Agreement has been procured properly with the RFP process and the Contractor is free to hire Subcontractors and procure materials on a "best available price" basis without further bidding, but subject to final review and approval by the County.

5. Each party warrants that the officer or official executing this Agreement has been duly authorized to execute this Agreement and bind such party to the terms and conditions hereof by the requisite action of both the County and the Contractor's Board of Directors.

B. Specific Representations by Contractor.

1. The Contractor specifically represents to the County that it is a wholly owned subsidiary of Waste Connections, Inc., a Delaware corporation.

2. The Contractor also specifically represents to the County that it is the operator of the XXXX Landfill which provides solid municipal waste landfill services in the

XXXXXX, New Mexico region. This experience qualifies Contractor to provide the services required by the County described in this Agreement, as does the Contractor's previous experience in operating the Landfill during the period immediately preceding the RFP process.

3. The Contractor specifically represents that: (i) none of the representations and warranties by the Contractor in this Agreement, including any exhibits hereto; and (ii) none of the information contained in the Contractor's Proposal made in response to the RFP is false or misleading in any material respects or omits to state any material fact necessary to make the statements herein and therein not misleading.

Item 4. Special Conditions

A. Performance Bond. The Contractor shall provide a Performance Bond in an amount of not less than One Million Dollars (\$1,000,000) to guarantee its performance under the terms and provisions of this Agreement. The Performance Bond shall be in the form of an annually renewable surety bond executed in favor of the County in the event of default, or an irrevocable letter of credit in favor of the County opened by a financial institution approved by the County, and authorized to conduct business in the State of New Mexico. In the event of termination or default of this Agreement under the provisions hereof, the surety shall have the right to secure alternative disposal services, if a vendor acceptable to the County can be provided by the surety prior to the termination date. The Performance Bond shall be provided for the initial year and renewed for each subsequent year of the term of this Agreement and the amount adjusted annually, if required, for the estimated amount of fees payable under the Agreement for that subsequent year.

B. Compliance with Law and Regulations. The Contractor shall comply with all Federal, State and local laws, regulations and ordinances pertaining to this Agreement, including all motor vehicle laws and public nuisance laws, whether currently in effect or hereafter adopted, and annually shall certify such compliance with all applicable Federal, State and local laws and regulations, whether currently in effect or hereinafter adopted, as enforced at the time of such certification.

C. Hours of Operation. Hours of operation of the Landfill shall be determined from time to time by the parties and generally shall be from 7:30 a.m. to 5:30 p.m., Monday through Saturday during Mountain Daylight Time, and 7:30 a.m to 4:30 p.m., Monday through Saturday during Mountain Standard Time. The Landfill will be closed on all Sundays and ten Holidays.

D. Maintenance. The Contractor shall be solely responsible for the maintenance of all equipment and for all structures which it constructs and uses in the operation of the Landfill. Detailed maintenance schedules and records shall be kept and subject to review by the County.

E. Litter Control. The Contractor shall use operational procedures necessary to minimize blowing litter from the area including dusting the open face with dirt periodically if needed. The Contractor shall provide daily inspection and litter pickup for the Landfill, access road, highway and other On-site or off-site areas to the reasonable satisfaction of the County.

F. Ownership of Improvements. Any and all assets affixed to the Landfill property by the Contractor shall revert to the County as owners of the Landfill property at the time of expiration

or earlier termination of this Agreement. This provision shall apply to the scale house and scale, administration building, maintenance building, utility improvements, water tanks, fences and other fixed items necessary to operate the Landfill. This provision shall not apply to equipment owned by the Contractor that was not reimbursed by the County under this Agreement.

G. On-Site Manager. The Contractor shall, for the term of this Agreement, appoint an On-site Manager as a representative authorized in writing, capable of making normal daily operational and management decisions. The limits of their County, to include financial decisions, shall be the subject of a memorandum of understanding and will be added to this Agreement. All changes in County or the individual appointed will be communicated to all parties in writing.

H. Emergencies. In emergencies affecting the safety of persons or property at the Site or adjacent thereto, the Contractor, without special instruction or authorization from the County, is obligated to act, at its discretion, to prevent damage, injury or loss. It shall give the County prompt written notice of any significant changes in the work performed under the Agreement or deviations from the Agreement caused thereby and, if a Change Order is required, it shall be issued to cover the changes and deviations involved.

Item 5. Termination

A. Termination for Cause. In the event the Contractor has breached any provision of this Agreement, the County may give the Contractor written notice thereof and of its intent to terminate this Agreement as a result of such breach. The Contractor shall have thirty (30) days beyond the date of its receipt of the County's notice to correct those items specified in the notice. If the breach **is** properly corrected, the County's right to terminate for the cause stated in the notice shall terminate. In the event the County has breached any provision of this Agreement, the Contractor may give the County written notice thereof and of its intent to terminate this Agreement as a result of such breach. The County shall have sixty (60) days beyond the date of its receipt of the Contractor's notice (fifteen (15) days in the event of non-payment of amounts due and owing) to correct those items specified in the notice. If the breach **is** properly corrected, the Contractor's right to terminate for the cause stated in the notice shall terminate.

B. Removal of Equipment Upon Termination. Upon termination for cause (i.e., termination other than termination at the end of the term of this Agreement), the Contractor shall not remove from the Site any of the equipment normally used in the performance of its obligations hereunder for a period of ninety (90) days or until the County makes alternative arrangements for the performance of such obligations, whichever occurs first. During any such period, the County will incur a rental fee of one and one-half percent (1.5%) monthly of the appraised value of the equipment as determined by a certified equipment appraiser and shall apply such fee to any damages, determined by lawsuit or by the agreement of the parties, to be due to the County by Contractor or, alternatively, shall refund such amount to the Contractor. Further, the County shall be responsible for all ordinary maintenance on such equipment during the period of its use.

C. County's Rights Upon Contractor's Termination. In the event of termination by the Contractor pursuant to subsection A above, the County may take over, or arrange to have another party take over, the operations of the Landfill at any time during the cure period specified

in subsection A above (i.e., the County does not have to wait until the end of such period to arrange an orderly take over of the Landfill operations).

Item 6. Additional Insurance Requirements

A. All insurance policies required in this Agreement shall be written by insurance companies authorized to conduct business in the state of New Mexico and maintain throughout the term of this Agreement a General Policy Holders Rating in the most recent edition of A. M. Best's Insurance Reports of size category VII or larger and a rating classification of A- or better (A-VII). In addition all insurance limits and coverage required herein may be provided by County through any combination of Primary, Umbrella, Excess, deductibles or self-insurance coverage. Any deductible on any insurance policies furnished by County shall be for the account of County.

B. The County shall carry such environmental insurance as it, in its sole determination, deems necessary and appropriate to protect itself and the Contractor for liability arising out of the operation of the Landfill. Contractor shall be named as an "additional insured" on such policy.

C. Should the State of New Mexico require the Contractor, as operator of the Landfill, to provide any environmental insurance or other financial assurance relating to the Landfill, the cost thereof shall be borne by the County.

D. During the term of this Agreement, the County shall not reduce any existing insurance coverage which it currently carries and which affords any protection to the Contractor without notifying the Contractor of the reduction of such coverage. County shall maintain the following minimum coverage throughout the term of this Agreement:

1. Workers' Compensation Coverage. The County shall procure and maintain such insurance as will protect County and Contractor from claims by employees of County under the New Mexico Workers' Compensation Act and from claims for bodily injury, death or property damage which may arise from the performance of services under this Agreement, by employees of County. County shall furnish Contractor with a certificate of insurance in compliance with the workers' compensation laws of the State of New Mexico and maintain a current certificate throughout the entire term of the Agreement. County shall also procure a waiver such that the workers' compensation carrier does not seek subrogation against the Contractor.

2. Motor Vehicle Coverage. County shall carry a commercial or comprehensive automobile liability insurance policy protecting itself and Contractor against liability for vehicle operations by County with limits of not less than Two Million Dollars (\$2,000,000) each person, Two Million Dollars (\$2,000,000) each accident, and One Million Dollars (\$1,000,000) property damage. A current certificate of insurance shall be maintained with Contractor during the entire term of the Agreement. In addition, Contractor shall be named as an "additional insured" on such policy.

3. General Liability Coverage. County shall carry a commercial or comprehensive general liability insurance policy protecting itself and Contractor against liability

for its operations other than vehicular, with a combined single limit of at least Two Million Dollars (\$2,000,000). A current certificate of insurance shall be maintained with Contractor during the entire term of the Agreement. In addition, the Contractor shall be named as an “additional insured” on such policy.

Item 7. Indemnification

A. Indemnity by Contractor. The Contractor agrees to indemnify and hold harmless the County, its members, employees, agents, successors and assigns from and against any and all liabilities, penalties, fines, forfeitures, demands, claims, causes of action and suits, and costs and expenses incidental thereto including costs of defense, settlement and reasonable attorneys’ fees, which any or all of them may hereinafter suffer, incur, be responsible for or pay out as a result of bodily injuries, including death, to any person, damage, including loss of use, to any property, public or private, or contamination of or adverse effects on the environment, to the extent caused by (a) the breach of this Agreement by the Contractor, (b) the negligent acts or omissions of the Contractor or its employees or other persons engaged by or under the control, supervision or direction of the Contractor in the performance of the Contractor’s obligations under this Agreement or (c) Contractor’s violation or alleged violation of any Applicable Laws in the performance of its obligations under this Agreement. This paragraph shall survive the expiration or earlier termination of this Agreement.

B. Indemnity by the County. To the extent allowed by Law, the County agrees to indemnify and hold harmless the Contractor, its employees, agents, successors and assigns from and against any and all liabilities, penalties, fines, forfeitures, demands, claims, causes of action and suits, and costs and expenses incidental thereto including costs of defense, settlement and reasonable attorneys’ fees, which any or all of them may hereinafter suffer, incur, be responsible for or pay out as a result of bodily injuries, including death, to any person, damage, including loss of use, to any property, public or private, or contamination of or adverse effects on the environment, to the extent caused by (a) the breach of this Agreement by the County, (b) the negligent acts or omissions of the County or its employees or other persons engaged by or under the control, supervision or direction of the County in the performance of the County’s obligations under this Agreement, (c) the County’s violation or alleged violation of any Applicable Laws in the performance of its obligations under this Agreement or (d) any acts, omissions or operations of any persons in any way related to the Site prior to the date hereof or following the expiration or earlier termination of the Agreement, except as may be provided in any previous operating agreement pertaining to the Site entered into by the County and the Contractor.

C. Defense of Actions. The indemnitor shall, at its own expense, appear, defend and pay all attorney’s fees and costs and other expenses arising out of its actions or incurred in connection therewith, and if any judgment shall be rendered against the indemnitee other party in any such action, the indemnitor shall, at its own expense, satisfy and discharge the same, to the extent allowed by Law. The parties agree that and understand that any Performance Bond or insurance protection required by this Agreement and otherwise provided by a party shall in no way limit its responsibility to indemnify, keep and save harmless and defend the other party as herein provided, to the extent allowed by Law.

D. Party Entitled to Undertake Own Defense. If a party elects on its own behalf and in its self-interest to incur costs and expenses associated with intervening in any action arising out of this Agreement, or in maintaining an action in defense of any proceeding brought against it relating to alleged violations of applicable law, rules, regulations, permits, orders or similar requirements, then it may do so at its own expense. The responsible party shall pay for any penalties or judgment entered against the other party as a result of such action(s); provided that in the event of a settlement of any such action in which a party has undertaken its own defense, the responsible party's indemnification obligations shall be subject to its prior written consent to any such settlement.

E. Indemnities Not to Abrogate Warranties. The indemnities set forth herein shall not be construed so as to weaken any express warranties contained in this Agreement.

Item 8. Force Majeure

During the term of this Agreement, either party's performance hereunder may be suspended, and its obligations hereunder excused in the event and during the period that such performance is rendered impossible by a cause or causes beyond the reasonable control of such party unless such cause or causes are a result of action or non-action by such party. Such causes shall include, but not be limited to: acts of God; acts of war; riot; fire; explosion; accident; flood; sabotage; lack of adequate rule, Fuel & Oil, power or raw materials; injunctions or restraining orders; the failure of any governmental body to issue or grant, or the suspension or revocation or modification of, any license, permit or other authorization necessary for the construction and/or operation envisioned by this Agreement; national defense requirements; labor strike; lockout; or injunction.

A. Item 9. Construction. Both parties acknowledge that they have had meaningful input into the terms and conditions contained in this Agreement. Therefore, any doubtful or ambiguous provisions contained herein shall not be construed against the party who physically prepared this Agreement.

B. Partial Invalidity. If any term, clause or provision of this Agreement or the application thereof to any person or circumstances shall, to any extent, be illegal, invalid or unenforceable under present or future laws effective during the term hereof, then it is the intention of the parties hereto that the remainder of this Agreement, or the application of such term, clause or provision to persons or circumstances other than those to which it is held illegal, invalid or unenforceable shall not be affected thereby, and it is also the intention of the parties hereto that in lieu of such term, clause or provision that is illegal, invalid or unenforceable there be added as a part of this Agreement a term, clause or provision as similar in terms to such illegal, invalid or unenforceable term, clause or provision as may be possible and be legal, valid and enforceable, so long as the basic intent and object of this Agreement is not undermined by the elimination of the objectionable provision(s).

C. Survival. All covenants, agreements, warranties and representations and remedies provided herein shall survive the termination of this Agreement.

D. County to do Business. The Contractor hereby represents and warrants that it has and will continue to maintain all licenses and approvals required to conduct business, and that it will at all times conduct its business in a reputable manner.

E. Truth-In-Negotiation Certificate. The signing of this Agreement by the Contractor shall act as the execution of a truth-in-negotiation certificate, certifying that the wage rates and costs used to determine the compensation provided for in the Agreement are accurate, complete and current as of the date of the Agreement.

F. Federal and State Tax. The Contractor shall not be exempted from paying sales tax to its suppliers for materials used to fulfill obligations with the County, nor is the Contractor authorized to use the County's Tax Exemption Number in securing such materials.

G. Arrears. The Contractor shall not pledge the County's credit or make it a guarantor of payment or surety for any agreement, contract, debt, obligation judgment, lien, or any form of indebtedness. The Contractor further warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms of this Agreement.

H. Conduct of Contractor.

1. The Contractor shall require its employees to dress in uniforms which bear the names of the Contractor and of the employee clearly visible and to maintain a clean and neat appearance to the extent the job will permit. Provisions will be made for uniform dress of temporary employees and new hires.

2. The Contractor shall require its employees to serve the public in a courteous, helpful and impartial manner. All Contractor personnel in both the field and the office shall refrain from belligerent behavior and profanity. Correction of any such behavior and language shall be the responsibility of Contractor. No employee shall disturb or otherwise handle or move County property that is unnecessary to the proper execution of his or her duties. Care shall be taken to prevent damage to County property.

I. Independent Contractor Relationship. The Contractor is, and shall be, in the performance of all work services and activities under this Agreement, an independent contractor and not an employee, agent or servant of the County. All persons engaged in any part of the work services performed pursuant to this Agreement shall at all times, and in all places, be subject to the Contractor's sole direction, supervision and control. The Contractor shall exercise control over the means and manner in which it and its employees perform its obligations hereunder, and in all respects the Contractor's relationship and the relationship of its employees to the County shall be that of an independent contractor and not as employees or agents of the County. Neither party to this Agreement has the power or County to bind the other party in any promise, agreement or representation other than specifically provided for in this Agreement.

Attachment B – Cost Per Unit of Service

Fee Arrangements

A. Established Rate Schedule for Landfill Operations. The County shall pay the Contractor the fees and other charges described below:

1. The County shall pay the Contractor a fee based on Tons per day which are deposited in the Landfill in accordance with the rate schedule set forth on the attached Rate Schedule. These fees payable to the Contractor are to be applied to all Solid Waste disposed of at the Landfill.

2. All applicable taxes shall be collected and paid by the appropriate entities in accordance with State law. The applicable fees listed on the attached Rate Schedule shall have the applicable tax added and included upon the invoice at time of billing for payment by the County.

3. Mass Excavation. There will be no separate measurement or payment for work performed by the Contractor for Landfill operation items including, but not limited to, excavation of soil from the adjacent cells for the placement of Daily or Intermediate Cover, or intermediate cell vegetation. These items are considered incidental to the operation of the Landfill being paid for at the base gate rate fee for the amount of Tons per day disposed of. However, from time to time the County may direct the Contractor to excavate and stockpile soils over and above the quantities that is needed for Daily and Intermediate Cover. In such instances the County will pay the Contractor a rate of **\$3.00 per cubic yard** of excavated soil. In these instances the Contractor shall measure the quantity of soil that has been added to the stockpile(s) during the previous period and submit a separate invoice to the County for this Mass Excavation. This price is limited to the volume of excavation that the Contractor can complete during normal working hours without adding additional operating staff and/or equipment. If the County desires to utilize the Contractor for this added service, then the County will give the Contractor as much prior notice as possible, even up to one year prior to the excavation project desired completion date.

4. Special Services. The County reserves the right to direct the Contractor to perform Special Services related to the operation of the Landfill not specifically identified in this Agreement. The Contractor shall be compensated for these services on a time and materials basis as described in the definition of Special Services Hourly Rates and the attached Special Services Rate Schedule. In the event the County requests the Contractor to provide Special Services, the Contractor shall be entitled to compensation based on the Special Services Hourly Rates for the appropriate personnel and equipment used to provide such services, as described in the definition of Special Services Hourly Rates and the attached Special Services Rate Schedule. No claim for Special Services provided by Contractor shall be compensated unless the County gives prior written authorization to the Contractor to perform such services as may be requested. The Contractor shall only be obligated to perform those Special Services which have been authorized in writing by the County and which the Contractor agrees to perform.

B. Payment of Invoices. The Contractor shall submit invoices to the County's Project Manager prior to the fifth (5th) of each month. Following review by the Project Manager and the

County, the County shall pay all approved amounts to the Contractor within fifteen (15) days following receipt of the approved invoice in the office of the Sandoval County Finance Department. Interest at the rate of one and one-half percent (1.5%) per month shall be charged for invoices that are not paid within this time schedule. Each payment shall also include applicable payments in accordance with the Rate Schedule, Soil Mass Excavation, Incremental Closure, Compaction Bonus and Special Services, handled at the Facility during the previous month.

C. Adjustments to the Contractor's Fees. The Contractor's fees as described in Exhibit A shall be adjusted annually during the term of the Contract in accordance with the following:

1. CPI Adjustment. On the annual anniversary date of the contract the unit costs shall be adjusted in accordance with the cost proposal submitted by Contractor.

2. Change of Law. The Contractor may adjust the fees shown in Exhibit A, A, to recover any direct costs incurred as a result of a Change of Law. The Contractor shall notify the County within thirty (30) days after the Contractor determines that any Change of Law will require an adjustment in the Fees. In such notice the Contractor shall describe the Change of Law and provide the reasons for the adjustment in the Fees.

D. Changes Requested by the County. In addition to the request for Special Services as described in Exhibit A, A(4) above, the County may request changes to the scope of work under the Agreement which it deems necessary, beneficial or expedient.

1. Such requests shall be submitted in writing by the County to the Contractor and shall describe the requested change and request a non-binding budget and time estimate. Within ten (10) days of receipt of the County's request, the Contractor shall prepare and submit to the County a budget estimate in line detail showing estimated amounts for labor, materials, subcontractor costs, design costs and Contractor profit.

2. The County shall promptly review each budget and time estimate submitted by the Contractor and, within thirty (30) days following receipt, shall advise the Contractor in writing of the County's decision as to whether to proceed with the requested change. In the course of its review, the County may request a conference(s) with the Contractor for purposes of discussing and negotiating specific details regarding scope, cost and time requirements for the requested change. Should the County decide to proceed, it shall direct the Contractor in writing to prepare a proposed change order supported by engineering drawings, specifications, cost substantiation and detailed time schedule and to submit the change order for further review by the County on or before a date specified in the County's written directive to proceed. Upon receipt of engineering drawings, specifications, cost substantiation and detailed time schedule, the County will contact NMED to determine if the change to the scope of work is deemed to be a modification to the Permit. No change order will be prepared or executed until such time as contact and direction is provided by NMED.

3. If the County determines the proposed change order to be acceptable, it shall execute the change order and return an executed copy to the Contractor within thirty (30) days following its receipt. Should the County decide not to proceed after reviewing the proposed change order, it shall so advise the Contractor in writing within fifteen (15) days following its receipt. The

County shall reimburse the Contractor for engineering services or for other services as documented by cost substantiation submitted in support of the change order.

Rate Schedule

Landfill Operations

The County shall pay the Contractor a Monthly Operating Fee based upon Tables 5.1, and/or Tables 5.2A and 5.2B. The total tonnage for the month shall be multiplied by the applicable rate based upon the monthly average tons/day. In order to calculate monthly average tons per day, the total tonnage accepted by the County for disposal during the month is divided by the number of working days during the month, including Monday through Saturday but excluding Sundays, approved Holidays and closures of the landfill, for the entire day, due to inclement conditions.

Fuel Surcharge

In the event that the Contractor is utilizing a fuel surcharge as part of their cost proposal, the cost and methodology shall be inserted into this section.

EXHIBIT I

ANNUAL REPORTS
(2018-2021)



New Mexico Environment Department Solid Waste Bureau Facility Annual Report

FACILITY

| ID | Facility Name | Facility Type | County | Address | City | State | Zip | Contact | Phone | Ext. | Email | Phys. Location | Latitude | longitude | Status |
|----------|--|----------------------|----------|--------------|------------|-------|-------|----------------|--------------|------|--------------------------------|--|----------|------------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | 2708 Iris NE | Rio Rancho | NM | 87144 | Robert Sanchez | 505-867-0816 | | rmsanchez@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.30736 | -106.62244 | Open |

FACILITY OPERATOR

| Name | Address | City | State | Zip |
|----------------------|--------------|------------|-------|-------|
| Sandoval (County of) | 2708 Iris RD | Rio Rancho | NM | 87144 |

FACILITY OWNER

| Name | Address | City | State | Zip |
|----------------------|---|------------|-------|-------|
| Sandoval (County of) | 1500 Idalia Rd., Building D (P.O. Box 40) | Bernalillo | NM | 87004 |

LAND OWNER

| Name | Address | City | State | Zip |
|-----------------|------------------------------|------------|-------|-------|
| Sandoval County | 1500 Idalia Road, Building D | Bernalillo | NM | 87004 |

LANDFILL CAPACITY/MONITORING

| Capacity Used (cu yd) | Capacity Remaining (cu yd) | Remaining Life (yrs) | Unpermitted acres available for future disposal | Chages in operation reducing life 25% or more | Total acres used for disposal | Intermediate cover acres | Area seeded acres | Total acres with final cover |
|-----------------------|----------------------------|----------------------|---|---|-------------------------------|--------------------------|-------------------|------------------------------|
| 13813058 | 2887141 | 15.4 | 10 | 0 | 122.5 | 48.9 | 0 | 0 |

MATERIAL AND SOLID WASTE

[illegible]

RECYCLABLE MATERIALS

[illegible]



New Mexico
ENVIRONMENT
Department

Solid Waste Bureau Annual Report

Facility list

Facility

ID: **chrisperea** [Log out](#)

| Operator and Owners | Landfill Information | Material and Solid Waste | Recyclable Materials | Certified Operators | Documents |
|--|----------------------|--------------------------|----------------------|---------------------|-------------------------------------|
| <div> <div>ID</div> <div>LFP- 0245</div> </div> <div> <div>Facility Name</div> <div>Sandoval County Landfill and Composting Facility</div> </div> <div> <div>Facility Type</div> <div>Landfill - permitted</div> </div> <div> <div>County</div> <div>Sandoval</div> </div> <div> <div>Address</div> <div>2708 Iris NE</div> </div> <div> <div>City</div> <div>Rio Rancho</div> </div> <div> <div>State</div> <div>NM</div> </div> <div> <div>Zip</div> <div>87144</div> </div> <div> <div>Contact Name</div> <div>Robert Sanchez</div> </div> <div> <div>Phone</div> <div>505-867-0816</div> </div> <div> <div>Ext.</div> <div></div> </div> <div> <div>Email</div> <div>rmsanchez@sandovalcountynm.gov</div> </div> <div> <div>Physical Location</div> <div>2700 Iris RD Rio Rancho NM 87144-Sandoval County</div> </div> <div> <div>Latitude</div> <div>35.30736</div> </div> <div> <div>Longitude</div> <div>-106.62244</div> </div> <div> <div>Status</div> <div>Open</div> </div> | | | | | Print Annual Report |
| <div>LFP- 0245 Submitted and locked 02/12/2020</div> | | | | | |

page last updated 02/12/2020

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New Mexico
ENVIRONMENT
Department

Solid Waste Bureau Annual Report

Operator and Owners

Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Status |
|----------|--|----------------------|----------|----------------|--------------|------------|-------|-------|--------------|------|--------------------------------|--|----------|-----------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Robert Sanchez | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-867-0816 | | rmsanchez@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | Open |

Operator and Owners

[Back to Master table](#)

ID: **chrsperea** [Log out](#)

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Operator Name   Sandoval (County of)
Address         2708 Iris RD
City            Rio Rancho
State           NM
Zip             87144
Owner Name      Sandoval (County of)
Address         1500 Idalia Rd., Building D (P.O. Box 40)
City            Bernalillo
State           NM
Zip             87004
Landowner Name  Sandoval County
Address         1500 Idalia Road, Building D
City            Bernalillo
State           NM
Zip             87004
  
```

page last updated 02/12/2020



New Mexico
ENVIRONMENT
Department

Solid Waste Bureau Annual Report

Landfill Information

Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Status |
|----------|--|----------------------|----------|----------------|--------------|------------|-------|-------|--------------|------|--------------------------------|--|----------|-----------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Robert Sanchez | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-867-0816 | | rmsanchez@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | Open |

Landfill Information

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ID: [chrisperea](#) [Log out](#)

| | | |
|---|--------------------------|---|
| Capacity Used (cu yd) | 13,813,058.00 | Please attach Landfill Capacity Worksheet (see Documents tab) |
| Capacity Remaining (cu yd) | 2,887,141.00 | |
| Remaining Life (yrs) | 15.40 | |
| Unpermitted acres available for future disposal | 10.00 | |
| Chages in operation reducing life 25% or more | <input type="checkbox"/> | |
| Total acres used for disposal | 122.50 | |
| Intermediate cover acres | 48.90 | |
| Area seeded acres | 0.00 | |
| Total acres with final cover | 0.00 | |

page last updated 02/12/2020



New Mexico
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Department

Solid Waste Bureau Annual Report

Material and Solid Waste

Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Status |
|----------|--|----------------------|----------|----------------|--------------|------------|-------|-------|--------------|------|--------------------------------|--|----------|-----------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Robert Sanchez | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-867-0816 | | rmsanchez@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | Open |

Material and Solid Waste in tons

[Back to Master table](#)

ID: [chrisperea](#) [Log out](#)

| | Material Type | Method | In-State Material Received | Out-of-State Material Received | On-Site Landfilled / Treated | On-Site Recycled / Mulched / Composted | On-Site Beneficially Used | Off-Site Treated / Disposed / Incinerated | Off-Site Recycled / Mulched / Composted | Off-Site Beneficially Used | Sent to Facility |
|--|-------------------|----------|----------------------------|--------------------------------|------------------------------|--|---------------------------|---|---|----------------------------|--------------------|
| | Scrap Tires | Estimate | 32.40 | | 32.40 | | | | | | |
| | MSW | Weighed | 90,324.99 | | 90,324.99 | | | | | | |
| | Clean Fill | Weighed | 6,723.17 | | | | 6,723.17 | | | | |
| | Bio-Solids | Weighed | 98.80 | | 98.80 | | | | | | |
| | C and D | Weighed | 82,545.23 | | 82,545.23 | | | | | | |
| | Brush/Green Waste | Weighed | 7,380.36 | | | 7,380.36 | | | | | |
| | HHW | Weighed | 5.70 | 0.00 | 0.00 | 0.00 | 0.00 | 5.70 | 0.00 | 0.00 | OTHER-OUT-OF-STATE |
| | Total: | | 187,110.65 | Total: 0.00 | Total: 173,001.42 | Total: 7,380.36 | Total: 6,723.17 | Total: 5.70 | Total: 0.00 | Total: 0.00 | |

page last updated 02/12/2020



New Mexico
ENVIRONMENT
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Solid Waste Bureau Annual Report

Recycling

Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Status |
|----------|--|----------------------|----------|----------------|--------------|------------|-------|-------|--------------|------|--------------------------------|--|----------|-----------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Robert Sanchez | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-867-0816 | | rmsanchez@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | Open |

Recycling in tons

[Back to Master table](#)

ID: [chrissperea](#) [Log out](#)

| | Type of Recyclable | Method | In-State Material Received | Out-of-State Material Received | On-Site Beneficially Used or Re-Used | Off-Site Recycled or Processed | Off-Site Beneficially Used | Sent to Facility |
|--|--------------------------|---------|----------------------------|--------------------------------|--------------------------------------|--------------------------------|----------------------------|--|
| | Cardboard (OCC) | Weighed | 35.20 | 0.00 | 0.00 | 35.20 | 0.00 | Master Fibers, Inc. |
| | Plastics | Weighed | 2.40 | 0.00 | 0.00 | 2.40 | 0.00 | Friedman Recycling Albuquerque MRF |
| | Electronic Scrap | Weighed | 16.50 | 0.00 | 0.00 | 16.50 | 0.00 | Albuquerque Computer and Electronics Recycling Co. |
| | Scrap Metals/White Goods | Weighed | 158.90 | 0.00 | 0.00 | 2,158.90 | 0.00 | OTHER-INSTATE |
| | Mixed Paper | Weighed | 10.20 | 0.00 | 0.00 | 10.20 | 0.00 | Master Fibers, Inc. |
| | Scrap Metals/White Goods | Weighed | 189.50 | 0.00 | 0.00 | 189.50 | 0.00 | Acme Iron & Metal |
| | Total: | | 412.70 | Total: 0.00 | Total: 0.00 | Total: 2,412.70 | Total: 0.00 | |

page last updated 02/12/2020



New Mexico
ENVIRONMENT
Department

Solid Waste Bureau Annual Report

Certified Operators

Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Status |
|----------|--|----------------------|----------|----------------|--------------|------------|-------|-------|--------------|------|--------------------------------|--|----------|-----------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Robert Sanchez | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-867-0816 | | rmsanchez@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | Open |

Certified Operators

[Back to Master table](#)

ID: **chrisperea** [Log out](#)

Lee Yardman.....INACTIVE
 Buster Roseberry.....INACTIVE
 Tommy Mora, Jr.....ACTIVE
 Michael F. Anderson.....INACTIVE
 Robert M Sanchez.....ACTIVE
 Russell R. Crockett.....INACTIVE
 Elias J. Rivera.....INACTIVE
 Koryn M Misbach.....ACTIVE
 Jennifer Scacco.....INACTIVE
 Christopher A. Perea.....ACTIVE
 Peter Nieto.....ACTIVE
 Zachariah A Keintz.....ACTIVE
 Orlando R Pino.....ACTIVE

page last updated 02/12/2020



New Mexico
ENVIRONMENT
Department

Solid Waste Bureau Annual Report

Documents

Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Status |
|----------|--|----------------------|----------|----------------|--------------|------------|-------|-------|--------------|------|--------------------------------|--|----------|-----------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Robert Sanchez | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-867-0816 | | rmsanchez@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | Open |

Documents

[Back to Master table](#)

ID: **chrisperea** [Log out](#)

| | Description | DOCUMENT |
|--------------------------|----------------------------------|--|
| <input type="checkbox"/> | Financial Assurance | SCLF_CPC Cost Est Tables-2020 Update.pdf (97814 bytes) |
| <input type="checkbox"/> | Landfill Capacity Worksheet | 2019LandfillCapacityCalculationComplete.xlsx (24855 bytes) |
| <input type="checkbox"/> | Annual Reporting Information | Annual-Reporting-Information-2019.pdf (1446204 bytes) |
| <input type="checkbox"/> | Environmental Monitoring Summary | EnvironmentalMonitoringSummary-2019-complete.pdf (1377967 bytes) |
| <input type="checkbox"/> | Financial Assurance | Financial assurance letter 2019.pdf (280885 bytes) |

page last updated 02/12/2020

Annual Reporting Information

| | | |
|---|---|-------------------|
| Facility Name: Sandoval County Landfill & Composting Facility | | Year: 2019 |
| Name of Person Completing Form: Christopher Perea | | |
| Phone Number: 505-867-0814 | Email Address: cperea@sandovalcountynm.gov | |
| Average Landfill Tipping Fees | | |
| Average Transfer Station Tipping Fees | | |
| MSW: \$28/TON | MSW: | |
| Tires: \$3.50/tire | Tires: | |
| Special Waste: \$38/TON | | |
| General Comments: | | |
| <p>- PCS were not accepted at the landfill in 2019</p> <p>- Contact person change to: Christopher Perea (cperea@sandovalcountynm.gov), Solid Waste Manager</p> <p>New Certified Operator additions for SCLF:</p> <p>-Mark Hatzenbuhler #4715</p> <p>-Susano Archuleta #2921</p> <p>-Michael Gonzales #4763</p> <p>-Pete Smith #4773</p> <p>Certified Operators to remove from the Facility:</p> <p>-Tommy Mora, Jr.</p> <p>-Robert M. Sanchez</p> <p>-Zachariah Keintz</p> <p>-Orlando Pino</p> <p>-Peter Nieto</p> | | |
| Did you select "Other or Co-mingled" for a recyclable or solid waste material type(s) accepted at your facility? | | |
| If yes, name specific material(s): | | |
| No | | |
| Did you select "OTHER-IN/OUT OF-STATE" for a facility you sent solid waste or recyclable materials to? | | |
| If yes, name specific facility: | | |
| ACT Enviro (HHW), Alpha Appliance (White Goods) | | |
| Forms: Include additional notes on attached forms or why forms were not attached this year | | |
| Financial Assurance: | | |
| NA | | |
| Environmental Monitoring Summary: | | |
| NA | | |
| Landfill Capacity Worksheet: | | |
| NA | | |

V. 2019 Landfill Capacity Worksheet

Landfill Capacity Calculation Worksheet for Sandoval County Landfill

All owners/operators are **required** to provide information regarding landfill capacity. To calculate your landfill's remaining capacity you may use: 1) this Excel worksheet 2) a terrain computer model program such as "TerraModel ToolPak" or 3) hire an engineering firm to complete the calculations. If you use the worksheet, it will calculate the values K, L and M for you; all you need to do is input the information as requested for Items A through J. Once completed, include this form as part of your Annual Report.

Enter your data here:

| Landfill information | | | |
|----------------------|--|------------|-------------|
| (A) | Total landfill area | 122.5 | Acres |
| (B) | Total permitted volume (gross capacity) | 13,813,058 | Cubic yards |
| (C) | Thickness of liner protective soil layer | 2.0 | Feet |
| (D) | Thickness of final cover | 4.0 | Feet |
| (E) | Estimated percentage of gross capacity taken by daily and intermediate covers (if unknown, use default value of 25%) | 25.0 | % |

| Waste Information | | | | | |
|--|--|-------------|-------------|-------------------------------------|--------------------------|
| Note: The worksheet allows you to enter the amount of received waste based on a combination of two different types of records: tonnage and gate-yards. Combined, these records should represent the total received waste. Mark appropriate boxes if values are actual or estimated . | | | | | |
| | | | | Actual | Estimated |
| (F) | Waste received through 2018 based on tonnage (if no tonnage receipts, enter "0") | 5,815,339.0 | Tons | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (G) | Waste received through 2018 based on gate-yards (if no gate-yard receipts, enter "0") | 0 | Cubic yards | <input type="checkbox"/> | <input type="checkbox"/> |
| (H) | Waste received in 2019 based on tonnage (if no tonnage receipts, enter "0") | 173,001.4 | Tons | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (I) | Waste received in 2019 based on gate-yards (if no gate-yard receipts, enter "0") | 0 | Cubic yards | <input type="checkbox"/> | <input type="checkbox"/> |
| (J) | Compaction rate of emplaced waste (for example, enter "3" for 3 to 1 compaction). If wastes are being compacted but compaction rate is unknown, enter default value of "2" for a conservative result. If no compaction, enter "1". | 3.0 | | | |

| Calculations | | | |
|---|--|-----------|-------------|
| Note: If the calculations are not performed automatically by the worksheet, complete them manually using the provided formulas. | | | |
| (K) | Net waste capacity $K = B - A \cdot (C + D) \cdot 4840 / 3 - B \cdot E / 100$ | 9,173,994 | Cubic yards |
| (L) | Remaining permitted waste capacity $L = K - (F + H) \cdot 6 / J - (G + I) / J$ | 2,887,141 | Cubic yards |
| (M) | Estimated remaining site life $M = L / (H \cdot 6 / J + I / J)$ | 15.4 | Years |

Form Completed by: Christopher Perea

Telephone number: 505-867-0814

NOTE:

K: 4,840 = square yards in acre

L: 6 = number of uncompacted cubic yards/ton

Category: All

Transactions from 01/01/2019 through 12/31/2019

Inbound and Outbound Tickets

Third Party and Intercompany Customers

Recycle and Disposal Material

Category Summary

D: CHRISTOPHER

| | Cubic Yards | Tons | Est Tons | Taxes | Disposal Amount | Amount |
|---|-------------|-----------|----------|-------------|-----------------|----------------|
| CLF - CLEAN FILL DIRT <i>679 tickets and 679 transactions</i> | 0.00 | 6,723.17 | 0.00 | \$670.47 | \$14,825.63 | \$15,496.10 |
| CNCR - CONCRETE <i>52 tickets and 52 transactions</i> | 0.00 | 289.71 | 0.00 | \$0.00 | \$2,470.00 | \$2,470.00 |
| COMM - COMMERCIAL WASTE <i>2,340 tickets and 2,340 transactions</i> | 0.00 | 11,525.84 | 0.00 | \$914.09 | \$167,130.41 | \$168,044.50 |
| COMP - COMPACT <i>6,878 tickets and 6,878 transactions</i> | 1.00 | 65,132.95 | 0.00 | \$10,180.48 | \$1,099,689.10 | \$1,109,869.58 |
| CONS - CONSTRUCTION <i>20,842 tickets and 20,842 transactions</i> | 8.00 | 82,255.52 | 0.00 | \$60,939.43 | \$1,902,522.60 | \$1,963,462.03 |
| GRWS - GREENWASTE <i>15,617 tickets and 15,617 transactions</i> | 1,187.00 | 7,380.36 | 0.00 | \$4,895.96 | \$149,891.82 | \$154,787.78 |
| HHW - HOUSEHOLD HAZARDOUS WASTE <i>258 tickets and 258 transactions</i> | 0.00 | 0.00 | 0.00 | \$0.00 | \$3,885.00 | \$3,885.00 |
| MAT - MATTRESSES <i>1,152 tickets and 1,152 transactions</i> | 1.00 | 0.00 | 0.00 | \$0.00 | \$8,805.00 | \$8,805.00 |
| MULC - MULCH <i>173 tickets and 173 transactions</i> | 0.00 | 122.01 | 0.00 | \$15.04 | \$1,592.75 | \$1,607.79 |
| NA - Not Applicable <i>1,696 tickets and 1,696 transactions</i> | 0.00 | 0.00 | 0.00 | \$0.00 | \$2,877.75 | \$2,877.75 |
| POST - COMPOST <i>40 tickets and 40 transactions</i> | 0.00 | 6.37 | 0.00 | \$0.00 | \$439.00 | \$439.00 |
| RES - RESIDENTIAL <i>41,278 tickets and 41,278 transactions</i> | 79,429.00 | 13,666.20 | 0.00 | \$2,895.60 | \$288,667.23 | \$291,562.83 |
| S. H. - SPECIAL HANDLING <i>1 ticket and 1 transaction</i> | 0.00 | 4.39 | 0.00 | \$0.00 | \$131.09 | \$131.09 |
| SLUD - SLUDGE <i>6 tickets and 6 transactions</i> | 0.00 | 98.80 | 0.00 | \$187.72 | \$3,754.40 | \$3,942.12 |
| TIRE - TIRES <i>370 tickets and 370 transactions</i> | 99.00 | 32.40 | 0.00 | \$0.00 | \$5,787.00 | \$5,787.00 |
| TV - TELEVISIONS <i>378 tickets and 378 transactions</i> | 0.00 | 0.00 | 0.00 | \$0.00 | \$9,020.00 | \$9,020.00 |

RpCatMat.rpt

Category: All

SANDOVAL COUNTY LANDFILL

Category / Material Report

Transactions from 01/01/2019 through 12/31/2019

Inbound and Outbound Tickets

Third Party and Intercompany Customers

Recycle and Disposal Material

Category Summary

D: CHRISTOPHER

| | Cubic Yards | Tons | Est Tons | Taxes | Disposal Amount | Amount |
|-----------------------------------|-------------|------------|----------|-------------|-----------------|----------------|
| <u>Report Grand Totals</u> | 80,725.00 | 187,237.72 | 0.00 | \$80,698.79 | \$3,661,488.78 | \$3,742,187.57 |

91,759 tickets and 91,760 transactions

End of Report



Environmental Monitoring Summary

All currently permitted landfills and closed landfills in post-closure care are required to complete this form and attach to your Annual Report. Please note: This form is a summary of your Environmental Monitoring in accordance with your landfill permit and does not replace your full Environmental Monitoring reports to be submitted to the Solid Waste Bureau throughout the year.

Purpose of this form: To ensure compliance with the New Mexico Solid Waste Rules Section 20.9.5.16 NMAC:
<https://www.env.nm.gov/wp-content/uploads/2018/05/1.24.12SolidWasteRuleswPharmacyFinal.pdf>

All Environmental Monitoring Reports are to be submitted to the Permitting Section Manager:

George.Schuman@state.nm.us

(505) 827-2328 (Santa Fe office)

(505) 222-9577 (Albuquerque office)

Please contact the Permitting Section Manager directly for any questions related to submittal of your facility's Environmental Monitoring Reports

Facility Name: Sandoval County Landfill

1. Did you submit a Leachate Monitoring Report to the Permit Section Manager? (Please check box)

Yes: ☒ No: ☐ Date(s) Submitted: 04/04/2019; 06/12/2019; 09/30/2019; 12/30/2019

If not yet submitted, please indicate intended submittal date: N/A

Please indicate if monitoring results were within regulatory limits: Yes ☒ No ☐

2. Did you submit a Methane Monitoring Report to the Permit Section Manager? (Please check box)

Yes: ☒ No: ☐ Date(s) Submitted: 03/15/2019; 06/27/2019; 09/10/2019; 11/12/2019

If not yet submitted, please indicate intended submittal date: N/A

Please indicate if monitoring results were within regulatory limits: Yes ☒ No ☐

3. Did you submit a Ground Water Monitoring Report to the Permit Section Manager? (Please check box)

Yes: ☒ No: ☐ Date(s) Submitted: 06/21/2019

If not yet submitted, please indicate intended submittal date: N/A

Please indicate if monitoring results were within regulatory limits: Yes ☒ No ☐

4. Please use this space to provide any additional information:

TABLE VI.1.1
CLOSURE/POST-CLOSURE
COST ESTIMATE SUMMARY (Updated 01/2020)
Sandoval County Landfill

| TASK | 2015 COST ESTIMATE | 2016 COST ESTIMATE | 2017 COST ESTIMATE | 2018 COST ESTIMATE | 2019 COST ESTIMATE ⁽¹⁾ | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|--|--|
| 1.0 CLOSURE CONSTRUCTION | \$2,908,411 | \$2,702,484 | \$2,786,313 | \$2,879,612 | \$2,963,234 | | |
| 2.0 LANDFILL MAINTENANCE | \$431,916 | \$442,715 | \$456,442 | \$470,594 | \$483,775 | | |
| 3.0 ENVIRONMENTAL MONITORING | \$489,753 | \$501,998 | \$517,561 | \$533,606 | \$548,548 | | |
| 4.0 COMPOSTING FACILITY | \$37,653 | \$38,642 | \$39,857 | \$41,114 | \$42,293 | | |
| 5.0 PHASE I/II ASSESSMENTS | \$232,327 | \$237,970 | \$245,143 | \$252,539 | \$259,425 | | |
| TOTAL COST ESTIMATE | \$4,100,061 | \$3,923,809 | \$4,045,316 | \$4,177,465 | \$4,297,274 | | |

Notes:

¹ Incorporates CPI-U Increase from 12/18 to 12/19 = **2.8%**

CPI-U Increase obtained from Bureau of Labor Statistics (BLS), West Urban, "All Items Index" (January 14, 2020)

CPI-U = Consumer Price Index (unadjusted)

TABLE VI.1.2
CLOSURE CONSTRUCTION
CLOSURE COST ESTIMATE (Updated 01/2019)
Sandoval County Landfill

| TASK 1.0 | | | UNIT I | UNIT II | UNIT III | UNIT IV | Unit | 2018 Unit Cost | 2019 Unit Cost (With CPI Increase) | 2019 Total Cost |
|--|--|--|---------------|---------------|---------------|--------------|------|----------------------|---|-----------------------|
| | | | 29.4 acres | 19.5 acres | 63.6 acres | 0.0 acres | | | | |
| | | | Quantity | Quantity | Quantity | Quantity | | | | |
| 1.1 Final Cover Installation | Thickness Units I & II (ft) | Thickness Units III & IV (ft) | | | | | | | | |
| 1.1.1 Install Vegetative Layer | 0.5 | 0.5 | 23,716 | 15,730 | 51,304 | 0 | CY | \$3.06 | \$3.15 | \$285,863 |
| 1.1.2 Install and Compact Barrier Layer | 1.5 | 2.5 | 71,148 | 47,190 | 256,520 | 0 | CY | \$4.37 | \$4.50 | \$1,686,861 |
| 1.1.3 Install Intermediate Layer | 1 | 1 | 0 | 0 | 102,608 | 0 | CY | \$3.06 | \$3.15 | \$323,215 |
| 1.1.4 Vegetative Layer Seeding (Class A) | -- | -- | 29.4 | 19.5 | 63.6 | 0.0 | AC | \$1,858.71 | \$1,910.76 | \$214,961 |
| Task Subtotal | | | | | | | | | | \$2,510,899 |
| 1.2 Site Work | | | | | | | | | | |
| 1.2.1 Drainage Extensions | | | | 1 | | | LS | \$12,391.26 | \$12,738.22 | \$12,738 |
| 1.2.2 On-site Roadwork | | | | 1 | | | LS | \$24,782.49 | \$25,476.40 | \$25,476 |
| Task Subtotal | | | | | | | | | | \$38,215 |
| 1.3 Engineering | | | | | | | | | | |
| 1.3.1 Incremental Closure Workplans (Units I & II) | | | | 1 | | | LS | \$35,000.00 | \$35,000.00 | \$35,000 |
| 1.3.2 Design/Procurement | | | | 1 | | | LS | \$61,956.17 | \$63,690.95 | \$63,691 |
| 1.3.3 CQA Certification | | | | 1 | | | LS | \$37,173.72 | \$38,214.59 | \$38,215 |
| Task Subtotal | | | | | | | | | | \$136,906 |
| 1.4 HHW Operations | | | | | | | | | | |
| 1.4.1 Removal of Waste, Cleanup, and Certification | | | | 1 | | | LS | \$7,616.03 | \$7,829.28 | \$7,829 |
| Task Subtotal | | | | | | | | | | \$7,829 |
| SUBTOTAL | | | | | | | | | | \$2,693,849 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | | | | | | \$269,385 |
| TOTAL COST | | | | | | | | | | \$2,963,234 |

Notes:

- Closure costs are based on contracting with a qualified third party to complete and certify closure. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
- Final cover installation costs assume that:
 - ▶ The greatest area requiring final cover is approximately 112.5 acres, consisting of the total acreage for Units I-III.
 - ▶ Intermediate cover has already been installed on Units I & II.
 - ▶ Approximately 12" of Infiltration Layer material has already been installed on Units I & II.
- CY = Cubic Yards
 AC = Acre
 LS = Lump Sum

TABLE VI.1.3
LANDFILL MAINTENANCE
POST-CLOSURE COST ESTIMATE (Updated 01/2020)
Sandoval County Landfill

CPI-U Increase from 12/18 to 12/19 (Bureau of Labor Statistics, West Urban, "All Items Index" increase) = **2.8%**

| TASK 2.0 | Unit Quantity | Unit | 2018 Unit Cost | 2019 Unit Cost (With CPI Increase) | 2019 Total Cost Per Year | 2019 Total Cost For 30 Years |
|--|--------------------------|-------------|-------------------------------|---|---|---|
| 2.1 Final Cover Inspection and Reporting | | | | | | |
| 2.1.1 Inspection | 2 | events/yr | \$1,486.96 | \$1,528.60 | \$3,057 | \$91,716 |
| 2.1.2 Recordkeeping and Reporting | 1 | report/yr | \$1,486.96 | \$1,528.60 | \$1,529 | \$45,858 |
| Task Subtotal | | | | | \$4,586 | \$137,574 |
| 2.2 Final Cover Maintenance | | | | | | |
| 2.2.1 Cover Maintenance (Erosion) | 1 | AC/yr | \$1,089.55 | \$1,120.06 | \$1,120 | \$33,602 |
| 2.2.2 Vegetation | 2 | AC/yr | \$1,858.71 | \$1,910.76 | \$3,822 | \$114,646 |
| Task Subtotal | | | | | \$4,942 | \$148,247 |
| 2.3 Leachate Management System | | | | | | |
| 2.3.1 Inspection, Measurements, & Repairs | 2 | events/yr | \$435.82 | \$448.03 | \$896 | \$26,882 |
| 2.3.2 Pump Replacement (Every 5 years) | 1 | LS | \$708.21 | \$728.04 | \$121 | \$4,368 |
| 2.3.3 Removal & Disposal/Treatment | 1 | events/yr | \$544.78 | \$560.04 | \$560 | \$16,801 |
| 2.3.4 Recordkeeping and Reporting | 1 | report/yr | \$326.87 | \$336.03 | \$336 | \$10,081 |
| Task Subtotals | | | | | \$1,913 | \$58,132 |
| 2.4 Environmental Monitoring Network | | | | | | |
| 2.4.1 Inspection | 2 | events/yr | \$163.44 | \$168.02 | \$336 | \$10,081 |
| 2.4.2 Recordkeeping and Reporting | 1 | report/yr | \$326.87 | \$336.03 | \$336 | \$10,081 |
| Task Subtotals | | | | | \$672 | \$20,162 |
| 2.5 Surface Water Management System | | | | | | |
| 2.5.1 Inspection/Repairs | 2 | events/yr | \$490.78 | \$504.53 | \$1,009 | \$30,272 |
| 2.5.2 Channels/Basins Cleaning & Repairs | 1 | events/yr | \$490.78 | \$504.53 | \$505 | \$15,136 |
| Task Subtotals | | | | | \$1,514 | \$45,408 |
| 2.6 Site Security | | | | | | |
| 2.6.1 Inspection/Repairs | 2 | repairs/yr | \$490.78 | \$504.53 | \$1,009 | \$30,272 |
| Task Subtotal | | | | | \$1,009 | \$30,272 |
| SUBTOTAL | | | | | \$14,636 | \$439,795 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | \$1,464 | \$43,980 |
| TOTAL COST | | | | | \$16,099 | \$483,775 |

Notes:

1. Post-closure maintenance costs are based on contracting with a qualified third party to conduct post-closure care for the landfill. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
2. AC = Acre
LS = Lump Sum

TABLE VI.1.4
ENVIRONMENTAL MONITORING
POST-CLOSURE COST ESTIMATE (Updated 01/2020)
Sandoval County Landfill

CPI-U Increase from 12/18 to 12/19 (Bureau of Labor Statistics, West Urban, "All Items Index" increase) = **2.8%**

| TASK 3.0 | Unit Quantity | Unit | 2018 Unit Cost | 2019 Unit Cost (With CPI Increase) | 2019 Total Cost Per Year | 2019 Total Cost |
|--|--------------------------|--------------|-------------------------------|---|---|--------------------------------|
| 3.1 Landfill Gas Monitoring | | | | | | |
| 3.1.1 Field Services/Reporting (30 years) | 4 | events/yr | \$743.50 | \$764.32 | \$3,057 | \$91,718 |
| Task Subtotal | | | | | \$3,057 | \$91,718 |
| 3.2 Groundwater Monitoring (Reduced Analyte List) | | | | | | |
| 3.2.1 Field Services/Reporting (24 years) | 1 | events/yr | \$7,434.76 | \$7,642.94 | \$7,643 | \$183,431 |
| 3.2.2 Lab Analysis (24 years) | 1 | events/yr | \$3,122.61 | \$3,210.05 | \$3,210 | \$77,041 |
| Task Subtotal | | | | | \$10,853 | \$260,472 |
| 3.3 Groundwater Monitoring (Full Analyte List) | | | | | | |
| 3.3.1 Field Services/Reporting (6 years) | 1 | events/yr | \$7,434.76 | \$7,642.94 | \$7,643 | \$45,858 |
| 3.3.2 Lab Analysis (6 years) | 1 | events/yr | \$11,152.14 | \$11,464.40 | \$11,464 | \$68,786 |
| Task Subtotal | | | | | \$19,107 | \$114,644 |
| 3.4 Monitoring Well Abandonment | | | | | | |
| 3.4.1 Field Services/Reporting (6 wells) | 1 | single event | \$30,978.10 | \$31,845.49 | -- | \$31,845 |
| Task Subtotal | | | | | -- | \$31,845 |
| SUBTOTAL | | | | | \$33,018 | \$498,680 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | \$3,302 | \$49,868 |
| TOTAL COST | | | | | \$36,319 | \$548,548 |

Notes:

1. Post-closure environmental monitoring costs are based on contracting with a qualified third part to conduct post-closure monitoring for the landfill. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
2. Well abandonment costs are one-time costs.

TABLE VI.1.5
IN-VESSEL COMPOSTING FACILITY
CLOSURE COST ESTIMATE (Updated 01/2020)
Sandoval County Landfill

CPI-U Increase from 12/18 to 12/19 (Bureau of Labor Statistics, West Urban, "All Items Index" increase) =

2.8%

| TASK 4.0 | Unit Quantity | Unit | 2018 Unit Cost | 2019 Unit Cost (With CPI Increase) | 2019 Total Cost |
|--|--------------------------|-------------|-------------------------------|---|--------------------------------|
| 4.1 Waste Handling | | | | | |
| 4.1.1 Apply Cured Compost to Final Cover | 1,500 | CY | \$4.39 | \$4.52 | \$6,780 |
| 4.1.2 Transport and Place Containerized Compost | 500 | CY | \$24.81 | \$25.51 | \$12,755 |
| 4.1.3 Dispose of Accumulated Leachate | 5,000 | gallons | \$0.64 | \$0.66 | \$3,300 |
| Task Subtotal | | | | | \$22,835 |
| 4.2 Site Restoration | | | | | |
| 4.2.1 Dismantle and Remove Infrastructure | 1 | LS | \$3,097.84 | \$3,184.58 | \$3,185 |
| 4.2.2 Remove and Dispose of Concrete Pad | 250 | CY | \$24.81 | \$25.51 | \$6,378 |
| 4.2.3 Grade and Vegetate Surface | 3 | AC | \$929.37 | \$955.40 | \$2,866 |
| Task Subtotal | | | | | \$12,428 |
| 4.3 Inspection and Certification | 1 | LS | \$3,097.84 | \$3,184.58 | \$3,185 |
| Task Subtotal | | | | | \$3,185 |
| SUBTOTAL | | | | | \$38,448 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | \$3,845 |
| TOTAL COST | | | | | \$42,293 |

Notes:

1. CY = Cubic Yards
 LS = Lump Sum
 AC = Acre

TABLE VI.1.6
PHASE I/II ASSESSMENTS
COST ESTIMATE (Updated 01/2020)
Sandoval County Landfill

CPI-U Increase from 12/18 to 12/19 (Bureau of Labor Statistics, West Urban, "All Items Index" increase) =

2.8%

| TASK 5.0 | Unit Quantity | Unit | 2018 Unit Cost | 2019 Unit Cost (With CPI Increase) | 2019 Total Cost |
|--|----------------------|-------------|-----------------------|---|------------------------|
| Downgradient Wells (5) | | | | | |
| 5.1 Sampling and Analysis | | | | | |
| 5.1.1 Lab Analysis (Full Subsections B&C parameters) | 5 | samples | \$3,655.26 | \$3,757.61 | \$18,788 |
| 5.1.2 Field Services/Reporting | 1 | events | \$5,482.88 | \$5,636.41 | \$5,636 |
| Task Subtotal | | | | | \$24,424 |
| All Wells (6) | | | | | |
| 5.2 Sampling and Analysis | | | | | |
| 5.2.1 Lab Analysis (Subsection B detected parameters) | 24 | samples | \$1,827.65 | \$1,878.83 | \$45,092 |
| 5.2.2 Field Services/Reporting | 4 | events | \$5,482.88 | \$5,636.41 | \$22,546 |
| Task Subtotal | | | | | \$67,638 |
| All Wells (6) | | | | | |
| 5.3 Sampling and Analysis | | | | | |
| 5.3.1 Lab Analysis (Full Subsections A&C parameters) | 12 | samples | \$1,827.65 | \$1,878.83 | \$22,546 |
| 5.3.2 Lab Analysis (Subsection B detected parameters) | 12 | samples | \$1,827.65 | \$1,878.83 | \$22,546 |
| 5.3.3 Field Services/Reporting | 2 | events | \$5,482.88 | \$5,636.41 | \$11,273 |
| Task Subtotal | | | | | \$56,365 |
| New Wells (1) | | | | | |
| 5.4 New Well Installation, Sampling, and Analysis | | | | | |
| 5.4.1 Well Installation | 1 | wells | \$60,920.53 | \$62,626.31 | \$62,626 |
| 5.4.2 Lab Analysis (Full Subsections A&C parameters) | 2 | samples | \$1,827.65 | \$1,878.83 | \$3,758 |
| 5.4.3 Lab Analysis (Subsection B detected parameters) | 2 | samples | \$1,827.65 | \$1,878.83 | \$3,758 |
| 5.4.4 Field Services/Reporting | 2 | events | \$5,482.88 | \$5,636.41 | \$11,273 |
| Task Subtotal | | | | | \$81,414 |
| 5.5 Consultant Assessment | | | | | |
| 5.5.1 Phase I/Phase II Assessment and Corrective Action Program | 1 | LS | \$6,000.00 | \$6,000.00 | \$6,000 |
| Task Subtotal | | | | | \$6,000 |
| SUBTOTAL | | | | | \$235,841 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | \$23,584 |
| TOTAL COST | | | | | \$259,425 |

Notes:

1. Phase I and Phase II Assessment costs are based on contracting with a qualified third party to conduct the activities outlined above. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
2. Cost estimates are based on sampling and analysis of wells that are intended to be part of the groundwater monitoring network over the next 10 years, plus one additional well.
3. Task 5.4: Due to positive groundwater quality results to-date, only 1 new well is projected for installation at this time. In the event additional wells are needed for Phase I/Phase II assessment, the cost estimate for this Task will be updated.
4. Task 5.5: Assessment and Corrective Action cost for this update based on positive groundwater quality results to-date. This cost will be updated accordingly if Corrective Action is necessary.
5. LS = Lump Sum

County of Sandoval

Finance Division



BOARD OF COUNTY COMMISSIONERS

DAVID J. HEIL - Chairman
JAY C. BLOCK - Vice Chairman
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F. KENNETH EICHWALD - Member

DIANNE MAES-County Manager

February 07, 2020

New Mexico Environmental Department-Solid Waste Bureau
Attn: Auralie Ashley-Marx-Solid Waste Bureau Chief
1190 St. Francis Drive
Santa Fe, New Mexico 87505

RE: Sandoval County Landfill

Dear Mrs. Ashley-Marx:

Pursuant to the requirements for the Local Government Financial Test SWR, 20.9.10.19, NMAC, as the chief Financial Officer for Sandoval County, I certify the following:

1. Regarding Section A. Sandoval County as owner and operator of the Sandoval County Landfill has outstanding general obligation bonds issued and a rating of Aa2 by Moody's Investor Services. A copy of the rating is included as Attachment A.
2. Regarding Section B. Sandoval County as owner and operator prepares its financial statements in conformity with generally accepted accounting principles for governments as evidenced by the Report of Independent Auditor for the period ending June 30, 2019, by Hinkle & Landers.
3. Regarding Section C. Sandoval County as owner and operator, is eligible to assure its obligations under Subsection F as it:
 - a. Is not currently in default on any outstanding general obligation bonds;
 - b. Has no outstanding general obligation bonds rated lower than the rates identified in item 1. Above;
 - c. Has not operated at a deficit in either of the past two fiscal years.
 - d. Has received an unqualified opinion, report issued by Hinkle & Landers, the Independent Certified Public Accountants for the county, for the period ended June 30, 2019.
4. Regarding Section F. 3. Sandoval County as owner and operator has placed a reference to the closure and post closure costs in the Comprehensive Annual Financial Report for Sandoval

County for the fiscal year ended June 30, 2018. See the Financial Statement for the year ended June 30, 2019, page 64, note 14. Attachment B.

5. The Closure and Post-closure costs for the Sandoval County Landfill have been prepared and are enclosed as Attachment C.
6. The total annual revenues for Sandoval County for the Period ending June 30, 2018 was \$75,068,853 the total Closure and Post-closure costs for the Sandoval County Landfill is \$4,177,465 which is 5.6%.

Questions regarding this information may be referred to the Sandoval County Finance Director or to Sandoval County Manager, Dianne Maes.

Sincerely,

A handwritten signature in blue ink, reading "Cassandra C. Herrera". The signature is fluid and cursive, with the first name "Cassandra" being more prominent than the last name "Herrera".

Cassandra C. Herrera
Finance Director

Attachments



INDEPENDENT AUDITOR'S REPORT

The Board of County Commissioners
State of New Mexico, Sandoval County and
Mr. Brian Colón, State Auditor
State of New Mexico, Office of the State Auditor

Report on Financial Statements

We have audited the accompanying financial statements of the governmental activities, the business-type activities, each major fund, the aggregate remaining fund information, and the budgetary comparisons for the general fund and the major special revenue fund of Sandoval County (the County), as of and for the year ended June 30, 2019, and the related notes to the financial statements which collectively comprise the County's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatements, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion.

An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the County, as of June 30, 2019, and the respective changes in financial position and where applicable, cash flows thereof and the respective budgetary comparisons for the general fund and major special revenue fund for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis of Matter

As discussed in Note 18 to the financial statements, the 2019 financial statements have been restated due to a change in accounting principle in which a governmental fund changed to a proprietary fund and a fiduciary fund was consolidated into the General Fund. Our opinion is not modified with respect to these matters.

Other Matters

Required Supplementary Information

Management has omitted the Management's Discussion and Analysis that accounting principles generally accepted in the United States of America requires to be presented to supplement the basic financial statements. Such missing information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. Our opinion on the basic financial statements is not affected by the missing information.

Accounting principles generally accepted in the United States of America require that the Schedules related to PERA, Net Pension Liabilities, OPEB, and Net OPEB Liabilities, listed as "Required Supplementary Information" in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements, that collectively comprise the County's basic financial statements. The combining and individual fund financial statements and the schedule of changes in the fiduciary assets and liabilities-agency funds, as listed in the table of contents, as supplementary information, are presented for purposes of additional analysis and are not required part of the basic financial statements. The schedule of expenditures of federal awards, as required by Title 2 U.S. Code of Federal Regulations (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*, is presented for purposes of additional analysis and are not required part of the basic financial statements. The other schedules, as required by 2.2.2 NMAC, as listed as other supplementary information in the table of contents, are also presented for purposes of additional analysis and are not a required part of the basic financial statements.

The statements and schedules, listed as supplementary and other supplementary information in the table of contents, are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information

has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the statements and schedules were fairly stated, in all material respects, in relation to the basic financial statements as a whole.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated November 6, 2019 on our consideration of the County's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the County's internal control over financial reporting and compliance.

A handwritten signature in black ink that reads "Hinkle & Landers, P.C." in a cursive, stylized font.

Hinkle + Landers, P.C.
Albuquerque, NM
November 6, 2019

**STATE OF NEW MEXICO
SANDOVAL COUNTY
NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED JUNE 30, 2019**

fiduciary net position was projected to be available to make all projected future benefit payments for current plan members through the fiscal year ending June 30, 2029. Thus, the 7.25% discount rate was used to calculate the net OPEB liability through 2029. Beyond 2029, the index rate for 20-year, tax exempt general obligation municipal bonds with an average rating of AA/Aa or higher. Thus, 4.08% is the blended discount rate.

Sensitivity of the net OPEB liability to changes in the discount rate and healthcare cost trend rates. The following presents the net OPEB liability of the County, as well as what the County's net OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower (3.08 percent) or 1-percentage-point higher (5.08 percent) than the current discount rate:

| 1% Decrease (3.08%) | Current Discount (4.08%) | 1% Increase (5.08%) |
|--------------------------------|-------------------------------------|--------------------------------|
| \$ 26,875,757 | \$ 22,207,048 | \$ 18,527,065 |

The following presents the net OPEB liability of the County, as well as what the County's net OPEB liability would be if it were calculated using healthcare cost trend rates that are 1-percentage-point lower or 1-percentage-point higher than the current healthcare cost trend rates:

| 1% Decrease | Current Trend Rate | 1% Increase |
|--------------------|-------------------------------|--------------------|
| \$ 18,772,741 | \$ 22,207,048 | \$ 24,899,622 |

OPEB plan fiduciary net position. Detailed information about the OPEB plan's fiduciary net position is available in NMRHCA's audited financial statements for the year ended June 30, 2018.

Payable Changes in the Net OPEB Liability. At June 30, 2019, the County reported a payable of \$14,304 for outstanding contributions due to NMRHCA for the year ended June 30, 2019.

NOTE 14 – CLOSURE AND POST-CLOSURE CARE COSTS

The County has an active landfill, located on County land, available for solid waste disposal. A portion of the total estimated current cost of the closure and post-closure care is to be recognized in each period the landfill accepts solid waste. The operations of the landfill are accounted for in a proprietary fund. The measurement and recognition of the liability for closure and post-closure care are based on total estimated current cost and landfill usage to date.

State and federal laws and regulations require that the County place a final cover on its landfill when closed and perform certain maintenance and monitoring functions at the landfill site for thirty years after closure. In addition to operating expenses related to current activities on the landfill, an expense provision and related liability are being recognized based on the future closure and post-closure care costs that will be incurred near or after the date the landfill no longer accepts waste. The recognition of these landfill closure and post-closure care costs has a balance of \$4,177,465 as of June 30, 2019, which is based on 100% usage (filled) of the landfill. The estimated total current cost of the landfill closure and post-closure care (\$4,177,465) is based on the amount that would be paid if all equipment, facilities, and services required to close, monitor and maintain the landfill were acquired as of June 30, 2019. However, the actual cost of closure and post-closure care may be higher due to inflation, changes in technology or changes in landfill laws and regulations. The County is required by state and federal laws and regulations to make annual contributions to finance closure and post-closure care. The County is in compliance with these requirements, and at June 30, 2019, the County has set aside \$4,177,465 for these purposes. The

**STATE OF NEW MEXICO
SANDOVAL COUNTY
NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED JUNE 30, 2019**

County expects that future inflation costs will be paid from the interest earnings on these annual contributions. However, if earnings are inadequate or additional post-closure care requirements are determined (due to changes in technology or applicable laws and regulation, for example), these costs may be covered from future tax revenues.

NOTE 15 – RISK MANAGEMENT

The County is exposed to various risks of loss related to torts, theft of, damage to, and destruction of assets; errors and omissions; injuries and natural disasters. Sandoval County is a member and is insured through the New Mexico County Insurance Authority. The Authority was created to provide comprehensive core insurance programs by expanding the pool of subscribers to maximize cost containment opportunities for required insurance coverage. The Authority acts as the common carrier for the State of New Mexico counties. The County pays an annual premium to the Authority based on claim experience and the status of the pool. The Risk Management Program includes Workers Compensation, General and Automobile Liability, Automobile Physical Damage, and Property and Crime coverage. The County is not liable for more than the premiums paid.

The County is a party in various lawsuits. Although the outcome of these lawsuits is not presently determinable, it is the opinion of the County's legal counsel that resolution of these matters will not have a material adverse effect on the financial condition of the County.

NOTE 16 – DEFERRED COMPENSATION PLAN

The County provides two optional deferred compensation 457 plans. These plans were created in accordance with IRC Section 457. The plans are available to any County employee. Nationwide Retirement Solutions, Inc. and International City/County Managers Association (ICMA) Retirement Corporation administer the individual plans. Employee contributions totaled \$72,538 for Nationwide and \$59,509 for ICMA for the year ended June 30, 2019.

NOTE 17 – DEFICIT FUND BALANCE

There were no funds with deficit fund balance at June 30, 2019.

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**STATE OF NEW MEXICO
SANDOVAL COUNTY
STATEMENT OF NET POSITION
AS OF JUNE 30, 2019**

| | Primary Government | | |
|--|----------------------------|-----------------------------|--------------|
| | Governmental Activities | Business-Type Activities | Total |
| ASSETS | | | |
| Current assets: | | | |
| Cash and cash equivalents | \$ 50,733,045 | 2,846,552 | 53,579,597 |
| Investments | 17,346,442 | 1,400,000 | 18,746,442 |
| Accounts receivables, net | 778,451 | 289,799 | 1,068,250 |
| Taxes receivables | 7,908,207 | 44,720 | 7,952,927 |
| Intergovernmental receivables | 962,164 | 117,408 | 1,079,572 |
| Total current assets | 77,728,309 | 4,698,479 | 82,426,788 |
| Non-current assets: | | | |
| Land and construction in progress | 10,552,424 | 1,212,029 | 11,764,453 |
| Other capital assets, net of accumulated depreciation | 74,253,440 | 7,913,985 | 82,167,425 |
| Total non-current assets | 84,805,864 | 9,126,014 | 93,931,878 |
| Total assets | 162,534,173 | 13,824,493 | 176,358,666 |
| Deferred outflows of resources | | | |
| Pension deferral | 10,372,661 | 384,322 | 10,756,983 |
| OPEB deferral | 3,486,291 | 126,068 | 3,612,359 |
| Total deferred outflows of resources | 13,858,952 | 510,390 | 14,369,342 |
| Total assets and deferred outflows of resources | \$ 176,393,125 | 14,334,883 | 190,728,008 |
| LIABILITIES | | | |
| Current liabilities: | | | |
| Accounts payable | \$ 197,772 | 3,027 | 200,799 |
| Accrued payroll liabilities | 1,076,189 | 38,048 | 1,114,237 |
| Accrued interest payable | 498,823 | 6,808 | 505,631 |
| Bonds and notes payable | 12,934,628 | 47,972 | 12,982,600 |
| Capital lease payable | 983,807 | - | 983,807 |
| Compensated absences | 417,284 | 12,298 | 429,582 |
| Bond premium, net | 1,920,944 | - | 1,920,944 |
| Total current liabilities | 18,029,447 | 108,153 | 18,137,600 |
| Long-term liabilities: | | | |
| Compensated absences | 250,370 | 7,378 | 257,748 |
| Bonds and notes payable | 37,900,609 | 632,853 | 38,533,462 |
| Capital lease payable | 5,346,456 | - | 5,346,456 |
| Landfill closure liability | - | 4,177,465 | 4,177,465 |
| Net pension liability | 38,027,598 | 1,087,172 | 39,114,770 |
| Net OPEB liability | 21,439,267 | 767,781 | 22,207,048 |
| Total long-term liabilities | 102,964,300 | 6,672,649 | 109,636,949 |
| Total liabilities | 120,993,747 | 6,780,802 | 127,774,549 |
| Deferred inflows of resources | | | |
| Pension deferral | 3,995,730 | 102,522 | 4,098,252 |
| OPEB deferral | 5,539,260 | 198,632 | 5,737,892 |
| Total deferred inflows of resources | 9,534,990 | 301,154 | 9,836,144 |
| NET POSITION | | | |
| Net investment in capital assets | 25,220,597 | 8,438,381 | 33,658,978 |
| Restricted for: | | | |
| Other purposes | 61,475,204 | 330,288 | 61,805,492 |
| Unrestricted | (40,831,413) | (1,515,742) | (42,347,155) |
| Total net position | 45,864,388 | 7,252,927 | 53,117,315 |
| Total liabilities, deferred inflows of resources, and net position | \$ 176,393,125 | 14,334,883 | 190,728,008 |

See Independent Auditor's Report.
The accompanying notes are an integral part of these financial statements.

**STATE OF NEW MEXICO
SANDOVAL COUNTY
STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES
GOVERNMENTAL FUNDS
FOR THE YEAR ENDED JUNE 30, 2019**

| | | <u>Special Revenue Fund</u> 2090, 2350, 8140, & 8142 Detention Fund | Debt Service Fund | Nonmajor Governmental Funds | Total Governmental Funds |
|---|----------------------|---|-------------------------|-----------------------------------|--------------------------------|
| | General Fund | | | | |
| REVENUES | | | | | |
| Taxes | | | | | |
| Property taxes | \$ 26,846,027 | - | - | 2,163,317 | 29,009,344 |
| Gas tax | 1,506,954 | - | - | 1,057,502 | 2,564,456 |
| Gross receipts | 5,213,848 | 934,556 | 1,248,323 | 2,658,088 | 10,054,815 |
| Lodger's tax | - | - | - | 12,239 | 12,239 |
| Payment in lieu of taxes | 2,330,950 | - | - | - | 2,330,950 |
| Licenses and permits | 8,475 | - | - | 254 | 8,729 |
| Intergovernmental | | | | | |
| State operating grants | 11,559 | 149,077 | - | 4,663,212 | 4,823,848 |
| State capital grants | - | - | - | 2,278,622 | 2,278,622 |
| Federal operating grants | - | - | - | 1,227,635 | 1,227,635 |
| Charges for services | 1,255,739 | 6,795,998 | 713,336 | 2,678,121 | 11,443,194 |
| Investment earnings | 1,063,368 | 3 | 97,631 | 222,696 | 1,383,698 |
| Rents and royalties | - | - | 9,150,000 | 187,158 | 9,337,158 |
| Other revenue | 191,511 | 93,418 | - | 309,236 | 594,165 |
| Total revenues | <u>38,428,431</u> | <u>7,973,052</u> | <u>11,209,290</u> | <u>17,458,080</u> | <u>75,068,853</u> |
| EXPENDITURES | | | | | |
| Current | | | | | |
| General government | 11,572,818 | - | 243 | 1,409,009 | 12,982,070 |
| Public safety | 5,165,930 | 11,319,057 | - | 7,432,705 | 23,917,692 |
| Public works | 1,418,072 | - | - | 4,029,004 | 5,447,076 |
| Health and welfare | - | - | - | 6,698,455 | 6,698,455 |
| Culture and recreation | - | - | - | 209,535 | 209,535 |
| Debt Service | | | | | |
| Principal payments | - | 219,600 | 10,330,000 | 3,859,047 | 14,408,647 |
| Interest payments | - | 2,818 | 1,098,776 | 641,435 | 1,743,029 |
| Bond issuance costs | - | 50,510 | - | 171,402 | 221,912 |
| Capital Outlay | | | | | |
| Capital outlay | - | 886,829 | - | 8,434,138 | 9,320,967 |
| Total expenditures | <u>18,156,820</u> | <u>12,478,814</u> | <u>11,429,019</u> | <u>32,884,730</u> | <u>74,949,383</u> |
| Excess (deficiency) of revenues over expenditures | 20,271,611 | (4,505,762) | (219,729) | (15,426,650) | 119,470 |
| OTHER FINANCING SOURCES (USES) | | | | | |
| Proceeds from issuance of debt | - | 292,172 | - | 12,365,000 | 12,657,172 |
| Bond premium | - | - | - | 1,390,235 | 1,390,235 |
| Transfers in | 51,420 | 6,023,042 | 885,884 | 10,867,082 | 17,827,428 |
| Transfers out | (16,769,697) | (60,817) | (215,562) | (1,441,366) | (18,487,442) |
| Total other financing sources (uses) | <u>(16,718,277)</u> | <u>6,254,397</u> | <u>670,322</u> | <u>23,180,951</u> | <u>13,387,393</u> |
| Net change in fund balance | 3,553,334 | 1,748,635 | 450,593 | 7,754,301 | 13,506,863 |
| Fund balances-beginning of year | 10,373,564 | 2,332,554 | 2,420,547 | 41,875,960 | 57,002,625 |
| Restatements | (7,358) | - | - | - | (7,358) |
| Fund balances-beginning of year, as restated | <u>10,366,206</u> | <u>2,332,554</u> | <u>2,420,547</u> | <u>41,875,960</u> | <u>56,995,267</u> |
| Fund balances-end of the year | <u>\$ 13,919,540</u> | <u>4,081,189</u> | <u>2,871,140</u> | <u>49,630,261</u> | <u>70,502,130</u> |



New Mexico Environment Department Solid Waste Bureau Facility Annual Report

FACILITY

| ID | Facility Name | Facility Type | County | Address | City | State | Zip | Contact | Phone | Ext. | Email | Phys. Location | Status |
|----------|--|----------------------|----------|--------------|------------|-------|-------|-------------------|--------------|------|-----------------------------|--|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | 2708 Iris NE | Rio Rancho | NM | 87144 | Christopher Perea | 505-269-6120 | | cperea@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | Open |

FACILITY OPERATOR

| Name | Address | City | State | Zip |
|----------------------|--------------|------------|-------|-------|
| Sandoval (County of) | 2708 Iris RD | Rio Rancho | NM | 87144 |

FACILITY OWNER

| Name | Address | City | State | Zip |
|----------------------|---|------------|-------|-------|
| Sandoval (County of) | 1500 Idalia Rd., Building D (P.O. Box 40) | Bernalillo | NM | 87004 |

LAND OWNER

| Name | Address | City | State | Zip |
|-----------------|------------------------------|------------|-------|-------|
| Sandoval County | 1500 Idalia Road, Building D | Bernalillo | NM | 87004 |

LANDFILL CAPACITY/MONITORING

| Capacity Used (cu yd) | Capacity Remaining (cu yd) | Remaining Life (yrs) | Unpermitted acres available for future disposal | Chages in operation reducing life 25% or more | Total acres used for disposal | Intermediate cover acres | Area seeded acres | Total acres with final cover |
|-----------------------|----------------------------|----------------------|---|---|-------------------------------|--------------------------|-------------------|------------------------------|
| 6165464.1 | 2712664 | 14.9 | 10 | 0 | 122.5 | 48.9 | 0 | 0 |

MATERIAL AND SOLID WASTE

| Material Type | Method | In-State Material Received | Out-of- State Material Received | Landfilled or Treated | Composted or Mulched | Beneficially Used | Treated, Disposed, Incinerated | Recycled, Mulched, Composted | Beneficially Used | Sent to Facility |
|-------------------|---------|----------------------------------|--|--------------------------|-------------------------|----------------------|--------------------------------------|------------------------------------|----------------------|--|
| Bio-Solids | Weighed | 35.51 | .00 | 35.51 | .00 | .00 | .00 | .00 | .00 | Sandoval County Landfill and Composting Facility |
| Brush/Green Waste | Weighed | 7640.99 | .00 | .00 | 7640.99 | .00 | .00 | .00 | .00 | Sandoval County Landfill and Composting Facility |
| C and D | Weighed | 80299.63 | .00 | 80299.63 | .00 | .00 | .00 | .00 | .00 | Sandoval County Landfill and Composting Facility |
| Clean Fill | Weighed | 11683.83 | .00 | .00 | .00 | 11683.83 | .00 | .00 | .00 | Sandoval County Landfill and Composting Facility |
| HHW | Weighed | 13.14 | .00 | .00 | .00 | .00 | 13.14 | .00 | .00 | OTHER-OUT-OF-STATE |
| MSW | Weighed | 96695.25 | .00 | 96695.25 | .00 | .00 | .00 | .00 | .00 | Sandoval County Landfill and Composting Facility |
| Scrap Tires | Weighed | 93.75 | .00 | 93.75 | .00 | .00 | .00 | .00 | .00 | Sandoval County Landfill and Composting Facility |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | 196462.1 | 0 | 177124.14 | 0 | 11683.83 | 13.14 | 0 | 0 | |

RECYCLABLE MATERIALS

[illegible]

CERTIFIED OPERATORS

[illegible]

DOCUMENTS

| |
|----------------------------------|
| Financial Assurance |
| Annual Reporting Information |
| Financial Assurance |
| Financial Assurance |
| Annual Reporting Information |
| Landfill Capacity Worksheet |
| Environmental Monitoring Summary |
| Annual Reporting Information |
| Environmental Monitoring Summary |
| Environmental Monitoring Summary |
| Financial Assurance |
| Landfill Capacity Worksheet |
| Annual Reporting Information |
| Environmental Monitoring Summary |
| Financial Assurance |
| Annual Reporting Information |
| Financial Assurance |
| Environmental Monitoring Summary |
| Landfill Capacity Worksheet |
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| |



Facility

ID: [chrisperea](#) [Log out](#)

[Operator and Owners](#) [Landfill Information](#) [Material and Solid Waste](#) [Recyclable Material](#) [Certified Operators](#) [Documents](#) [Contacts](#)

[Print
Annual
Report](#)

| | |
|-------------------|--|
| ID | LFP- 0245 |
| Facility Name | Sandoval County Landfill and Composting Facility |
| Facility Type | Landfill - permitted |
| County | Sandoval |
| Address | 2708 Iris NE |
| City | Rio Rancho |
| State | NM |
| Zip | 87144 |
| Contact Name | Christopher Perea |
| Phone | 505-269-6120 |
| Ext. | |
| Email | cperea@sandovalcountynm.gov |
| Physical Location | 2700 Iris RD Rio Rancho NM 87144-Sandoval County |
| Latitude | 35.30736 |
| Longitude | -106.62244 |
| Status | Open |

LFP- 0245 Submitted and locked 02/12/2021

page last updated 02/12/2021



Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Status |
|----------|--|----------------------|----------|-------------------|--------------|------------|-------|-------|--------------|------|-----------------------------|--|----------|-----------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Christopher Perea | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-269-6120 | | cperea@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | Open |

Operator and Owners

[Back to Master table](#)

ID: [chrisperea](#) [Log out](#)

| | | | |
|----------------|---|--|--|
| Check | <input type="checkbox"/> | Operator and Owners information needs to be revised | (Please note changes on Annual Reporting Information page) |
| Operator Name | Sandoval (County of) | | |
| Address | 2708 Iris RD | | |
| City | Rio Rancho | | |
| State | NM | | |
| Zip | 87144 | | |
| Owner Name | Sandoval (County of) | | |
| Address | 1500 Idalia Rd., Building D (P.O. Box 40) | | |
| City | Bernalillo | | |
| State | NM | | |
| Zip | 87004 | | |
| Landowner Name | Sandoval County | | |
| Address | 1500 Idalia Road, Building D | | |
| City | Bernalillo | | |
| State | NM | | |
| Zip | 87004 | | |

page last updated 02/12/2021



Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Status |
|----------|--|----------------------|----------|-------------------|--------------|------------|-------|-------|--------------|------|-----------------------------|--|----------|-----------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Christopher Perea | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-269-6120 | | cperea@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | Open |

Landfill Information

[Back to Master table](#)

[Archive](#)

ID: **chrisperea** [Log out](#)

[Edit](#)

| | |
|---|--------------------------|
| Year | |
| Capacity Used (cu yd) | 6,165,464.10 |
| Capacity Remaining (cu yd) | 2,712,664.00 |
| Remaining Life (yrs) | 14.90 |
| Unpermitted acres available for future disposal | 10.00 |
| Chages in operation reducing life 25% or more | <input type="checkbox"/> |
| Total acres used for disposal | 122.50 |
| Intermediate cover acres | 48.90 |
| Area seeded acres | 0.00 |
| Total acres with final cover | 0.00 |

Please attach Landfill Capacity Worksheet
(see Documents tab)

page last updated 02/12/2021



Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Status |
|----------|--|----------------------|----------|-------------------|--------------|------------|-------|-------|--------------|------|-----------------------------|--|----------|-----------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Christopher Perea | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-269-6120 | | cperea@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | Open |

Material and Solid Waste in tons



[Back to Master table](#)

[Archive](#)

ID: **chrisperea** [Log out](#)

[Add new](#)

[Delete selected](#)

|  |  | Year | Material Type | Method | In-State Material Received | Out-of-State Material Received | On-Site Landfilled / Treated | On-Site Recycled / Mulched / Composted | On-Site Beneficially Used | Off-Site Treated / Disposed / Incinerated | Off-Site Recycled / Mulched / Composted | Off-Site Beneficially Used | Sent to Facility |
|--|---|------|-------------------|---------|----------------------------|--------------------------------|------------------------------|--|---------------------------|---|---|----------------------------|--|
| Edit | <input type="checkbox"/> | | Clean Fill | Weighed | 11,683.83 | 0.00 | 0.00 | 0.00 | 11,683.83 | 0.00 | 0.00 | 0.00 | Sandoval County Landfill and Composting Facility |
| Edit | <input type="checkbox"/> | | C and D | Weighed | 80,299.63 | 0.00 | 80,299.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Sandoval County Landfill and Composting Facility |
| Edit | <input type="checkbox"/> | | Scrap Tires | Weighed | 93.75 | 0.00 | 93.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Sandoval County Landfill and Composting Facility |
| Edit | <input type="checkbox"/> | | HHW | Weighed | 13.14 | 0.00 | 0.00 | 0.00 | 0.00 | 13.14 | 0.00 | 0.00 | OTHER-OUT-OF-STATE |
| Edit | <input type="checkbox"/> | | Brush/Green Waste | Weighed | 7,640.99 | 0.00 | 0.00 | 7,640.99 | 0.00 | 0.00 | 0.00 | 0.00 | Sandoval County Landfill and Composting Facility |
| Edit | <input type="checkbox"/> | | MSW | Weighed | 96,695.25 | 0.00 | 96,695.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Sandoval County Landfill and Composting Facility |
| Edit | <input type="checkbox"/> | | Bio-Solids | Weighed | 35.51 | 0.00 | 35.51 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Sandoval County Landfill and Composting Facility |
| | | | | | Total: 196,462.10 | Total: 0.00 | Total: 177,124.14 | Total: 7,640.99 | Total: 11,683.83 | Total: 13.14 | Total: 0.00 | Total: 0.00 | |

page last updated 02/12/2021



Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Status |
|----------|--|----------------------|----------|-------------------|--------------|------------|-------|-------|--------------|------|-----------------------------|--|----------|-----------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Christopher Perea | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-269-6120 | | cperea@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | Open |

Recyclable Material in tons

[Back to Master table](#)

[Archive](#)

ID: **chrisperea**

[Log out](#)

[Add new](#)

[Delete selected](#)

| | | Year | Type of Recyclable | Method | In-State Material Received | Out-of-State Material Received | On-Site Beneficially Used or Re-Used | Off-Site Recycled or Processed | Off-Site Beneficially Used | Sent to Facility |
|----------------------|--------------------------|------|--------------------------|---------|----------------------------|--------------------------------|--------------------------------------|--------------------------------|----------------------------|--|
| Edit | <input type="checkbox"/> | | Cardboard (OCC) | Weighed | 66.14 | 0.00 | 0.00 | 66.14 | 0.00 | Master Fibers, Inc. |
| Edit | <input type="checkbox"/> | | Scrap Metals/White Goods | Weighed | 151.33 | 0.00 | 0.00 | 151.33 | 0.00 | OTHER-INSTATE |
| Edit | <input type="checkbox"/> | | Plastics | Weighed | 1.76 | 0.00 | 0.00 | 1.76 | 0.00 | Friedman Recycling Albuquerque MRF |
| Edit | <input type="checkbox"/> | | Electronic Scrap | Weighed | 5.75 | 0.00 | 0.00 | 5.75 | 0.00 | Albuquerque Computer and Electronics Recycling Co. |
| Edit | <input type="checkbox"/> | | Scrap Metals/White Goods | Weighed | 129.34 | 0.00 | 0.00 | 129.34 | 0.00 | Acme Iron & Metal |
| | | | | | Total: 354.32 | Total: 0.00 | Total: 0.00 | Total: 354.32 | Total: 0.00 | |

page last updated 02/12/2021



Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Status |
|----------|--|----------------------|----------|-------------------|--------------|------------|-------|-------|--------------|------|-----------------------------|--|----------|-----------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Christopher Perea | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-269-6120 | | cperea@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | Open |

Certified Operators

[Back to Master table](#)

ID: **chrisperea** [Log out](#)

Check



Certified Operators information needs to be revised

(Please note changes on Annual Reporting Information page)

Lee Yardman.....INACTIVE
Buster Roseberry.....INACTIVE
Tommy Mora, Jr.....INACTIVE
Michael F. Anderson.....INACTIVE
Robert M Sanchez.....ACTIVE
Russell R. Crockett.....INACTIVE
Elias J. Rivera.....INACTIVE
Koryn M Misbach.....ACTIVE
Jennifer Scacco.....INACTIVE
Christopher A. Perea.....ACTIVE
Susano S Archuleta.....ACTIVE
Peter Nieto.....ACTIVE
Zachariah A Keintz.....ACTIVE
Orlando R Pino.....ACTIVE
Mark Hatzenbuhler.....ACTIVE
Robert L kelley.....ACTIVE
William J Gallegos.....INACTIVE
Michael L Gonzales.....ACTIVE
Pete R Smith.....ACTIVE

page last updated 02/12/2021



Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Status |
|----------|--|----------------------|----------|-------------------|--------------|------------|-------|-------|--------------|------|-----------------------------|--|----------|-----------|--------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Christopher Perea | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-269-6120 | | cperea@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | Open |







Documents

[Back to Master table](#)

ID: **chrisperea** [Log out](#)

[Add new](#)

[Delete selected](#)

|  |  | Description | DOCUMENT |
|---|---|----------------------------------|---|
| Edit | <input type="checkbox"/> | Annual Reporting Information |  AR-Information2020_FINAL.pdf (311759 bytes) |
| Edit | <input type="checkbox"/> | Financial Assurance |  SCLF_CPC Cost Est Tables-2021 Update.pdf (122405 bytes) |
| Edit | <input type="checkbox"/> | Environmental Monitoring Summary |  Enviro-MonSumm2020_FINAL.pdf (235811 bytes) |
| Edit | <input type="checkbox"/> | Landfill Capacity Worksheet |  2020LandfillCapacityCalculation.pdf (127739 bytes) |

page last updated 02/12/2021



Master table: [Facility]

| SWB ID | Facility Name | Facility Type | COUNTY | Contact Name | Address | City | State | Zip | Phone | Ext. | Email | Physical Location | Latitude | Longitude | Notes | Status | Annual Rpt. |
|----------|--|----------------------|----------|-------------------|--------------|------------|-------|-------|--------------|------|-----------------------------|--|----------|-----------|-------|--------|--------------------------|
| LFP-0245 | Sandoval County Landfill and Composting Facility | Landfill - permitted | Sandoval | Christopher Perea | 2708 Iris NE | Rio Rancho | NM | 87144 | 505-269-6120 | | cperea@sandovalcountynm.gov | 2700 Iris RD Rio Rancho NM 87144-Sandoval County | 35.31 | -106.62 | | Open | <input type="checkbox"/> |

Contacts

[Back to Master table](#) ID: **chrisperea** [Log out](#)

[Add new](#) [Delete selected](#)

| | | Year | Role | Name | Phone | Email |
|------|--------------------------|------|---------|-------------------|--------------|-----------------------------|
| Edit | <input type="checkbox"/> | 2020 | Contact | Christopher Perea | 505-269-6120 | cperea@sandovalcountynm.gov |

page last updated 02/12/2021

Annual Reporting Information

| | |
|--|-------------------|
| Facility Name: Sandoval County Landfill & Composting Facility | Year: 2020 |
|--|-------------------|

| | |
|--|-------------------|
| Name of Person Completing Form: | Christopher Perea |
|--|-------------------|

| | |
|-----------------------------------|---|
| Phone Number: 505-867-0814 | Email Address: cperea@sandovalcountynm.gov |
|-----------------------------------|---|

| Average Landfill Tipping Fees | Average Transfer Station Tipping Fees |
|--------------------------------|---------------------------------------|
| MSW: \$28/TON | MSW: |
| Tires: \$3.50/TIRE | Tires: |
| Special Waste: \$38/TON | |

General Comments:

- PCS were not accepted at the landfill in 2020.
- Financial Assurance update for 2020 will be provided under separate cover, waiting on the Sandoval County Finance Department and County Commission approval (Scheduled for Thursday 2/18/2021).

Did you select "Other or Co-mingled" for a recyclable or solid waste material type(s) accepted at your facility?

If yes, name specific material(s):

No

Did you select "OTHER-IN/OUT OF-STATE" for a facility you sent solid waste or recyclable materials to?

If yes, name specific facility:

ACT Enviro (HHW), Alpha Appliance (White Goods)

Forms: Include additional notes on attached forms or why forms were not attached this year

Financial Assurance:

NA

Environmental Monitoring Summary:

NA

Landfill Capacity Worksheet:

NA

V. 2020 Landfill Capacity Worksheet

Landfill Capacity Calculation Worksheet for Sandoval County Landfill

All owners/operators are **required** to provide information regarding landfill capacity. To calculate your landfill's remaining capacity you may use: 1) this Excel worksheet 2) a terrain computer model program such as "TerraModel ToolPak" or 3) hire an engineering firm to complete the calculations. If you use the worksheet, it will calculate the values K, L and M for you; all you need to do is input the information as requested for Items A through J. Once completed, include this form as part of your Annual Report.

Enter your data here:

| Landfill information | | | |
|----------------------|--|------------|-------------|
| (A) | Total landfill area | 122.5 | Acres |
| (B) | Total permitted volume (gross capacity) | 13,813,058 | Cubic yards |
| (C) | Thickness of liner protective soil layer | 2.0 | Feet |
| (D) | Thickness of final cover | 4.0 | Feet |
| (E) | Estimated percentage of gross capacity taken by daily and intermediate covers (if unknown, use default value of 25%) | 25.0 | % |

| Waste Information | | | | | |
|---|--|-------------|-------------|-------------------------------------|--------------------------|
| Note: The worksheet allows you to enter the amount of received waste based on a combination of two different types of records: tonnage and gate-yards. Combined, these records should represent the total received waste. Mark appropriate boxes if values are actual or estimated. | | | | | |
| | | | | Actual | Estimated |
| (F) | Waste received through 2019 based on tonnage (if no tonnage receipts, enter "0") | 5,988,340.4 | Tons | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (G) | Waste received through 2019 based on gate-yards (if no gate-yard receipts, enter "0") | 0 | Cubic yards | <input type="checkbox"/> | <input type="checkbox"/> |
| (H) | Waste received in 2020 based on tonnage (if no tonnage receipts, enter "0") | 177,124.1 | Tons | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (I) | Waste received in 2020 based on gate-yards (if no gate-yard receipts, enter "0") | 0 | Cubic yards | <input type="checkbox"/> | <input type="checkbox"/> |
| (J) | Compaction rate of emplaced waste (for example, enter "3" for 3 to 1 compaction). If wastes are being compacted but compaction rate is unknown, enter default value of "2" for a conservative result. If no compaction, enter "1". | 3.0 | | | |

| Calculations | | | |
|---|--|-----------|-------------|
| Note: If the calculations are not performed automatically by the worksheet, complete them manually using the provided formulas. | | | |
| (K) | Net waste capacity $K = B - A \cdot (C + D) \cdot 4840 / 3 - B \cdot E / 100$ | 9,173,994 | Cubic yards |
| (L) | Remaining permitted waste capacity $L = K - (F + H) \cdot 6 / J - (G + I) / J$ | 2,712,664 | Cubic yards |
| (M) | Estimated remaining site life $M = L / (H \cdot 6 / J + I / J)$ | 14.9 | Years |

Form Completed by: Christopher Perea

Telephone number: 505-867-0814

NOTE:

K: 4,840 = square yards in acre

L: 6 = number of uncompacted cubic yards/ton

Category: All

Transactions from 01/01/2020 through 12/31/2020

Inbound and Outbound Tickets

Third Party and Intercompany Customers

Recycle and Disposal Material

Category Summary

D: CHRISTOPHER

| | Cubic Yards | Tons | Est Tons | Taxes | Disposal Amount | Amount |
|---|-------------|------------|----------|-------------|-----------------|----------------|
| CLF - CLEAN FILL DIRT <i>824 tickets and 824 transactions</i> | 0.00 | 11,254.80 | 0.00 | \$213.94 | \$18,669.49 | \$18,883.43 |
| CNCR - CONCRETE <i>148 tickets and 148 transactions</i> | 0.00 | 429.03 | 0.00 | \$0.00 | \$160.79 | \$160.79 |
| COMM - COMMERCIAL WASTE <i>4,036 tickets and 4,036 transactions</i> | 0.00 | 33,319.09 | 0.00 | \$0.00 | \$571,518.91 | \$571,518.91 |
| COMP - COMPACT <i>6,055 tickets and 6,055 transactions</i> | 0.00 | 49,488.82 | 0.00 | \$4,802.83 | \$927,783.40 | \$932,586.23 |
| CONS - CONSTRUCTION <i>27,052 tickets and 27,052 transactions</i> | 607.00 | 80,299.63 | 0.00 | \$65,525.45 | \$2,029,238.96 | \$2,094,764.41 |
| GRWS - GREENWASTE <i>17,117 tickets and 17,117 transactions</i> | 10,177.00 | 7,640.99 | 0.00 | \$4,885.07 | \$166,304.92 | \$171,189.99 |
| HHW - HOUSEHOLD HAZARDOUS WASTE <i>435 tickets and 435 transactions</i> | 0.00 | 0.00 | 0.00 | \$0.00 | \$7,645.00 | \$7,645.00 |
| MAT - MATTRESSES <i>1,979 tickets and 1,979 transactions</i> | 0.00 | 0.22 | 0.00 | \$0.00 | \$17,199.00 | \$17,199.00 |
| MULC - MULCH <i>1 ticket and 1 transaction</i> | 0.00 | 0.00 | 0.00 | \$0.00 | \$7.00 | \$7.00 |
| POST - COMPOST <i>11 tickets and 11 transactions</i> | 0.00 | 6.58 | 0.00 | \$1.30 | \$122.00 | \$123.30 |
| RES - RESIDENTIAL <i>47,005 tickets and 47,005 transactions</i> | 147.00 | 13,887.12 | 0.00 | \$1,740.18 | \$295,685.19 | \$297,425.37 |
| S. H. - SPECIAL HANDLING <i>4 tickets and 4 transactions</i> | 0.00 | 35.51 | 0.00 | \$53.01 | \$1,060.33 | \$1,113.34 |
| TIRE - TIRES <i>408 tickets and 408 transactions</i> | 0.00 | 93.75 | 0.00 | \$0.00 | \$16,407.10 | \$16,407.10 |
| TV - TELEVISIONS <i>584 tickets and 584 transactions</i> | 0.00 | 0.54 | 0.00 | \$0.00 | \$13,940.00 | \$13,940.00 |
| Report Grand Totals | 10,931.00 | 196,456.08 | 0.00 | \$77,221.78 | \$4,065,742.09 | \$4,142,963.87 |

105,659 tickets and 105,659 transactions

End of Report



Environmental Monitoring Summary

All currently permitted landfills and closed landfills in post-closure care are required to complete this form and attach to your Annual Report. Please note: This form is a summary of your Environmental Monitoring in accordance with your landfill permit and does not replace your full Environmental Monitoring reports to be submitted to the Solid Waste Bureau throughout the year.

Purpose of this form: To ensure compliance with the New Mexico Solid Waste Rules Section 20.9.5.16 NMAC: <https://www.env.nm.gov/wp-content/uploads/2018/05/1.24.12SolidWasteRuleswPharmacyFinal.pdf>

All Environmental Monitoring Reports are to be submitted to the Permitting Section Manager:

George.Schuman@state.nm.us

(505) 699-8779

Please contact the Permitting Section Manager directly for any questions related to submittal of your facility's Environmental Monitoring Reports

Facility Name: Sandoval County Landfill

1. Did you submit a Leachate Monitoring Report to the Permit Section Manager? (Please check box)

Yes: ☒ No: ☐ Date(s) Submitted: 3/31/20; 6/30/20; 9/30/20; 12/31/20

If not yet submitted, please indicate intended submittal date: N/A

Please indicate if monitoring results were within regulatory limits: Yes ☒ No ☐

2. Did you submit a Methane Monitoring Report to the Permit Section Manager? (Please check box)

Yes: ☒ No: ☐ Date(s) Submitted: 3/16/20; 7/7/20; 10/6/20; 12/2/20

If not yet submitted, please indicate intended submittal date: N/A

Please indicate if monitoring results were within regulatory limits: Yes ☒ No ☐

3. Did you submit a Ground Water Monitoring Report to the Permit Section Manager? (Please check box)

Yes: ☒ No: ☐ Date(s) Submitted: 9/24/2020

If not yet submitted, please indicate intended submittal date: N/A

Please indicate if monitoring results were within regulatory limits: Yes ☒ No ☐

4. Please use this space to provide any additional information:

TABLE VI.1.1
CLOSURE/POST-CLOSURE
COST ESTIMATE SUMMARY (Updated 01/2021)
Sandoval County Landfill

| TASK | 2015 COST ESTIMATE | 2016 COST ESTIMATE | 2017 COST ESTIMATE | 2018 COST ESTIMATE | 2019 COST ESTIMATE | 2020 COST ESTIMATE ⁽¹⁾ | |
|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|--|
| 1.0 CLOSURE CONSTRUCTION | \$2,908,411 | \$2,702,484 | \$2,786,313 | \$2,879,612 | \$2,963,234 | \$3,008,721 | |
| 2.0 LANDFILL MAINTENANCE | \$431,916 | \$442,715 | \$456,442 | \$470,594 | \$483,775 | \$491,035 | |
| 3.0 ENVIRONMENTAL MONITORING | \$489,753 | \$501,998 | \$517,561 | \$533,606 | \$548,548 | \$556,777 | |
| 4.0 COMPOSTING FACILITY | \$37,653 | \$38,642 | \$39,857 | \$41,114 | \$42,293 | \$42,937 | |
| 5.0 PHASE I/II ASSESSMENTS | \$232,327 | \$237,970 | \$245,143 | \$252,539 | \$259,425 | \$263,218 | |
| TOTAL COST ESTIMATE | \$4,100,061 | \$3,923,809 | \$4,045,316 | \$4,177,465 | \$4,297,274 | \$4,362,689 | |

Notes:

¹ Incorporates CPI-U Increase from 12/19 to 12/20 = 1.5%

CPI-U Increase obtained from Bureau of Labor Statistics (BLS), West Urban, "All Items Index" (January 13, 2021)

CPI-U = Consumer Price Index (unadjusted)

TABLE VI.1.2
CLOSURE CONSTRUCTION
CLOSURE COST ESTIMATE (Updated 01/2021)
Sandoval County Landfill

| TASK 1.0 | | | UNIT I | UNIT II | UNIT III | UNIT IV | Unit | 2019 Unit Cost | 2020 Unit Cost (With CPI Increase) | 2020 Total Cost |
|---|-----------------------------------|-------------------------------------|---------------|---------------|---------------|--------------|------|----------------------|---|-----------------------|
| | | | 29.4 acres | 19.5 acres | 63.6 acres | 0.0 acres | | | | |
| | | | Quantity | Quantity | Quantity | Quantity | | | | |
| 1.1 Final Cover Installation | Thickness Units I & II (ft) | Thickness Units III & IV (ft) | | | | | | | | |
| 1.1.1 Install Vegetative Layer | 0.5 | 0.5 | 23,716 | 15,730 | 51,304 | 0 | CY | \$3.15 | \$3.20 | \$290,400 |
| 1.1.2 Install and Compact Barrier Layer | 1.5 | 2.5 | 71,148 | 47,190 | 256,520 | 0 | CY | \$4.50 | \$4.57 | \$1,713,101 |
| 1.1.3 Install Intermediate Layer | 1 | 1 | 0 | 0 | 102,608 | 0 | CY | \$3.15 | \$3.20 | \$328,346 |
| 1.1.4 Vegetative Layer Seeding (Class A) | -- | -- | 29.4 | 19.5 | 63.6 | 0.0 | AC | \$1,910.76 | \$1,939.43 | \$218,186 |
| Task Subtotal | | | | | | | | | | \$2,550,033 |
| 1.2 Site Work | | | | | | | | | | |
| 1.2.1 Drainage Extensions | | | | 1 | | | LS | \$12,738.22 | \$12,929.30 | \$12,929 |
| 1.2.2 On-site Roadwork | | | | 1 | | | LS | \$25,476.40 | \$25,858.55 | \$25,859 |
| Task Subtotal | | | | | | | | | | \$38,788 |
| 1.3 Engineering | | | | | | | | | | |
| 1.3.1 Incremental Closure Workplans (Units I & II) | | | | 1 | | | LS | \$35,000.00 | \$35,000.00 | \$35,000 |
| 1.3.2 Design/Procurement | | | | 1 | | | LS | \$63,690.95 | \$64,646.32 | \$64,646 |
| 1.3.3 CQA Certification | | | | 1 | | | LS | \$38,214.59 | \$38,787.81 | \$38,788 |
| Task Subtotal | | | | | | | | | | \$138,434 |
| 1.4 HHW Operations | | | | | | | | | | |
| 1.4.1 Removal of Waste, Cleanup, and Certification | | | | 1 | | | LS | \$7,829.28 | \$7,946.72 | \$7,947 |
| Task Subtotal | | | | | | | | | | \$7,947 |
| SUBTOTAL | | | | | | | | | | \$2,735,201 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | | | | | | \$273,520 |
| TOTAL COST | | | | | | | | | | \$3,008,721 |

Notes:

- Closure costs are based on contracting with a qualified third party to complete and certify closure. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
- Final cover installation costs assume that:
 - The greatest area requiring final cover is approximately 112.5 acres, consisting of the total acreage for Units I-III.
 - Intermediate cover has already been installed on Units I & II.
 - Approximately 12" of Infiltration Layer material has already been installed on Units I & II.
- CY = Cubic Yards
AC = Acre
LS = Lump Sum

TABLE VI.1.3
LANDFILL MAINTENANCE
POST-CLOSURE COST ESTIMATE (Updated 01/2021)
Sandoval County Landfill

CPI-U Increase from 12/19 to 12/20 (Bureau of Labor Statistics, West Urban, "All Items Index" increase) = **1.5%**

| TASK 2.0 | Unit Quantity | Unit | 2019 Unit Cost | 2020 Unit Cost (With CPI Increase) | 2020 Total Cost Per Year | 2020 Total Cost For 30 Years |
|--|--------------------------|-------------|-------------------------------|---|---|---|
| 2.1 Final Cover Inspection and Reporting | | | | | | |
| 2.1.1 Inspection | 2 | events/yr | \$1,528.60 | \$1,551.53 | \$3,103 | \$93,092 |
| 2.1.2 Recordkeeping and Reporting | 1 | report/yr | \$1,528.60 | \$1,551.53 | \$1,552 | \$46,546 |
| Task Subtotal | | | | | \$4,655 | \$139,638 |
| 2.2 Final Cover Maintenance | | | | | | |
| 2.2.1 Cover Maintenance (Erosion) | 1 | AC/yr | \$1,120.06 | \$1,136.87 | \$1,137 | \$34,106 |
| 2.2.2 Vegetation | 2 | AC/yr | \$1,910.76 | \$1,939.43 | \$3,879 | \$116,366 |
| Task Subtotal | | | | | \$5,016 | \$150,472 |
| 2.3 Leachate Management System | | | | | | |
| 2.3.1 Inspection, Measurements, & Repairs | 2 | events/yr | \$448.03 | \$454.76 | \$910 | \$27,286 |
| 2.3.2 Pump Replacement (Every 5 years) | 1 | LS | \$728.04 | \$738.97 | \$123 | \$4,434 |
| 2.3.3 Removal & Disposal/Treatment | 1 | events/yr | \$560.04 | \$568.45 | \$568 | \$17,054 |
| 2.3.4 Recordkeeping and Reporting | 1 | report/yr | \$336.03 | \$341.08 | \$341 | \$10,232 |
| Task Subtotals | | | | | \$1,942 | \$59,005 |
| 2.4 Environmental Monitoring Network | | | | | | |
| 2.4.1 Inspection | 2 | events/yr | \$168.02 | \$170.55 | \$341 | \$10,233 |
| 2.4.2 Recordkeeping and Reporting | 1 | report/yr | \$336.03 | \$341.08 | \$341 | \$10,232 |
| Task Subtotals | | | | | \$682 | \$20,465 |
| 2.5 Surface Water Management System | | | | | | |
| 2.5.1 Inspection/Repairs | 2 | events/yr | \$504.53 | \$512.10 | \$1,024 | \$30,726 |
| 2.5.2 Channels/Basins Cleaning & Repairs | 1 | events/yr | \$504.53 | \$512.10 | \$512 | \$15,363 |
| Task Subtotals | | | | | \$1,536 | \$46,089 |
| 2.6 Site Security | | | | | | |
| 2.6.1 Inspection/Repairs | 2 | repairs/yr | \$504.53 | \$512.10 | \$1,024 | \$30,726 |
| Task Subtotal | | | | | \$1,024 | \$30,726 |
| SUBTOTAL | | | | | \$14,855 | \$446,395 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | \$1,486 | \$44,640 |
| TOTAL COST | | | | | \$16,341 | \$491,035 |

Notes:

1. Post-closure maintenance costs are based on contracting with a qualified third party to conduct post-closure care for the landfill. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
2. AC = Acre
LS = Lump Sum

TABLE VI.1.4
ENVIRONMENTAL MONITORING
POST-CLOSURE COST ESTIMATE (Updated 01/2021)
Sandoval County Landfill

CPI-U Increase from 12/19 to 12/20 (Bureau of Labor Statistics, West Urban, "All Items Index" increase) = **1.5%**

| TASK 3.0 | Unit Quantity | Unit | 2019 Unit Cost | 2020 Unit Cost (With CPI Increase) | 2020 Total Cost Per Year | 2020 Total Cost |
|--|--------------------------|--------------|-------------------------------|---|---|--------------------------------|
| 3.1 Landfill Gas Monitoring | | | | | | |
| 3.1.1 Field Services/Reporting (30 years) | 4 | events/yr | \$764.32 | \$775.79 | \$3,103 | \$93,095 |
| Task Subtotal | | | | | \$3,103 | \$93,095 |
| 3.2 Groundwater Monitoring (Reduced Analyte List) | | | | | | |
| 3.2.1 Field Services/Reporting (24 years) | 1 | events/yr | \$7,642.94 | \$7,757.59 | \$7,758 | \$186,182 |
| 3.2.2 Lab Analysis (24 years) | 1 | events/yr | \$3,210.05 | \$3,258.21 | \$3,258 | \$78,197 |
| Task Subtotal | | | | | \$11,016 | \$264,379 |
| 3.3 Groundwater Monitoring (Full Analyte List) | | | | | | |
| 3.3.1 Field Services/Reporting (6 years) | 1 | events/yr | \$7,642.94 | \$7,757.59 | \$7,758 | \$46,546 |
| 3.3.2 Lab Analysis (6 years) | 1 | events/yr | \$11,464.40 | \$11,636.37 | \$11,636 | \$69,818 |
| Task Subtotal | | | | | \$19,394 | \$116,364 |
| 3.4 Monitoring Well Abandonment | | | | | | |
| 3.4.1 Field Services/Reporting (6 wells) | 1 | single event | \$31,845.49 | \$32,323.18 | -- | \$32,323 |
| Task Subtotal | | | | | -- | \$32,323 |
| SUBTOTAL | | | | | \$33,513 | \$506,161 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | \$3,351 | \$50,616 |
| TOTAL COST | | | | | \$36,864 | \$556,777 |

Notes:

1. Post-closure environmental monitoring costs are based on contracting with a qualified third part to conduct post-closure monitoring for the landfill. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
2. Well abandonment costs are one-time costs.

TABLE VI.1.5
IN-VESSEL COMPOSTING FACILITY
CLOSURE COST ESTIMATE (Updated 01/2021)
Sandoval County Landfill

CPI-U Increase from 12/19 to 12/20 (Bureau of Labor Statistics, West Urban, "All Items Index" increase) =

1.5%

| TASK 4.0 | Unit Quantity | Unit | 2019 Unit Cost | 2020 Unit Cost (With CPI Increase) | 2020 Total Cost |
|--|--------------------------|-------------|-------------------------------|---|--------------------------------|
| 4.1 Waste Handling | | | | | |
| 4.1.1 Apply Cured Compost to Final Cover | 1,500 | CY | \$4.52 | \$4.59 | \$6,885 |
| 4.1.2 Transport and Place Containerized Compost | 500 | CY | \$25.51 | \$25.90 | \$12,950 |
| 4.1.3 Dispose of Accumulated Leachate | 5,000 | gallons | \$0.66 | \$0.67 | \$3,350 |
| Task Subtotal | | | | | \$23,185 |
| 4.2 Site Restoration | | | | | |
| 4.2.1 Dismantle and Remove Infrastructure | 1 | LS | \$3,184.58 | \$3,232.35 | \$3,232 |
| 4.2.2 Remove and Dispose of Concrete Pad | 250 | CY | \$25.51 | \$25.90 | \$6,475 |
| 4.2.3 Grade and Vegetate Surface | 3 | AC | \$955.40 | \$969.74 | \$2,909 |
| Task Subtotal | | | | | \$12,617 |
| 4.3 Inspection and Certification | 1 | LS | \$3,184.58 | \$3,232.35 | \$3,232 |
| Task Subtotal | | | | | \$3,232 |
| SUBTOTAL | | | | | \$39,034 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | \$3,903 |
| TOTAL COST | | | | | \$42,937 |

Notes:

1. CY = Cubic Yards
LS = Lump Sum
AC = Acre

TABLE VI.1.6
PHASE I/II ASSESSMENTS
COST ESTIMATE (Updated 01/2021)
Sandoval County Landfill

CPI-U Increase from 12/19 to 12/20 (Bureau of Labor Statistics, West Urban, "All Items Index" increase) =

1.5%

| TASK 5.0 | Unit Quantity | Unit | 2019 Unit Cost | 2020 Unit Cost (With CPI Increase) | 2020 Total Cost |
|--|--------------------------|-------------|-------------------------------|---|--------------------------------|
| Downgradient Wells (5) | | | | | |
| 5.1 Sampling and Analysis | | | | | |
| 5.1.1 Lab Analysis (Full Subsections B&C parameters) | 5 | samples | \$3,757.61 | \$3,813.98 | \$19,070 |
| 5.1.2 Field Services/Reporting | 1 | events | \$5,636.41 | \$5,720.96 | \$5,721 |
| Task Subtotal | | | | | \$24,791 |
| All Wells (6) | | | | | |
| 5.2 Sampling and Analysis | | | | | |
| 5.2.1 Lab Analysis (Subsection B detected parameters) | 24 | samples | \$1,878.83 | \$1,907.02 | \$45,768 |
| 5.2.2 Field Services/Reporting | 4 | events | \$5,636.41 | \$5,720.96 | \$22,884 |
| Task Subtotal | | | | | \$68,652 |
| All Wells (6) | | | | | |
| 5.3 Sampling and Analysis | | | | | |
| 5.3.1 Lab Analysis (Full Subsections A&C parameters) | 12 | samples | \$1,878.83 | \$1,907.02 | \$22,884 |
| 5.3.2 Lab Analysis (Subsection B detected parameters) | 12 | samples | \$1,878.83 | \$1,907.02 | \$22,884 |
| 5.3.3 Field Services/Reporting | 2 | events | \$5,636.41 | \$5,720.96 | \$11,442 |
| Task Subtotal | | | | | \$57,210 |
| New Wells (1) | | | | | |
| 5.4 New Well Installation, Sampling, and Analysis | | | | | |
| 5.4.1 Well Installation | 1 | wells | \$62,626.31 | \$63,565.71 | \$63,566 |
| 5.4.2 Lab Analysis (Full Subsections A&C parameters) | 2 | samples | \$1,878.83 | \$1,907.02 | \$3,814 |
| 5.4.3 Lab Analysis (Subsection B detected parameters) | 2 | samples | \$1,878.83 | \$1,907.02 | \$3,814 |
| 5.4.4 Field Services/Reporting | 2 | events | \$5,636.41 | \$5,720.96 | \$11,442 |
| Task Subtotal | | | | | \$82,636 |
| 5.5 Consultant Assessment | | | | | |
| 5.5.1 Phase I/Phase II Assessment and Corrective Action Program | 1 | LS | \$6,000.00 | \$6,000.00 | \$6,000 |
| Task Subtotal | | | | | \$6,000 |
| SUBTOTAL | | | | | \$239,289 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | \$23,929 |
| TOTAL COST | | | | | \$263,218 |

Notes:

1. Phase I and Phase II Assessment costs are based on contracting with a qualified third party to conduct the activities outlined above. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
2. Cost estimates are based on sampling and analysis of wells that are intended to be part of the groundwater monitoring network over the next 10 years, plus one additional well.
3. Task 5.4: Due to positive groundwater quality results to-date, only 1 new well is projected for installation at this time. In the event additional wells are needed for Phase I/Phase II assessment, the cost estimate for this Task will be updated.
4. Task 5.5: Assessment and Corrective Action cost for this update based on positive groundwater quality results to-date. This cost will be updated accordingly if Corrective Action is necessary.
5. LS = Lump Sum

MATERIAL AND SOLID WASTE

| Material Type | Method | In-State Material Received | Out-of-State Material Received | Landfilled or Treated | Composted or Mulched | Beneficially Used | Treated, Disposed, Incinerated | Recycled, Mulched, Composted | Beneficially Used | Sent to Facility |
|-------------------|---------|-------------------------------|-----------------------------------|-----------------------|----------------------|-------------------|--------------------------------------|------------------------------------|-------------------|------------------------|
| Brush/Green Waste | Weighed | 8067.90 | 0.00 | 0.00 | 8067.90 | 0.00 | 0.00 | 0.00 | 0.00 | |
| C and D | Weighed | 86112.79 | 0.00 | 86112.79 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Clean Fill | Weighed | 6861.88 | 0.00 | 0.00 | 0.00 | 6861.88 | 0.00 | 0.00 | 0.00 | |
| HHW | Weighed | .60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | OTHER- OUT-OF-STATE |
| MSW | Weighed | 89309.38 | 0.00 | 89309.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Scrap Tires | Weighed | 53.90 | 0.00 | 53.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
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| | | 190406.45 | 0 | 175476.07 | 0 | 6861.88 | 0 | 0 | 0 | |

RECYCLABLE MATERIALS

| Material Type | Method | In-State Material Received | Out-of-State Material Received | Beneficially Used | Recycled, Mulched, Composted | Beneficially Used | Sent to Facility |
|--------------------------|---------|----------------------------------|--------------------------------------|----------------------|------------------------------------|----------------------|--|
| Cardboard (OCC) | | 91.02 | 0.00 | 0.00 | 0.00 | 0.00 | Master Fibers, Inc. |
| Electronic Scrap | Weighed | .76 | 0.00 | 0.00 | 0.00 | 0.00 | Albuquerque Computer and Electronics Recycling Co. |
| Scrap Metals/White Goods | Weighed | 162.50 | 0.00 | 0.00 | 0.00 | 0.00 | OTHER-INSTATE |
| Scrap Metals/White Goods | Weighed | 122.92 | 0.00 | 0.00 | 0.00 | 0.00 | Acme Iron & Metal |
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CERTIFIED OPERATORS

[illegible]

DOCUMENTS

| |
|----------------------------------|
| Financial Assurance |
| Annual Reporting Information |
| Financial Assurance |
| Financial Assurance |
| Annual Reporting Information |
| Landfill Capacity Worksheet |
| Environmental Monitoring Summary |
| Annual Reporting Information |
| Environmental Monitoring Summary |
| Environmental Monitoring Summary |
| Financial Assurance |
| Landfill Capacity Worksheet |
| Annual Reporting Information |
| Environmental Monitoring Summary |
| Financial Assurance |
| Annual Reporting Information |
| Financial Assurance |
| Environmental Monitoring Summary |
| Landfill Capacity Worksheet |
| Annual Reporting Information |
| Environmental Monitoring Summary |
| Landfill Capacity Worksheet |
| Financial Assurance |
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Annual Reporting Information

Facility Name: Sandoval County Landfill Year: 2021

Name of Person Completing Form: Christopher Perea

Phone Number: 505-867-0814 Email Address: cperea@sandovalcountynm.gov

Average Landfill Tipping Fees

MSW: \$30/TON

Tires: \$2.50/TIRE

Special Waste: \$34/TON

Average Transfer Station Tipping Fees

MSW:

Tires:

General Comments:

-PCS were not accepted at the landfill in 2021.

Did you select "Other or Co-mingled" for a recyclable or solid waste material type(s) accepted at your facility?

If yes, name specific material(s):

No

Did you select "OTHER-IN/OUT OF-STATE" for a facility you sent solid waste or recyclable materials to?

If yes, name specific facility:

ACT Environmental (HHW), Alpha Appliance (White Goods)

Forms: Include additional notes on attached forms or why forms were not attached this year

Financial Assurance:

NA

Environmental Monitoring Summary:

NA

Landfill Capacity Worksheet:

NA

V. 2021 Landfill Capacity Worksheet

Landfill Capacity Calculation Worksheet for: Sandoval County Landfill

All owners/operators are **required** to provide information regarding landfill capacity. To calculate your landfill's remaining capacity you may use: 1) this Excel worksheet 2) a terrain computer model program such as "TerraModel ToolPak" or 3) hire an engineering firm to complete the calculations. If you use the worksheet, it will calculate the values K, L and M for you; all you need to do is input the information as requested for Items A through J. Once completed, include this form as part of your Annual Report.

Enter your data here:

| Landfill information | | | |
|----------------------|--|------------|-------------|
| (A) | Total landfill area | 122.5 | Acres |
| (B) | Total permitted volume (gross capacity) | 20,073,000 | Cubic yards |
| (C) | Thickness of liner protective soil layer | 2.0 | Feet |
| (D) | Thickness of final cover | 3.0 | Feet |
| (E) | Estimated percentage of gross capacity taken by daily and intermediate covers (if unknown, use default value of 25%) | 25.0 | % |

Waste Information

Note: The worksheet allows you to enter the amount of received waste based on a combination of two different types of records: tonnage and gate-yards. Combined, these records should represent the total received waste. Mark appropriate boxes if values are actual or estimated.

| | | | | Actual | Estimated |
|-----|--|------------|-------------|-------------------------------------|-------------------------------------|
| (F) | Waste received through 2020 based on tonnage (if no tonnage receipts, enter "0") | 0.0 | Tons | <input type="checkbox"/> | <input type="checkbox"/> |
| (G) | Waste received through 2020 based on gate-yards (if no gate-yard receipts, enter "0") | 10,925,500 | Cubic yards | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| (H) | Waste received in 2021 based on tonnage (if no tonnage receipts, enter "0") | 175,629.5 | Tons | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (I) | Waste received in 2021 based on gate-yards (if no gate-yard receipts, enter "0") | 0.0 | Cubic yards | <input type="checkbox"/> | <input type="checkbox"/> |
| (J) | Compaction rate of emplaced waste (for example, enter "3" for 3 to 1 compaction). If wastes are being compacted but compaction rate is unknown, enter default value of "2" for a conservative result. If no compaction, enter "1". | 3.0 | | | |

Calculations

Note: If the calculations are not performed automatically by the worksheet, complete them manually using the provided formulas.

| | | | |
|-----|--|------------|-------------|
| (K) | Net waste capacity $K = B - A \cdot (C + D) \cdot 4840 / 3 - B \cdot E / 100$ | 14,066,583 | Cubic yards |
| (L) | Remaining permitted waste capacity $L = K - (F + H) \cdot 6 / J - (G + I) / J$ | 10,073,491 | Cubic yards |
| (M) | Estimated remaining site life $M = L / (H \cdot 6 / J + I / J)$ | 28.7 | Years |

Form Completed by: Parkhill

Telephone number: 505-867-6990

NOTE:

K: 4,840 = square yards in acre

L: 6 = number of uncompacted cubic yards/ton

Category: All

Transactions from 01/01/2021 through 12/31/2021

Inbound and Outbound Tickets

Third Party and Intercompany Customers

Recycle and Disposal Material

Category Summary

D: CHRISTOPHER

| | Cubic Yards | Tons | Est Tons | Taxes | Disposal Amount | Amount |
|---|-------------|------------|----------|-------------|-----------------|----------------|
| CLF - CLEAN FILL DIRT <i>859 tickets and 859 transactions</i> | 0.00 | 6,654.86 | 0.00 | \$0.00 | \$44,888.13 | \$44,888.13 |
| CNCR - CONCRETE <i>102 tickets and 102 transactions</i> | 0.00 | 207.02 | 0.00 | \$6.28 | \$246.52 | \$252.80 |
| COMM - COMMERCIAL WASTE <i>5,046 tickets and 5,046 transactions</i> | 0.00 | 56,842.34 | 0.00 | \$0.00 | \$994,656.17 | \$994,656.17 |
| COMP - COMPACT <i>4,056 tickets and 4,056 transactions</i> | 0.00 | 23,807.27 | 0.00 | \$4,510.04 | \$511,588.63 | \$516,098.67 |
| CONS - CONSTRUCTION <i>32,758 tickets and 32,758 transactions</i> | 88.00 | 86,112.79 | 0.00 | \$74,668.51 | \$2,307,277.21 | \$2,381,945.72 |
| GRWS - GREENWASTE <i>15,503 tickets and 15,503 transactions</i> | 783.00 | 8,067.90 | 0.00 | \$5,250.74 | \$167,973.00 | \$173,223.74 |
| HHW - HOUSEHOLD HAZARDOUS WASTE <i>496 tickets and 496 transactions</i> | 11.00 | 0.60 | 0.00 | \$2.00 | \$10,020.00 | \$10,022.00 |
| MAT - MATTRESSES <i>2,151 tickets and 2,151 transactions</i> | 0.00 | 13.52 | 0.00 | \$0.00 | \$21,108.00 | \$21,108.00 |
| RES - RESIDENTIAL <i>37,717 tickets and 37,717 transactions</i> | 14.00 | 8,646.57 | 0.00 | \$0.00 | \$184,990.76 | \$184,990.76 |
| TIRE - TIRES <i>413 tickets and 413 transactions</i> | 0.00 | 53.95 | 0.00 | \$0.00 | \$11,351.50 | \$11,351.50 |
| TV - TELEVISIONS <i>536 tickets and 536 transactions</i> | 0.00 | 0.76 | 0.00 | \$0.00 | \$13,140.00 | \$13,140.00 |
| Report Grand Totals | 896.00 | 190,407.58 | 0.00 | \$84,437.57 | \$4,267,239.92 | \$4,351,677.49 |

99,632 tickets and 99,637 transactions

End of Report



Environmental Monitoring Summary

All currently permitted landfills and closed landfills in post-closure care are required to complete this form and attach to your Annual Report. Please note: This form is a summary of your Environmental Monitoring in accordance with your landfill permit and does not replace your full Environmental Monitoring reports to be submitted to the Solid Waste Bureau throughout the year.

Purpose of this form: To ensure compliance with the New Mexico Solid Waste Rules Section 20.9.5.16 NMAC: <https://www.env.nm.gov/wp-content/uploads/2018/05/1.24.12SolidWasteRuleswPharmacyFinal.pdf>

All Environmental Monitoring Reports are to be submitted to the Permitting Section Manager:

George.Schuman@state.nm.us

(505) 699-8779

Please contact the Permitting Section Manager directly for any questions related to submittal of your facility's Environmental Monitoring Reports

Facility Name: Sandoval County Landfill

1. Did you submit a Leachate Monitoring Report to the Permit Section Manager? (Please check box)

Yes: ☒ No: ☐ Date(s) Submitted: 3/31/2021; 6/30/2021; 9/30/2021; 12/30/2021

If not yet submitted, please indicate intended submittal date: N/A

Please indicate if monitoring results were within regulatory limits: Yes ☒ No ☐

2. Did you submit a Methane Monitoring Report to the Permit Section Manager? (Please check box)

Yes: ☒ No: ☐ Date(s) Submitted: 3/12/2021; 6/1/2021; 8/19/2021; 11/19/2021

If not yet submitted, please indicate intended submittal date: N/A

Please indicate if monitoring results were within regulatory limits: Yes ☒ No ☐

3. Did you submit a Ground Water Monitoring Report to the Permit Section Manager? (Please check box)

Yes: ☒ No: ☐ Date(s) Submitted: 8/25/2021

If not yet submitted, please indicate intended submittal date: N/A

Please indicate if monitoring results were within regulatory limits: Yes ☒ No ☐

4. Please use this space to provide any additional information:

TABLE VI.1.1
CLOSURE/POST-CLOSURE
COST ESTIMATE SUMMARY (Updated 01/2022)
Sandoval County Landfill

| TASK | 2015 COST ESTIMATE | 2016 COST ESTIMATE | 2017 COST ESTIMATE | 2018 COST ESTIMATE | 2019 COST ESTIMATE | 2020 COST ESTIMATE | 2021 COST ESTIMATE ⁽¹⁾ |
|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|
| 1.0 CLOSURE CONSTRUCTION | \$2,908,411 | \$2,702,484 | \$2,786,313 | \$2,879,612 | \$2,963,234 | \$3,008,721 | \$3,222,483 |
| 2.0 LANDFILL MAINTENANCE | \$431,916 | \$442,715 | \$456,442 | \$470,594 | \$483,775 | \$491,035 | \$525,899 |
| 3.0 ENVIRONMENTAL MONITORING | \$489,753 | \$501,998 | \$517,561 | \$533,606 | \$548,548 | \$372,458 | \$398,904 |
| 4.0 COMPOSTING FACILITY | \$37,653 | \$38,642 | \$39,857 | \$41,114 | \$42,293 | \$206,947 | \$221,677 |
| 5.0 PHASE I/II ASSESSMENTS | \$232,327 | \$237,970 | \$245,143 | \$252,539 | \$259,425 | \$263,218 | \$258,972 |
| TOTAL COST ESTIMATE | \$4,100,061 | \$3,923,809 | \$4,045,316 | \$4,177,465 | \$4,297,274 | \$4,342,379 | \$4,627,934 |

Notes:

¹ Incorporates CPI-U Increase from 12/20 to 12/21 = 7.1%

CPI-U Increase obtained from Bureau of Labor Statistics (BLS), West Urban, "All Items Index" (January 12, 2022)

CPI-U = Consumer Price Index (unadjusted)

TABLE VI.1.2
CLOSURE CONSTRUCTION
CLOSURE COST ESTIMATE (Updated 01/2022)
Sandoval County Landfill

| TASK 1.0 | | | UNIT I | UNIT II | UNIT III | UNIT IV | Unit | 2020 Unit Cost | 2021 Unit Cost (With CPI Increase) | 2021 Total Cost |
|--|--|--|---------------|---------------|---------------|--------------|------|----------------------|---|-----------------------|
| | | | 29.4 acres | 19.5 acres | 63.6 acres | 0.0 acres | | | | |
| | | | Quantity | Quantity | Quantity | Quantity | | | | |
| 1.1 Final Cover Installation | Thickness Units I & II (ft) | Thickness Units III & IV (ft) | | | | | | | | |
| 1.1.1 Install Vegetative Layer | 0.5 | 0.5 | 23,716 | 15,730 | 51,304 | 0 | CY | \$3.20 | \$3.43 | \$311,273 |
| 1.1.2 Install and Compact Barrier Layer | 1.5 | 2.5 | 71,148 | 47,190 | 256,520 | 0 | CY | \$4.57 | \$4.90 | \$1,836,804 |
| 1.1.3 Install Intermediate Layer | 1 | 1 | 0 | 0 | 102,608 | 0 | CY | \$3.20 | \$3.43 | \$351,945 |
| 1.1.4 Vegetative Layer Seeding (Class A) | -- | -- | 29.4 | 19.5 | 63.6 | 0.0 | AC | \$1,939.43 | \$2,077.13 | \$233,677 |
| Task Subtotal | | | | | | | | | | \$2,733,699 |
| 1.2 Site Work | | | | | | | | | | |
| 1.2.1 Drainage Extensions | | | | 1 | | | LS | \$12,929.30 | \$13,847.29 | \$13,847 |
| 1.2.2 On-site Roadwork | | | | 1 | | | LS | \$25,858.55 | \$27,694.51 | \$27,695 |
| Task Subtotal | | | | | | | | | | \$41,542 |
| 1.3 Engineering | | | | | | | | | | |
| 1.3.1 Incremental Closure Workplans (Units I & II) | | | | 1 | | | LS | \$35,000.00 | \$35,000.00 | \$35,000 |
| 1.3.2 Design/Procurement | | | | 1 | | | LS | \$64,646.32 | \$69,236.21 | \$69,236 |
| 1.3.3 CQA Certification | | | | 1 | | | LS | \$38,787.81 | \$41,541.75 | \$41,542 |
| Task Subtotal | | | | | | | | | | \$145,778 |
| 1.4 HHW Operations | | | | | | | | | | |
| 1.4.1 Removal of Waste, Cleanup, and Certification | | | | 1 | | | LS | \$7,946.72 | \$8,510.94 | \$8,511 |
| Task Subtotal | | | | | | | | | | \$8,511 |
| SUBTOTAL | | | | | | | | | | \$2,929,530 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | | | | | | \$292,953 |
| TOTAL COST | | | | | | | | | | \$3,222,483 |

Notes:

1. Closure costs are based on contracting with a qualified third party to complete and certify closure. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.

2. Final cover installation costs assume that:

- ▶ The greatest area requiring final cover is approximately 112.5 acres, consisting of the total acreage for Units I-III.
- ▶ Intermediate cover has already been installed on Units I & II.
- ▶ Approximately 12" of Infiltration Layer material has already been installed on Units I & II.

CY = Cubic Yards

AC = Acre

LS = Lump Sum

TABLE VI.1.3
LANDFILL MAINTENANCE
POST-CLOSURE COST ESTIMATE (Updated 01/2021)
Sandoval County Landfill

CPI-U Increase from 12/20 to 12/21 (Bureau of Labor Statistics, West Urban, "All Items Index" increase) = **7.1%**

| TASK 2.0 | Unit Quantity | Unit | 2020 Unit Cost | 2021 Unit Cost (With CPI Increase) | 2021 Total Cost Per Year | 2021 Total Cost For 30 Years |
|--|----------------------|-------------|-----------------------|---|---------------------------------|-------------------------------------|
| 2.1 Final Cover Inspection and Reporting | | | | | | |
| 2.1.1 Inspection | 2 | events/yr | \$1,551.53 | \$1,661.69 | \$3,323 | \$99,701 |
| 2.1.2 Recordkeeping and Reporting | 1 | report/yr | \$1,551.53 | \$1,661.69 | \$1,662 | \$49,851 |
| Task Subtotal | | | | | \$4,985 | \$149,552 |
| 2.2 Final Cover Maintenance | | | | 3323.38 | | |
| 2.2.1 Cover Maintenance (Erosion) | 1 | AC/yr | \$1,136.87 | \$1,217.59 | \$1,218 | \$36,528 |
| 2.2.2 Vegetation | 2 | AC/yr | \$1,939.43 | \$2,077.13 | \$4,154 | \$124,628 |
| Task Subtotal | | | | | \$5,372 | \$161,156 |
| 2.3 Leachate Management System | | | | | | |
| 2.3.1 Inspection, Measurements, & Repairs | 2 | events/yr | \$454.76 | \$487.05 | \$974 | \$29,223 |
| 2.3.2 Pump Replacement (Every 5 years) | 1 | LS | \$738.97 | \$791.44 | \$132 | \$4,749 |
| 2.3.3 Removal & Disposal/Treatment | 1 | events/yr | \$568.45 | \$608.81 | \$609 | \$18,264 |
| 2.3.4 Recordkeeping and Reporting | 1 | report/yr | \$341.08 | \$365.30 | \$365 | \$10,959 |
| Task Subtotals | | | | | \$2,080 | \$63,195 |
| 2.4 Environmental Monitoring Network | | | | | | |
| 2.4.1 Inspection | 2 | events/yr | \$170.55 | \$182.66 | \$365 | \$10,960 |
| 2.4.2 Recordkeeping and Reporting | 1 | report/yr | \$341.08 | \$365.30 | \$365 | \$10,959 |
| Task Subtotals | | | | | \$731 | \$21,919 |
| 2.5 Surface Water Management System | | | | | | |
| 2.5.1 Inspection/Repairs | 2 | events/yr | \$512.10 | \$548.46 | \$1,097 | \$32,908 |
| 2.5.2 Channels/Basins Cleaning & Repairs | 1 | events/yr | \$512.10 | \$548.46 | \$548 | \$16,454 |
| Task Subtotals | | | | | \$1,645 | \$49,361 |
| 2.6 Site Security | | | | | | |
| 2.6.1 Inspection/Repairs | 2 | repairs/yr | \$512.10 | \$548.46 | \$1,097 | \$32,908 |
| Task Subtotal | | | | | \$1,097 | \$32,908 |
| SUBTOTAL | | | | | \$15,910 | \$478,090 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | \$1,591 | \$47,809 |
| TOTAL COST | | | | | \$17,501 | \$525,899 |

Notes:

1. Post-closure maintenance costs are based on contracting with a qualified third party to conduct post-closure care for the landfill. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.

AC/yr = Acres/year

LS = Lump Sum

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Update_Maintenance

TABLE VI.1.4
ENVIRONMENTAL MONITORING
POST-CLOSURE COST ESTIMATE (Updated 01/2021)
Sandoval County Landfill

CPI-U Increase from 12/20 to 12/21 (Bureau of Labor Statistics, West Urban, "All Items Index" increase) = **7.1%**

| TASK 3.0 | Unit Quantity | Unit | 2020 Unit Cost | 2021 Unit Cost (With CPI Increase) | 2021 Total Cost Per Year | 2021 Total Cost |
|--|--------------------------|--------------|-------------------------------|---|---|--------------------------------|
| 3.1 Landfill Gas Monitoring | | | | | | |
| 3.1.1 Field Services/Reporting (30 years) | 4 | events/yr | \$775.79 | \$830.88 | \$3,324 | \$99,706 |
| Task Subtotal | | | | | \$3,324 | \$99,706 |
| 3.2 Groundwater Monitoring (Reduced Analyte List) | | | | | | |
| 3.2.1 Field Services/Reporting (24 years) | 1 | events/yr | \$787.43 | \$830.88 | \$831 | \$19,941 |
| 3.2.2 Lab Analysis (24 years) | 1 | events/yr | \$3,258.21 | \$3,489.55 | \$3,490 | \$83,749 |
| Task Subtotal | | | | | \$4,320 | \$103,690 |
| 3.3 Groundwater Monitoring (Full Analyte List) | | | | | | |
| 3.3.1 Field Services/Reporting (6 years) | 1 | events/yr | \$7,757.59 | \$8,308.38 | \$8,308 | \$49,850 |
| 3.3.2 Lab Analysis (6 years) | 1 | events/yr | \$11,636.37 | \$12,462.56 | \$12,463 | \$74,775 |
| Task Subtotal | | | | | \$20,771 | \$124,626 |
| 3.4 Monitoring Well Abandonment | | | | | | |
| 3.4.1 Field Services/Reporting (6 wells) | 1 | single event | \$32,323.18 | \$34,618.13 | -- | \$34,618 |
| Task Subtotal | | | | | -- | \$34,618 |
| SUBTOTAL | | | | | \$28,415 | \$362,640 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | \$2,841 | \$36,264 |
| TOTAL COST | | | | | \$31,256 | \$398,904 |

Notes:

1. Post-closure environmental monitoring costs are based on contracting with a qualified third part to conduct post-closure monitoring for the landfill. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
 2. Well abandonment costs are one-time costs.
- yr = year

TABLE VI.1.5
IN-VESSEL COMPOSTING FACILITY
CLOSURE COST ESTIMATE (Updated 01/2021)
Sandoval County Landfill

CPI-U Increase from 12/20 to 12/21 (Bureau of Labor Statistics, West Urban, "All Items Index" increase) =

7.1%

| TASK 4.0 | Unit Quantity | Unit | 2020 Unit Cost | 2021 Unit Cost (With CPI Increase) | 2021 Total Cost |
|--|--------------------------|-------------|-------------------------------|---|--------------------------------|
| 4.1 Waste Handling | | | | | |
| 4.1.1 Apply Cured Compost to Final Cover | 1,500 | CY | \$4.59 | \$4.92 | \$7,380 |
| 4.1.2 Transport and Place Containerized Compost | 500 | CY | \$25.90 | \$27.74 | \$13,870 |
| 4.1.3 Dispose of Accumulated Leachate | 5,000 | gallons | \$30.49 | \$32.66 | \$163,300 |
| Task Subtotal | | | | | \$184,550 |
| 4.2 Site Restoration | | | | | |
| 4.2.1 Dismantle and Remove Infrastructure | 1 | LS | \$3,232.35 | \$3,461.85 | \$3,462 |
| 4.2.2 Remove and Dispose of Concrete Pad | 250 | CY | \$25.90 | \$27.74 | \$6,935 |
| 4.2.3 Grade and Vegetate Surface | 3 | AC | \$969.74 | \$1,038.60 | \$3,116 |
| Task Subtotal | | | | | \$13,513 |
| 4.3 Inspection and Certification | 1 | LS | \$3,232.35 | \$3,461.85 | \$3,462 |
| Task Subtotal | | | | | \$3,462 |
| SUBTOTAL | | | | | \$201,525 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | \$20,152 |
| TOTAL COST | | | | | \$221,677 |

Notes:

CY = Cubic Yards

LS = Lump Sum

AC = Acre

TABLE VI.1.6
PHASE I/II ASSESSMENTS
COST ESTIMATE (Updated 01/2021)
Sandoval County Landfill

CPI-U Increase from 12/20 to 12/21 (Bureau of Labor Statistics, West Urban, "All Items Index" increase) =

7.1%

| TASK 5.0 | Unit Quantity | Unit | 2020 Unit Cost | 2021 Unit Cost (With CPI Increase) | 2021 Total Cost |
|--|----------------------|-------------|-----------------------|---|------------------------|
| Downgradient Wells (4) | | | | | |
| 5.1 Sampling and Analysis | | | | | |
| 5.1.1 Lab Analysis (Full Subsections B&C parameters) | 4 | samples | \$3,813.98 | \$4,084.78 | \$16,339 |
| 5.1.2 Field Services/Reporting | 1 | events | \$5,720.96 | \$6,127.15 | \$6,127 |
| Task Subtotal | | | | | \$22,466 |
| All Wells (5) | | | | | |
| 5.2 Sampling and Analysis | | | | | |
| 5.2.1 Lab Analysis (Subsection B detected parameters) | 20 | samples | \$1,907.02 | \$2,042.42 | \$40,848 |
| 5.2.2 Field Services/Reporting | 4 | events | \$5,720.96 | \$6,127.15 | \$24,509 |
| Task Subtotal | | | | | \$65,357 |
| All Wells (5) | | | | | |
| 5.3 Sampling and Analysis | | | | | |
| 5.3.1 Lab Analysis (Full Subsections A&C parameters) | 10 | samples | \$1,907.02 | \$2,042.42 | \$20,424 |
| 5.3.2 Lab Analysis (Subsection B detected parameters) | 10 | samples | \$1,907.02 | \$2,042.42 | \$20,424 |
| 5.3.3 Field Services/Reporting | 2 | events | \$5,720.96 | \$6,127.15 | \$12,254 |
| Task Subtotal | | | | | \$53,103 |
| New Wells (1) | | | | | |
| 5.4 New Well Installation, Sampling, and Analysis | | | | | |
| 5.4.1 Well Installation | 1 | wells | \$63,565.71 | \$68,078.88 | \$68,079 |
| 5.4.2 Lab Analysis (Full Subsections A&C parameters) | 2 | samples | \$1,907.02 | \$2,042.42 | \$4,085 |
| 5.4.3 Lab Analysis (Subsection B detected parameters) | 2 | samples | \$1,907.02 | \$2,042.42 | \$4,085 |
| 5.4.4 Field Services/Reporting | 2 | events | \$5,720.96 | \$6,127.15 | \$12,254 |
| Task Subtotal | | | | | \$88,503 |
| 5.5 Consultant Assessment | | | | | |
| 5.5.1 Phase I/Phase II Assessment and Corrective Action Program | 1 | LS | \$6,000.00 | \$6,000.00 | \$6,000 |
| Task Subtotal | | | | | \$6,000 |
| SUBTOTAL | | | | | \$235,429 |
| Independent Project Manager and Contract Administration Cost (10% of Task Totals) | | | | | \$23,543 |
| TOTAL COST | | | | | \$258,972 |

Notes:

1. Phase I and Phase II Assessment costs are based on contracting with a qualified third party to conduct the activities outlined above. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
 2. Cost estimates are based on sampling and analysis of wells that are intended to be part of the groundwater monitoring network over the next 10 years, plus one additional well.
 3. Task 5.4: Due to positive groundwater quality results to-date, only 1 new well is projected for installation at this time. In the event additional wells are needed for Phase I/Phase II assessment, the cost estimate for this Task will be updated.
 4. Task 5.5: Assessment and Corrective Action cost for this update based on positive groundwater quality results to-date. This cost will be updated accordingly if Corrective Action is necessary.
- LS = Lump Sum