

AGENDA PLACEMENT FORM

(Submission Deadline – Monday, 5:00 PM before Regular Court Meetings)

Date: _____

Meeting Date: 12/11/2023

Submitted By: County Judge's Office

Department: Public Works Department

Signature of Elected Official/Department Head:

| |
|--|
| Court Decision: <small>This section to be completed by County Judge's Office</small> |
| COMMISSIONERS COURT DEC 11 2023 Approved |

Description:

Acknowledgement of Notification by Texas Commission on Environmental
Quality (TCEQ) of an Application Summary of the Turkey Creek Landfill
Municipal Solid Waste Permit Amendment Application No. 1417D Submitted by
Texas Regional Landfill Company, LP-Public Works Department

(May attach additional sheets if necessary)

Person to Present: Jennifer VanderLaan

(Presenter must be present for the item unless the item is on the Consent Agenda)

Supporting Documentation: (check one) PUBLIC CONFIDENTIAL

(PUBLIC documentation may be made available to the public prior to the Meeting)

Estimated Length of Presentation: _____ minutes

Session Requested: (check one)

- Action Item Consent Workshop Executive Other _____

Check All Departments That Have Been Notified:

- County Attorney IT Purchasing Auditor
 Personnel Public Works Facilities Management

Other Department/Official (list) _____

**Please List All External Persons Who Need a Copy of Signed Documents
In Your Submission Email**

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Interim Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 21, 2023

Subject: Turkey Creek Landfill - Johnson County
Municipal Solid Waste - Permit Amendment Application No. 1417D
Application Summary for Agency Review
Tracking No. 27341370; RN100825462/CN601668486

Via Email

To whom it may concern:

We are currently evaluating an application submitted by Texas Regional Landfill Company for authorization of the above-referenced municipal solid waste landfill facility. Enclosed for your review is an Application Summary. The complete application may be found posted on the internet at the following website address: www.tceq.texas.gov/goto/mswapps.

Please submit any comments you may have within thirty (30) days from the date of this letter. If you have any questions or desire additional information, please contact Mr. Eric Clegg, P.G. at (512) 239-1270, eric.clegg@tceq.texas.gov, or in writing at the address on our letterhead (please include mail code MC 124 on the first line).

Sincerely,

A handwritten signature in blue ink that reads "Burgess Stengl".

Burgess Stengl, Team Leader
Municipal Solid Waste Permits Section
Waste Permits Division

BS/EJC/tw

Enclosure

**Application Summary
of the
Turkey Creek Landfill
Municipal Solid Waste Permit Amendment
Application No. 1417D**

**Type I Municipal Solid Waste Facility
Johnson County, Texas**

**Applicant:
Texas Regional Landfill Company, LP**

November 3, 2023

by the
Municipal Solid Waste Permits Section
Office of Waste, Waste Permits Division
Texas Commission on Environmental Quality

The information contained in this summary is based upon the permit application and has not been independently verified.

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1. Applicant Contact Information

Name of Applicant: Texas Regional Landfill Company, LP
3 Waterway Square Place, Suite 550
The Woodlands, Texas 77380

Name of Facility: Turkey Creek Landfill

Applicant's Contact Person: Mr. Gary Bartels, P.E.
3 Waterway Square Place, Suite 550
The Woodlands, Texas 77380
Phone No. (832) 442-2920

Applicant's Consulting Engineer: Mr. Nevzat Turan, P.E.
Weaver Consultants Group, LLC
6420 Southwest Blvd., Suite 206
Fort Worth, Texas 76109
Phone No. (817) 735-9770

2. General Information about the Application

2.1 Receipt of Application

Texas Regional Landfill Company, LP has applied to the Texas Commission on Environmental Quality (TCEQ) for a permit amendment to authorize the expansion of the existing Turkey Creek Landfill, a Type I municipal solid waste (MSW) landfill, in Johnson County, Texas. The application was received on March 7, 2022 and declared administratively complete on April 1, 2022. A *Notice of Receipt of Application and Intent to Obtain Municipal Solid Waste Permit* (NORI) was mailed by the TCEQ Office of the Chief Clerk on April 1, 2022. This Application Summary is being provided pursuant to Texas Health and Safety Code (THSC) Chapter 361 (Solid Waste Disposal Act), Section 361.067 (Review of Permit Application by Other Governmental Entities), and Title 30, Texas Administrative Code (30 TAC), Chapter 330, Section 330.23 (Relationships with Other Governmental Entities).

2.2 Application Scope

The application is for an amendment to an existing permit for an MSW landfill. The changes proposed in the permit amendment application include a vertical and horizontal expansion of the existing landfill waste disposal footprint only under MSW Permit No. 1417C. The maximum elevation of the final cover will be increased from 946 feet above mean sea level (ft-msl) to 996 ft-msl. The waste disposal footprint will expand horizontally by 25.6 acres, resulting in an increase from 146.4 acres to 172 acres. There will be no horizontal increase of the permitted area, which will remain at 219.6 acres. The average projected waste acceptance rate will be increased from approximately 900,000 tons per year to 1,100,000 tons per year. The landfill total capacity will increase from 26.9 million cubic yards (cy) to 37.7 million cy. The facility remaining site life is estimated to be 12.9 years.

2.3 Application Structure

The permit amendment application consists of Parts I - IV, described in 30 TAC §330.57 (relating to Permit and Registration Applications for MSW Facilities). The application documents become part of the permit, if issued. Parts I and II of the application provide information about the proposed facility, property ownership, the surrounding land use, traffic impact, waste acceptance, and location restrictions; Part

III of the application is the Site Development Plan and provides detailed information on site geology and hydrogeology, facility engineering and monitoring system designs and plans, and closure and post-closure care plans and cost estimates; and Part IV of the application is the Site Operating Plan that contains information about how the owner or operator will conduct daily operations at the facility.

The amendment application proposes an increase in maximum elevation and capacity; therefore a full permit application was required and submitted pursuant to 30 TAC §305.62(j)(1).

2.4 Availability of Application Materials

The entire application is available for viewing and copying at Alvarado Public Library, 210 Baugh Street, Alvarado, Texas 76009, and may be viewed online at <http://www.ftwweaverboos.com>.

2.5 Attachments to this Application Summary

Maps from the permit amendment application showing site location, nearby land use, and site development are attached to this summary.

| Attachment to this Application Summary | Description | Location in Application |
|---|--------------------|--------------------------------|
| Attachment 1 | Site Location Map | Parts I/II, Figure I/II-4.1 |
| Attachment 2 | Site Plan | Parts I/II, Figure I/II-A.1 |
| Attachment 3 | Land Use Map | Parts I/II, Figure I/II-7.2 |

3. **Part I of the Application (30 TAC §281.5, §305.45, and §330.59)**

3.1 Facility Location

The facility is located at 9100 S. Interstate 35 W., Alvarado, Texas 76009 in Johnson County. The location is shown in Attachment 1 (Site Location Map) to this Application Summary.

3.2 Access Routes

The site is accessed via Interstate Hwy 35 W. (IH-35W), and County Road 107.

3.3 Coordinates and Elevation of Facility Permanent Benchmark

Latitude: N 32° 21' 27"

Longitude: W 97° 12' 14"

Elevation: 684.64 ft-msl

3.4 Size of Facility and Capacity of Landfill

The facility would include 219.6 acres within the proposed permit boundary, of which approximately 172 acres will be used for waste disposal. The maximum elevation of the final cover system will be 996 ft-msl.

The existing landfill under MSW Permit No. 1417C has a total volume (including waste and daily cover) of approximately 26.9 million cubic yards. The proposed permit amendment would expand the waste disposal footprint horizontally and vertically and add approximately 10.8 million cubic yards of volume. The proposed landfill would have a total disposal volume (including waste and daily cover) of approximately 37.7 million cubic yards.

3.5 Property Owner Information

The application includes a property owner affidavit signed by Mr. Gary Bartels, Southern Region Engineer, as the authorized signatory for Texas Regional Landfill Company, LP.

3.6 Evidence of Competency

Texas Regional Landfill Company is a wholly owned subsidiary of Waste Connections Lone Star, Inc., which either owns, operates, or maintains a financial interest in several Texas facilities. Waste Connections US, Inc., acquires, operates and develops nonhazardous waste disposal facilities on a national basis. Further information about the applicant's competency is provided in Section 16 in Parts I/II of the application.

4. Part II of the Application (30 TAC §330.61)

4.1 Sources of Wastes to be Accepted

The facility accepts wastes from public and private entities in and around Johnson County and surrounding counties.

4.2 Type of Wastes to be Accepted

The facility will accept household wastes, yard waste, commercial solid waste, nonhazardous industrial waste, construction-demolition waste, and special wastes in accordance with conditions of the permit.

4.3 Wastes Prohibited or Not Authorized to be Accepted

Any other waste which is not listed in the *Type of Waste to be Accepted* section of this permit, or which is prohibited by §330.15(e) may not be accepted.

4.4 Waste Acceptance Rate and Site Life

Authorized wastes will be accepted initially at the current rate of approximately 3,497 tons per day and is projected to increase to an estimated maximum of 4,270 tons per day. The estimated site life is 12.9 years. The site life may be longer if the actual waste acceptance rate is less than anticipated, or shorter if the actual waste acceptance rate is greater than anticipated.

4.5 Facility Layout

The facility layout is illustrated in Attachment 2 (Site Plan) to this Application Summary.

4.6 Land Use and Characteristics of Surrounding Area

4.6.1 Zoning and Conformance with Local Use Ordinance

The proposed facility is located within the extra-territorial jurisdiction of the City of Alvarado, but not subject to the City of Alvarado zoning requirements. Zoning within one mile of the facility is shown in Attachment 3 (Land Use map) to this Application Summary.

4.6.2 Surrounding Land Uses within One Mile

Surrounding land uses are commercial and residential; other land uses include an airport and one church.

4.6.3 Growth Trends within Five Miles

The growth trend in the vicinity of the facility is slow, and is essentially the growth trend of the City of Alvarado, located within five miles of the site. It consists mostly of trailers and single homes located on rural acreage. Several commercial and light industrial development have also been observed north of the landfill toward Alvarado. Both the residential and non-residential growth are promoted by the access provided by IH-35W bordering the eastern boundary of the facility.

4.6.4 Proximity to Residences and Other Uses within One Mile

Alvarado has an estimated population of 4,647 with the nearest residence located within 50 feet of the southwest property boundary. The nearest business is located to the north, approximately 145 feet fence line to fence line between the properties. A private airfield is located about 500 feet south of the landfill property. A church was identified on County Road 313, approximately 4,300 feet west of the property boundary.

4.6.5 Known Wells within 500 Feet of the Facility

Only one water well is located within 500 feet of the facility. It is the landfill onsite water well, located within the permit boundary. The applicant is required to ensure that any unused wells discovered to be located within the facility are plugged in accordance with applicable requirements. The applicant is required to submit a copy of any plugging report within 30 days after the wells have been plugged.

4.7 Transportation

The facility site is easily accessed from IH-35W. In addition, the following roads will be used to access the site: County Roads 313, 107, 204 and 401 and Farmer to Market Road 2415. The application states that a traffic study was prepared and that access roads within one mile of the landfill provide adequate access to the site.

The application contains documentation of the applicant's coordination with the Texas Department of Transportation (TxDOT) for potential traffic and location restrictions.

TXDOT issued a letter indicated no objection to the permit amendment, which was submitted to the TCEQ on December 16, 2022.

4.8 Abandoned Oil and Water Wells

According to the application, no petroleum wells were found within 500 feet of the facility. No water wells within the facility are reported as plugged and abandoned.

4.9 Texas Historical Commission Review

The application contains the applicant's correspondence with the Texas Historical Commission (THC). The applicant stated that THC identified no historic properties that might be affected by the landfill. The THC response letter was submitted to the TCEQ on December 16, 2022.

4.10 Council of Governments (COG) and Local Government Review

The application states that the expansion of the landfill is consistent with the North Central Texas Council of Governments' (NTCCOG) regional waste management plan. The application contains the applicant's correspondence with the NTCCOG, including a response letter indicating no objection to the permit amendment. The NTCCOG response letter was submitted to the TCEQ on December 16, 2022.

4.11 Location Restrictions

The application addresses location restriction provisions pursuant to Part II and Chapter 330, Subchapter M (relating to Location Restrictions) as follows.

4.11.1 Easements and Buffer Zones, §330.543

The application indicates that several easements were located outside of the waste footprint and within the permit boundary under the existing permit. The footprint expansion will cross the BP pipeline easement. The easement in the proposed waste disposal footprint expansion will be moved outside the footprint prior to construction.

A minimum buffer zone of 125 feet was established around the site except to the northwest where the existing 90 feet buffer was previously authorized.

No solid waste unloading, storage, disposal, or processing operations may occur within any easement, buffer zone, or right-of-way that crosses the facility. No solid waste disposal may occur within 25 feet of the center line of any utility line or pipeline easement.

4.11.2 Airport Safety, §330.545

The application indicates that Luscombe Acres Airport, a small privately-owned turf runway airfield, is located within 5,000 feet radius of the site. A second airport (Ranch Flock) also a grass airfield is shown within 10,000 feet. Neither of these airports are suitable for turbo-jet aircrafts.

The application also indicates that the Drennan Airport and Hodges Airfield, both with asphalt runways are within a six-mile radius of the landfill. No large general public commercial airports are located within a six-mile radius and no small general service airports are located within a five-mile radius of the site. The applicant filed a notification of the proposed landfill expansion to the

Federal Aviation Administration (FAA); the FAA determined that the proposed changes to the site do not pose a hazard to air navigation.

4.11.3 Floodplains, §330.547

Part of the facility's northern permit boundary is located within the Turkey Creek Floodplain. The amendment application includes a Conditional Letter of Map Revision (CLOMR) requested from the Federal Emergency Management Agency (FEMA). The approval from FEMA was submitted to the TCEQ on October 26, 2023.

4.11.4 Groundwater, §330.549

The requirement of §330.549(a) does not apply since the facility is not located on the recharge zone of the Edwards Aquifer. The existing Class 1 waste disposal sector includes a five-foot-thick clay plug separation barrier beneath the compacted clay liner system, meeting the requirement in 30 TAC §335.584(b)(1). The separation between the floor grades of Class 1 waste sectors and the regional Woodbine Aquifer ranges from 11 to 38 feet; the vertical permeability of the non-saturated formation in-between ranges from 1.9×10^{-9} cm/sec to 7.8×10^{-8} cm/sec. The facility is therefore in compliance with 30 TAC §335.584(b)(2).

4.11.5 Endangered or Threatened Species, §330.551

The application states that a site specific threatened and endangered species habitat assessment was conducted, which concluded that the area within the permit boundary does not provide a habitat for and would not likely be occupied by any federally listed or state listed threatened or endangered species. The application contains correspondence with the U.S. Fish and Wildlife Service and the Texas Parks and Wildlife Department (TPWD). The TPWD response letter with recommendations was submitted to the TCEQ on December 16, 2022.

4.11.6 Wetlands, §330.553

The application indicates that there are no jurisdictional wetland areas within the permit boundary. The application indicates that the facility submitted a jurisdictional determination of waters of the U.S. to the Army Corps of Engineers (USACE) and the USACE response with concurrence of exemption was included with the application.

4.11.7 Fault Areas, §330.555

There are no known faults within 200 feet of the site in accordance with 30 TAC §330.555.

4.11.8 Seismic Impact Zones, §330.557

The facility is not located within a seismic impact zone as defined in 30 TAC §330.557.

4.11.9 Unstable Areas, §330.559

No known unstable areas, as defined in 30 TAC §330.559, were found at the site.

4.11.10 Coastal Areas, §330.561

The proposed facility is not located on a barrier island or peninsula; or within 1,000 feet of an area subject to active coastal shoreline erosion (if the area is protected by a barrier island or peninsula), or within 5,000 feet of an area subject to active coastal shoreline erosion if the area is not protected by a barrier island or peninsula.

5. Part III of the Application, Site Development Plan (30 TAC §330.63)

5.1 Surface Water Drainage

The application includes a surface water drainage report, which discusses how stormwater will be managed at the facility using structures for surface drainage and stormwater run-on/runoff control. Structures include a perimeter drainage system consisting of perimeter channels and detention ponds. The application states that the continued development of the landfill facility will not have any adverse impact on the currently permitted drainage patterns.

5.2 Waste Management Units Proposed

The permit would authorize the operation of a Type I MSW landfill with a total disposal volume (including waste and daily cover) of approximately 37.7 million cy.

The facility will consist of a site entrance with security fencing, a gatehouse/scale, a paved entrance road to the site, all-weather access roads, soil stockpiles, landfill gas monitoring and collection system, leachate collection system, contaminated water management system, groundwater monitoring system, stormwater drainage/management structures, the solid waste disposal area, and solid waste processing/storage areas.

5.3 Landfill Unit Design, Construction, and Operation

5.3.1 Maximum and Minimum Elevations of Waste Placement

The maximum elevation of waste placement will be 992.5 ft-msl. The minimum elevation of the proposed landfill liner system is 648 ft-msl; this is also the elevation of deepest excavation (EDE), which occurs in Sector 1A and is not proposed to change from the existing permit.

5.3.2 Liner System

A liner system meeting the requirements of 30 TAC Chapter 330 Subchapter H (relating to Liner System Design and Operation) will continue to be installed following the liner quality control plan. New liner systems will be constructed within undeveloped areas as they are constructed and consist of the following components (listed in order from top to bottom of liner system):

- 24-inch-thick protective cover
- Drainage Geocomposite
- 60-mil HDPE geomembrane
- 3 feet compacted clay liner (an overliner system will be installed over pre-Sub D area)

5.3.3 Leachate Collection System

The leachate collection system is currently in operation and is designed to meet the requirements of 30 TAC §330.333 and will be placed on top of the liner system in the proposed expansion areas as well. The leachate collection system consists of a drainage layer, collection trenches, pipes, sumps, risers, and pumps. Leachate recirculation is proposed to continue for the facility.

5.4 Other Unit Design, Construction, and Operation

The existing landfill includes a pre-Subtitle D area. The application proposes to install an overliner system on top of the buried wastes; new waste will be deposited on the overliner system.

The application indicates that the existing liquid waste solidification facility will be used to solidify liquid waste (solid waste that contains free liquid/water) before the waste can be disposed of in the landfill.

5.5 Arid Exemption

The application does not seek arid exemption.

5.6 Geology Report

The site is located on the Cretaceous Woodbine Formation consisting predominantly of sand, sandstone, clay, shale, and lignite deposited in fluvial and marine deltaic environments. The Woodbine Formation overlies unconformably the Washita Group, and includes the Woodbine Aquifer, classified by the Texas Water development Board as a minor aquifer. The Washita Group, about 200 feet below the landfill site, consists typically of low permeability limestone, marl and clay and constitutes the lower confining unit (aquiclude) for the Woodbine Aquifer. The Fredericksburg and Trinity Groups, respectively 200 and 1,000 feet thick, underlay the Washita Group.

A soil boring plan for the facility expansion was submitted to the TCEQ and approved on April 8, 2021, prior to the subsurface investigation. The approved soil boring plan consisted of 122 preexisting boreholes and 12 new borings, of which 56 were drilled to an elevation at least 5 feet below the EDE of 648 feet, and 22 boreholes reached a depth of at least 30 feet below the EDE.

Based on the subsurface investigation, three distinct strata were identified. From the surface down they are:

- Upper Sand Unit: sand, clayey sand, sandy clay, clay, silty clay, silty sand, and silt with minor occurrences of gravel. The unit formed from in-situ weathering of the Woodbine and deposition of quaternary alluvium.
- Bounding Shale Unit: sandy shale, clayey shale, and silty shale interbedded with laminations of silt, sand, and sandstone. The presence in this stratum of organics, fossils, gypsum, pyrite, chert nodules, lignite, and limestone seams were verified in several of boreholes.
- Lower Sand Unit: Coarse grained sediments (sand, sandstone, silty sand, and clay seams) bounded by and interbedded within the Bounding Shale.

According to the report, the Upper Sand, Bounding Shale, and Lower Sand units constitute the uppermost aquifer, perched over the Woodbine Aquifer zone. It is inferred that below the Lower Sand Unit, the continuation downward of the Bounding Shale seals off the Woodbine Aquifer from the regulated uppermost aquifer above it. The application states that the two aquifers are not interconnected.

5.7 Groundwater Monitoring

The groundwater monitoring system is currently maintained and operated to detect releases from the facility. The system consists presently of 18 monitoring wells, including 16 point of compliance (POC) wells and two background wells. The spacing between POC wells is less than 600 feet. The amendment proposes to install four additional POC wells and one new background well, and convert several existing piezometers to monitoring wells while abandoning existing wells that will be replaced in the monitoring network due to the waste disposal footprint expansion. The final groundwater monitoring system will be 22 monitoring wells, consisting of 19 POC wells and three background wells.

The groundwater monitor wells will be sampled, and the samples analyzed in accordance with the procedures in the Groundwater Sampling and Analysis Plan.

Monitoring results have shown no statistical exceedances as of the most recent monitoring event, and all monitoring wells are in detection status.

5.8 Landfill Gas Management

The existing landfill gas monitoring system consists of 13 permanent gas monitoring probes (GMP) and seven utility trench vents. The inter-probe spacing is approximately 1,000 feet with a wider spacing of 1,500 feet between GMP-4 and GMP-5A. No monitoring probes were installed along the facility northern boundary due to the presence of Turkey Creek, which acts as a natural barrier to any landfill gas migration in this area. Instead, a utility trench vent was installed for the gas pipeline along the northern permit boundary. The three existing enclosed structures within the facility and all new enclosed structures from future developments will be equipped with continuous monitor/alarm that provides an audible alarm if methane concentrations exceed 1.25% methane by volume.

For the proposed expansion, the existing monitoring probe network will be modified to abandon and redrill nine existing probes and install four more for a total of 17 GMPs.

TCEQ regulations require that gas monitoring be conducted quarterly to detect migration of methane gas beyond the facility property boundary and in enclosed structures within the facility property boundary.

5.9 Landfill Closure

The application includes a closure plan that describes a final cover system designed and constructed to minimize infiltration and erosion.

5.9.1 Final Cover System

To date no final cover has been placed at the site. To meet the requirements of 30 TAC Chapter 330, Subchapter K (relating to Closure and Post-Closure) the facility is proposing both standard Subtitle D and alternative final cover systems to be placed on top of the waste to provide low maintenance cover and protect against erosion and percolation through the cover.

More specifically, each sector will be covered with either a composite final cover (standard Subtitle D) or Water Balance final cover system (alternative). Listed in order from top to bottom the composite liner will consist of the following:

- 12-inch erosion layer of earthen material capable of supporting native plant growth (18-inch erosion layer over Class 1 waste areas)
- geocomposite drainage layer (single sided on top slopes and double sided on side slopes)
- 40-mil LLDPE geomembrane (smooth on top slopes and textured on side slopes)
- 18-inch compacted clay infiltration layer consisting with a hydraulic conductivity of no more than 1×10^{-5} cm/sec (4-foot-thick compacted clay with a hydraulic conductivity of no more than 1×10^{-7} cm/sec over Class 1 waste areas)

Two options are being considered for the Water Balance cover system (see Table IIIJ-1 and Appendix III).

5.10 Post-Closure Care

The application includes a post-closure care plan that describes how the permittee will maintain the site throughout the post-closure care period. The nominal post-closure care period for this facility, which contains one Type I unit, is 30 years. During the post-closure care period, the owner or operator will maintain and operate the leachate collection system, maintain the groundwater monitoring system and monitor groundwater, and maintain and operate the landfill gas monitoring system.

5.11 Cost Estimates for Closure and Post-Closure Care, and Financial Assurance

The application includes a written cost estimate showing the cost of hiring a third party to close the largest waste fill area that could potentially be open in the year to follow and those areas that have not received final cover.

The application also includes a written cost estimate showing the cost of hiring a third party to conduct activities required during post-closure care.

Authorization to operate this facility would be contingent upon the maintenance of financial assurance in accordance with 30 TAC Chapter 330 Subchapter L (relating to Closure, Post-Closure, and Corrective Action Cost Estimates) and Chapter 37, Subchapter R (relating to Financial Assurance for MSW Facilities) for closure and post-closure care.

6. Part IV of the Application, Site Operating Plan (30 TAC §330.65)

6.1 Scope, §330.127

Part IV of the Application—the Site Operating Plan—details recordkeeping requirements and discusses how the owner or operator will conduct operations at the facility.

6.2 Facility Supervisor, §330.127(1)

A licensed solid waste facility supervisor will be employed by the facility as required by 30 TAC Chapter 30, Subchapter F (relating to Occupational Licenses and Registrations, MSW Facility Supervisors) before the facility commences operation.

6.3 Detection and Prevention of Disposal of Prohibited Wastes, §330.127(5)

The Site Operating Plan contains procedures for the detection and prevention of the disposal of prohibited wastes, including regulated hazardous waste.

6.4 Fire Protection, §330.129

The Site Operating Plan contains a fire protection plan that details fire protection measures for landfill unit and for any other individual activity or type of unit at the facility.

6.5 Access Control, §330.131

Access to the facility will be controlled by a perimeter fence and a gate which will be manned when the facility is open, and locked when the facility is not operating.

6.6 Facility Operating Hours, §330.135

The application proposes that the operating hours (waste acceptance hours and the facility operating hours when materials will be transported on or off site, and the hours when heavy equipment may operate) will remain at the currently approved 24 hours per day, seven days per week.

The actual facility operating hours may vary within a 24-hour period depending on incoming volumes of waste. The actual operating hours will be posted on the site entrance sign.

6.7 Materials Along Route to Site, §330.145

At least once daily when the facility is in operation, public access roads serving the facility will be inspected and cleaned of spilled materials and windblown waste for a distance of two miles in either direction from the site entrance.

6.8 Odor Management Plan, §330.149

The odor management plan contains identification of potential sources of odors and methods to reduce odors/odor sources. The site personnel will evaluate use of other necessary measures. The site personnel will evaluate the perimeter of the site daily to assess the performance of site operations to control odors.

6.9 Disease Vector Control, §330.151

Landfill personnel will control on-site populations of disease vectors, which include rodents, excessive bird populations, flies, mosquitoes, and other insects or animals capable of transmitting diseases to humans. The primary means of control will be to prevent, inhibit, or deter vectors from coming into contact with deposited waste through proper waste compaction and daily cover application. If necessary, a licensed commercial pesticide applicator, or other qualified pest control specialist will be used in vector management. Birds will also be controlled.

6.10 Landfill Daily Cover, §330.165

The waste disposal working face will be covered once a day; the daily cover material will be six inches of soil (not previously mixed with waste) or an approved alternative daily cover.

6.11 Disposal of Special Wastes, §330.171

The facility will accept and dispose of certain types/streams of special wastes following procedures included in the Special Waste Acceptance Plan which contains a list of the special wastes that may be accepted for disposal at this facility.

6.12 Leachate and Gas Condensate Recirculation, §330.177

Leachate recirculation will occur over areas underlain by a Subtitle D liner system. Leachate will be recirculated into the wastes from a water truck or comparable equipment using a spray bar or hose to distribute leachate back to the working face. The leachate recirculation will be conducted following procedures specified in the Site Operating Plan.

6.13 Operational Standards for Class 1 Industrial Solid Waste Management, §330.179

The design and operational requirements for Class 1 nonhazardous industrial solid waste disposal activities will comply with the conditions in the application, including, but not limited to Part III, Appendix IIIA-C, Section 4.3.6 and Part IV, Section 4.20.7. Part III, Appendix IIIA, Section 6, and Appendix IIIA-C contains specific information on compliance with the requirements of above-grade disposal of Class 1 nonhazardous industrial solid waste.

7. Application Review and TCEQ Contact Information

The application is currently being reviewed by the TCEQ MSW Permits Section to determine its compliance with the applicable technical requirements in 30 TAC Chapters 305 and 330. Chapter 305 contains general requirements for all permit applications; Chapter 330 contains the minimum regulatory criteria for MSW facilities. If it is determined that the information in this permit application demonstrates compliance with these regulatory requirements and a draft permit can be prepared, the application will be declared technically complete. If the application is declared technically complete, a *Notice of Application and Preliminary Decision* (NAPD) will be issued, along with a Technical Summary of the application.

Information about how to follow the progress of a permit application review, and options for public participation are available on the TCEQ website at www.tceq.texas.gov/goto/msw-type1-landfill.

For information concerning the regulations covering this application, contact:

Eric Clegg, P.G.
MSW Permits Section, MC 124
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711
(512) 239-1270

For more detailed technical information concerning any aspect of this application or to request a copy of the Site Development Plan or Site Operating Plan, please contact the Consulting Engineer or the Applicant at the address provided at the beginning of this summary.

8. Attachments

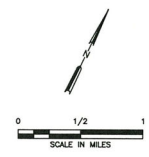
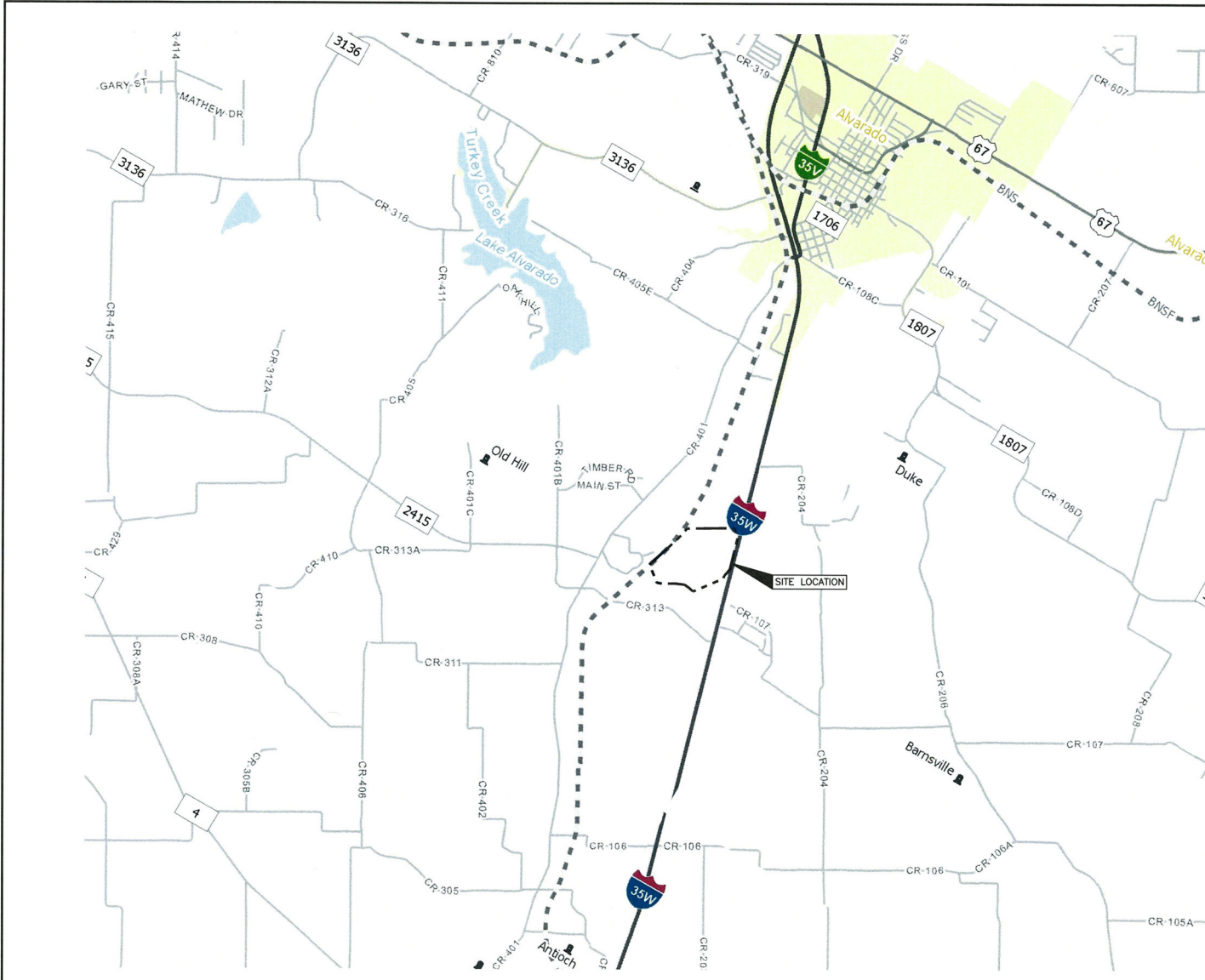
Attachment 1. Site Location Map (from Parts I/II of the Application)

Attachment 2. Site Plan (from Parts I/II of the Application)

Attachment 3. Land Use Map (from Parts I/II of the Application).

Attachments

C:\0771\068\EXPANSION 2021\PARTS 1-11\FIG 4.1-SITE LOCATION MAP.DWG, WASHINGTON, TX



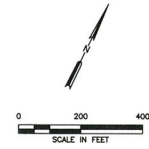
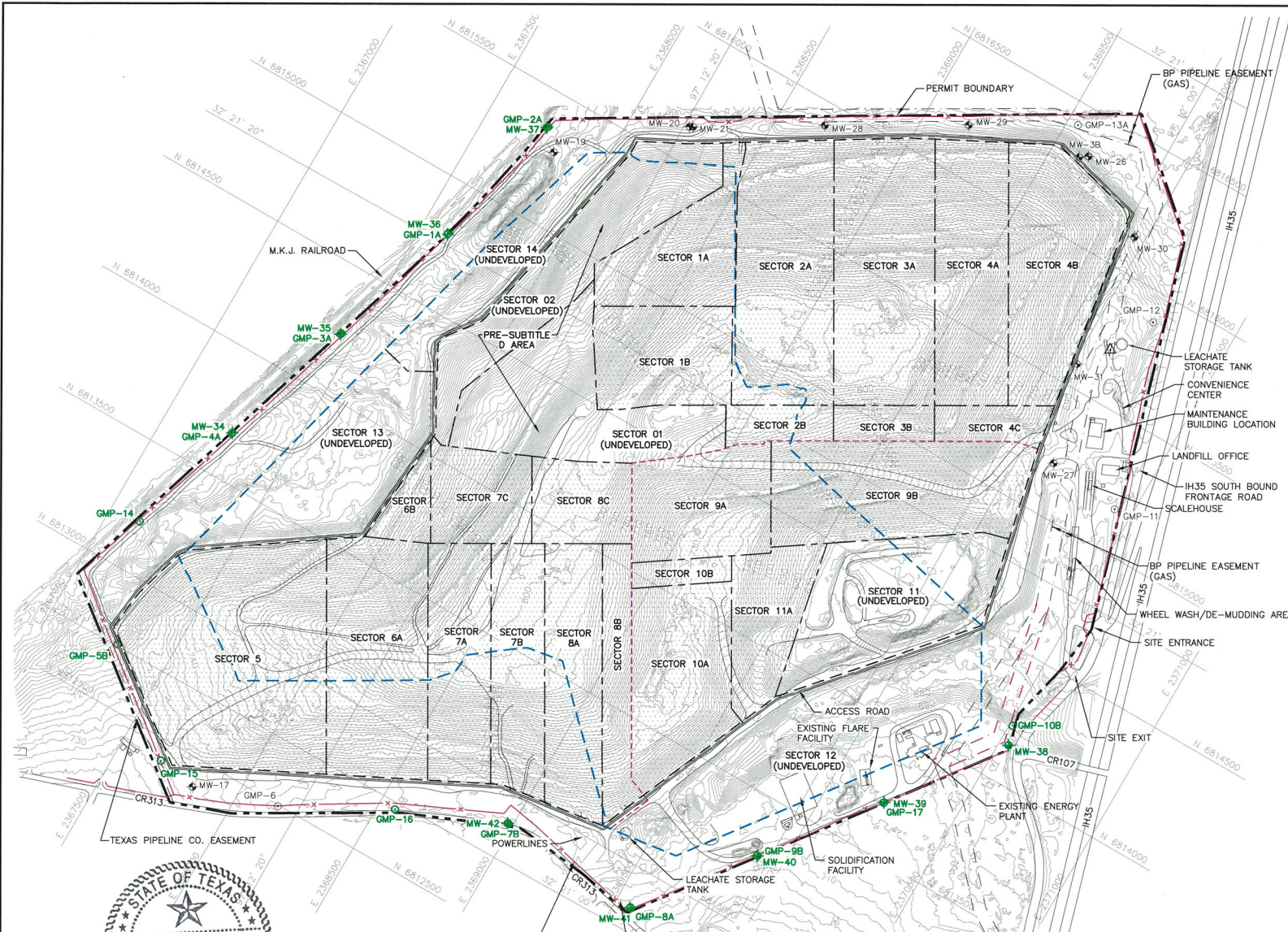
- LEGEND**
- PERMIT BOUNDARY
 - Unincorporated Community
 - ⊙ County Seat
 - ✚ Border Crossing
 - ⚰ Cemetery
 - ⚰ Cemetery (Inside City)
 - ⚓ Deep Draft Port
 - ⚓ Shallow Draft Port
 - Railroad
 - Dam
 - River or Stream
 - TXDOT District
 - 🟦 Lakes
 - 🟩 Education
 - 🟨 Military
 - 🟩 Airport Runway
 - 🟨 Airport
 - 🟨 Prison
 - 🟨 Parks and Other Public Land



NOTE:
 1. REPRODUCED FROM 2018 TEXAS DEPARTMENT OF TRANSPORTATION COUNTY MAPS, JOHNSON COUNTY.

| | | |
|--|--|--|
| <input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION | PREPARED FOR TEXAS REGIONAL LANDFILL COMPANY, LP | MAJOR PERMIT AMENDMENT SITE LOCATION MAP TURKEY CREEK LANDFILL JOHNSON COUNTY, TEXAS |
| | DATE: 02/2022 FILE: 0771-068-11 CAD: 4.1-SITE LOCATION MAP.DWG | |
| Weaver Consultants Group TBPE REGISTRATION NO. F-3727 | | WWW.WCGRP.COM |

0:\0771\00\EXPANSION 2021\PARTS 1-11\FIG A.1-EXISTING SITE PLAN.dwg, nevtur, 1:2



- LEGEND**
- PERMIT BOUNDARY
 - - - PERMITTED LIMITS OF WASTE
 - · - · - · LIMIT OF CLASS 1 WASTE DISPOSAL AREA
 - · - · - · NEWLY PERMITTED AIRSPACE LIMIT OF WASTE
 - 750 --- EXISTING CONTOUR
 - N 6816500 STATE PLANE COORDINATE
 - 32' 21" 20" GEODETIC COORDINATE
 - · - · - · EASEMENT
 - · - · - · RELOCATED EASEMENT (SEE NOTE 6)
 - - - SECTOR BOUNDARY
 - x - x - EXISTING FENCE (SEE NOTES 7 AND 8)
 - [Hatched Box] EXISTING SUBTITLE D COMPOSITE LINED AREA
 - ⊕ MW-7 EXISTING GROUNDWATER MONITORING WELL
 - GMP-12 EXISTING LFG GAS MONITORING PROBE
 - △ SITE BENCHMARK (SEE NOTE 2)

- NOTES:**
1. EXISTING CONTOURS AND ELEVATIONS PROVIDED BY FIRMATEK FROM AERIAL PHOTOGRAPHY FLOWN ON 01-08-2021. THE GRID SYSTEM IS TIED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NORTH CENTRAL ZONE NAD 1983.
 2. SITE BENCHMARK INFORMATION:

| NORTHING | EASTING | ELEVATION (FT-MSL) |
|--------------|--------------|--------------------|
| N 6815705.71 | E 2370100.37 | 684.64 |
 3. SEQUENCE OF DEVELOPMENT IS PROVIDED ON DRAWINGS I/II-A.4 THROUGH I/II-A.7.
 4. UNAUTHORIZED ACCESS TO THE EXISTING FILL AREA WILL BE MINIMIZED BY CONTROLLING ACCESS WITH PERIMETER FENCING (MINIMUM 4-FOOT HIGH, 3-STRAND BARB WIRE FENCES), GATED ENTRANCE, AND NATURAL BARRIERS (e.g., TURKEY CREEK AND DENSE FOLIAGE AND VEGETATION).
 5. THE NEWLY PERMITTED AIRSPACE LIMIT OF WASTE REFLECTS THE VERTICAL EXPANSION AREA FOR MSW PERMIT NO.-1417C.
 6. THE PROPOSED EASEMENT SHOWN IS FOR ILLUSTRATION PURPOSES ONLY. THE ACTUAL LOCATION WILL BE DETERMINED AT A LATER DATE IN COORDINATION WITH THE EASEMENT HOLDER.
 7. EXISTING FENCE IS SHOWN WHERE IT DOES NOT OVERLAP WITH PERMIT BOUNDARY. EXISTING FENCELINE LOCATED WITHIN FENCELINE RELOCATED AREAS WAS APPROXIMATED.
 8. EXISTING FENCELINE RELOCATED AREAS WAS APPROXIMATED.

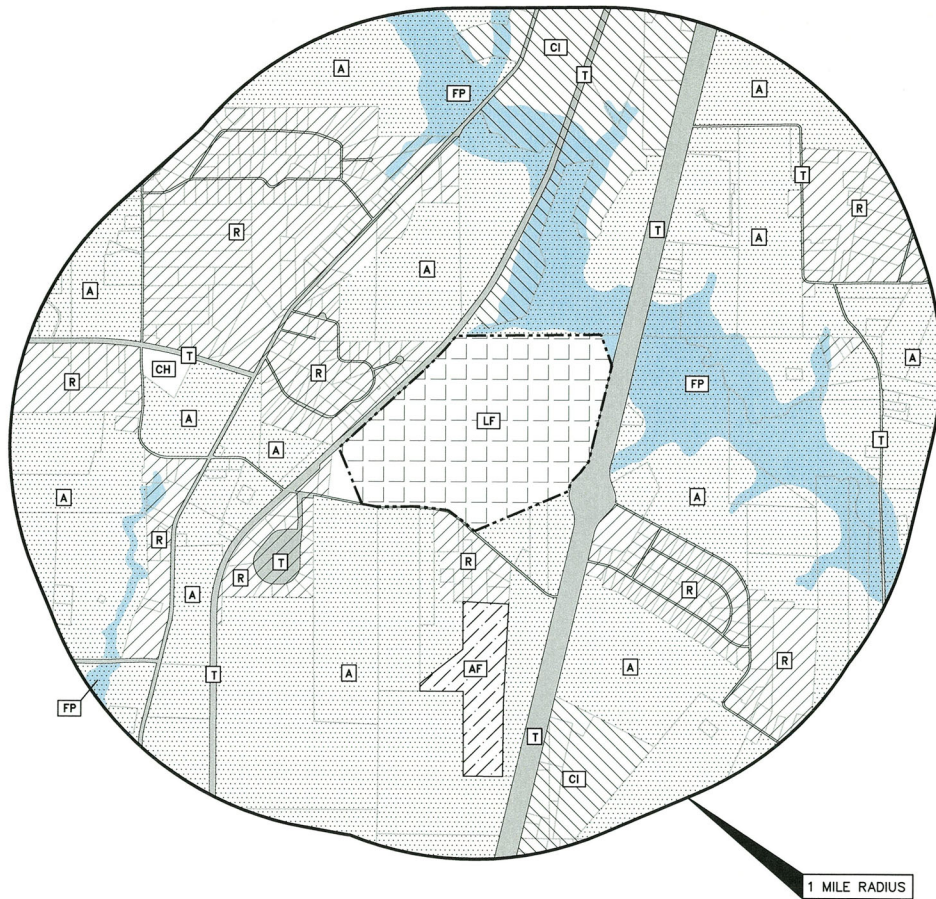


JOHNSON COUNTY RURAL WATER SUPPLY CORP. EASEMENT

JOHNSON COUNTY RURAL WATER SUPPLY CORP. EASEMENT

| <input type="checkbox"/> DRAFT <input type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION | PREPARED FOR TEXAS REGIONAL LANDFILL COMPANY, LP | MAJOR PERMIT AMENDMENT GENERAL SITE PLAN TURKEY CREEK LANDFILL JOHNSON COUNTY, TEXAS | | | | | | |
|---|--|---|-----|------|-------------|--|--|--|
| DATE: 02/2022 FILE: 0771-368-11 CDD: A.1-GENERAL SITE PLAN/DWG | DRAWN BY: JOW DESIGN BY: CAM REVIEWED BY: NT | REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | NO. | DATE | DESCRIPTION | | | |
| NO. | DATE | DESCRIPTION | | | | | | |
| | | | | | | | | |
| Weaver Consultants Group TBPE REGISTRATION NO. F-3727 | | WWW.WCGRP.COM FIGURE I/II-A.1 | | | | | | |

C:\0771\068\EXPANSION 2021\PARTS 1-II\FIG 7.2-LAND USE MAP.DWG, FARRINGTON, 1.2



LEGEND

- LANDFILL PERMIT BOUNDARY
- AGRICULTURE/OPEN SPACE (INCLUDING SCATTERED RESIDENCES)
- AIR FIELD
- CHURCH
- COMMERCIAL, LIGHT INDUSTRIAL
- FLOODPLAIN
- RESIDENTIAL, RURAL RESIDENTIAL
- TRANSPORTATION CORRIDOR
- TURKEY CREEK LANDFILL

| LAND USE WITHIN 1 MILE OF PERMIT BOUNDARY | | |
|---|---------------|---------------|
| | ACRES | PERCENT |
| AGRICULTURE/OPEN SPACE (INCLUDING SCATTERED RESIDENCES) | 2020.4 | 54.6% |
| AIR FIELD | 49.5 | 1.3% |
| CHURCH | 9.0 | 0.2% |
| COMMERCIAL/LIGHT INDUSTRIAL | 274.1 | 7.4% |
| FLOODPLAIN* | 389.8 | - |
| RESIDENTIAL, RURAL RESIDENTIAL | 537.9 | 14.5% |
| TRANSPORTATION CORRIDOR | 590.3 | 16.1% |
| TURKEY CREEK LANDFILL | 219.6 | 5.9% |
| TOTAL | 3700.9 | 100.0% |

* THE AREA OF FLOODPLAIN (389.8 ACRES) IS NOT USED TO CALCULATE THE PERCENT AREA OR TOTAL ACREAGE IN THE ABOVE TABLE.

- NOTES:**
- REFER TO FIGURE I/II-7.1 FOR LOCATION OF RESIDENCES.
 - MINERAL EXPLORATION PADS (OIL AND GAS) ARE VISIBLE ON FIGURE I/II-7.1, BUT HAVE NOT BEEN REPRESENTED ON THIS MAP.
 - LAND USE IS SHOWN WITHIN THE ONE-MILE BOUNDARY.
 - THERE ARE NO KNOWN LICENSED DAYCARES, HOSPITALS, RECREATION AREAS, LAKES, ARCHAEOLOGICAL SITES, OR SITES WITH EXCEPTIONAL AESTHETIC QUALITIES LOCATED WITHIN THE ONE MILE RADIUS.
 - THERE ARE SEVERAL STOCK PONDS LOCATED WITHIN ONE MILE OF THE SITE THAT ARE USED FOR AGRICULTURAL PURPOSES.
 - EXCEPT AS OTHERWISE SHOWN, LAND USE IS PREDOMINANTLY AGRICULTURAL/OPEN SPACE/WOODED, AND RURAL RESIDENTIAL WITH SOME INDUSTRIAL/COMMERCIAL FACILITIES WITHIN ONE MILE.
 - FLOODPLAIN LIMITS REPRODUCED FROM FEMA FIRM PANEL NUMBER 48251C0350J FOR JOHNSON COUNTY, TEXAS AND INCORPORATED AREAS, EFFECTIVE DATE DECEMBER 4, 2012.

1 MILE RADIUS

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|---|---|--|---|--------------------------------------|
| <input type="checkbox"/> DRAFT <input type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION | PREPARED FOR TEXAS REGIONAL LANDFILL COMPANY, LP | | MAJOR PERMIT AMENDMENT LAND USE MAP | |
| | DATE: 02/2022 FILE: 0771-108-11 QAD: 7.2-LAND USE MAP.DWG | DRAWN BY: JOW DESIGN BY: JBP REVIEWED BY: NT | REVISIONS NO. DATE DESCRIPTION | |
| Weaver Consultants Group TBPE REGISTRATION NO. F-3727 | | | | WWW.WCGRP.COM FIGURE I/II-7.2 |