

Sustainability in Action

August 23, 2022

Mr. Chance Goodin, Manager Municipal Solid Waste Permits Section, MC-124 Texas Commission on Environmental Quality 12100 Park 35 Circle Building A, Room 122 Austin, TX 78753-1808

Re:

Permit Modification – VERDac Alternative Daily Cover

Royal Oaks Landfill - Permit No. MSW-1614A

Cherokee County, Texas

Dear Mr. Goodin:

The purpose of this permit modification is to request the use of VERDac Landfill Cover Pellets as alternative daily cover (ADC) at the referenced facility on a permanent basis. As noted in the status reports submitted to the TCEQ during the trial period, VERDac Landfill Cover Pellets has been used effectively at the site to control vectors, odors, and windblown waste. As requested in the Temporary Authorization Condition 7 of the July 29, 2021 approval letter, the ADC evaluation period covered all four seasons of the year.

To facilitate TCEQ's review, both a redline/strikeout copy (see Attachment 1) and a clean copy (see Attachment 2) have been included in the attached permit modification.

Please process this modification per Title 30 Texas Administrative Code (TAC) §305.70(k)(1) which allows for the use of an alternative daily cover material on a permanent basis.

Additionally, the TCEQ-20650 form which includes the applicants signature page (Page 5) is included in Attachment 4 of the permit modification. In accordance with Title 30 TAC §330.59(h)(1), a \$150 application fee has been submitted to the TCEQ, as documented on Page 1 of the TCEQ-20650 form.

One original and one copy are provided for your use and distribution. Consistent with Title 30 TAC §305.70(f), a copy of this submittal was sent to the TCEQ regional office. A copy of this submittal was placed in the site operating record for this facility.

During the course of your review, if you need additional information or have any questions, please call.

Sincerely,

Austin Sparks, P.E.

Environmental Manager

Attachments: Attachment 1 – SOP Replacement Pages (Redline/Strikeout Copy)

Attachment 2 – SOP Replacement Pages (Clean Copy)

Attachment 3 – VERDAC Temporary Authorization Approval Letters

Attachment 4 – TCEQ – 20650 Form

Attachment 5 – Adjacent Landowners List and Map

cc: TCEQ Region 5

Duane Weatherford, Pine Hill Farms Landfill TX, LP Ryne J. Spicer, P.E., Weaver Consultants Group, LLC

ATTACHMENT 1 SOP REPLACEMENT PAGES (REDLINE/STRIKEOUT COPY)

PERMIT MODIFICATION

SITE OPERATING PLAN

Prepared for

Pine Hill Farms Landfill TX, LP

November 2006 Revised June 2007 Revised June 2008 Revised October 2015 Revised May 2016 Revised September 2017

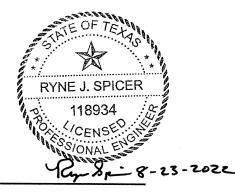
Revised August 2022



Prepared by

Weaver Consultants Group, LLC

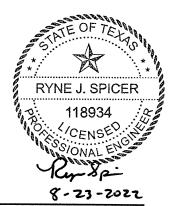
TBPE Registration No. F-3727 6420 Southwest Boulevard, Suite 206 Fort Worth, Texas 76109 817-735-9770



CONTENTS

LIST OF TABLES AND FIGURES LIST OF ACRONYMS			v
			v
1	INTR	ODUCTION	1
2	PERS 2.1	Personnel 2.1.1 Royal Oaks Landfill Management Team 2.1.2 Landfill Manager/Site Manager 2.1.3 Scale Operators 2.1.4 Equipment Operators 2.1.5 Spotters and Laborers 2.1.6 Mechanics 2.1.7 Other Site Personnel	2 2 2 2 3 4 5 5
	2.2	2.1.8 Other Corporate Resources Training	5
3	EQUI	PMENT	9
4	OPER 4.1	ACCESS Control 4.1.1 Site Security 4.1.2 Traffic Control Unloading Wastes	12 12 12 13
		 4.2.1 Unloading Areas 4.2.2 Waste Excluded from Disposal at the Site 4.2.3 Waste Unloading Procedures 4.2.4 Maximum Size of the Unloading Area 4.2.5 Prohibited Waste 	13 13 13 14 14 16
	4.3 4.4 4.5 4.6	Hours of Operation Site Signs Control of Windblown Wastes and Litter Easements and Buffer Zones	16 17 17 18
	4.7 4.8 4.9	4.6.1 Easements4.6.2 Buffer ZonesLandfill Markers and BenchmarkControl of Waste Spilled on Route to the SiteDisposal of Large Items	18 19 19 20 21

Weaver Consultants Group, LLC Rev. 5, 8/19/2022



CONTENTS (Continued)

	4.10	Air Quality and Odor Management Plan	21
	4.11	Disease Vector Control	23
	4.12	Maintenance of Site Access	23
	4.13	Salvaging and Scavenging	24
	4.14	Endangered Species	24
	4.15	Control of Landfill Gas	24
	4.16	Treatment of Oil, Gas, and Water Wells	25
	4.17	Compaction of Solid Waste	26
	4.18	Soil Management, Placement, and Compaction of Daily,	
		Intermediate, and Final Cover	26
		4.18.1 Soil Management	26
		4.18.2 Daily Cover	27
		4.18.3 Intermediate Cover	28
		4.18.4 Final Cover	28
		4.18.5 Cover Application Log	30
	4.19	Prevention of Ponded Water	30
	4.20	Disposal of Special Wastes	31
		4.20.1 Sludges	33
		4.20.2 Dead Animals	33
		4.20.3 Empty Containers	33
		4.20.4 Nonregulated Asbestos-Containing Materials	33
		4.20.5 Industrial Waste	34
	4.21	Prevention of Discharge of Contaminated Water	34
	4.22	Leachate and Contaminated Water Plan	34
	4.23	Site Inspection and Maintenance List	35
	4.24	Visual Screening of Daily Operations	36
5	SEQU	ENCE OF DEVELOPMENT	37
6	DETE	CCTION AND PREVENTION OF DISPOSAL OF PROHIBITED	
	WAS	ΓES	38
	6.1	General	38
	6.2	Load Inspection Procedure	38
	6.3	Recordkeeping	41
	6.4	Training	41
	6.5	Managing Prohibited Wastes	42
	6.6	Managing Mishandled or Undeclared Special Waste	42



CONTENTS (Continued)

7	FIRE	E PROTECTION PLAN	43
	7.1	Fire Protection Training	43
	7.2		44
		7.2.1 Posted Information	44
		7.2.2 Fire Safety Rules	44
		7.2.3 Burning Waste Loads (Hot Loads)	44
	7.3	Accidental Fires	45
	7.4	Preventive Procedures	45
	7.5	Vehicle or Equipment Fire	46
	7.6	Structure Fire	46
	7.7	Working Face(s) Fire Protection Plan	46
		7.7.1 Working Face Fire Protection Requirements (§330.115)	46
		7.7.2 Working Face Fire Fighting Plan	46
		7.7.3 Water Trucks or Storage Tank Requirements	47
		7.7.4 Soil Stockpile Requirements	48
	7.8	Citizens Convenience Center Fire	50
	7.9	Contacting Fire Department and TCEQ	50
8	SAFETY		
	8.1	General Site Safety	51
	8.2	Preparedness and Prevention Measures	52
		8.2.1 General	52
		8.2.2 Scale House	52
		8.2.3 Landfill Access Road	53
9	RECO	ORDKEFPING REQUIREMENTS	T 4

APPPENDIX A

Example Load Inspection Report

APPENDIX B

Protection of Endangered Species Documentation

APPENDIX C

Waste Acceptance Plan

APPENDIX D

Alternate Daily Cover Operating Plan Information

PERMIT MODIFICATION

SITE OPERATING PLAN APPENDIX D ALTERNATE DAILY COVER OPERATING PLAN INFORMATION

Prepared for

Pine Hill Farms Landfill TX, LP

July 2006 Revised October 2015 Revised November 2017

Revised August 2022

RYNE J. SPICER

118934

CENSE

NO. /CENSE

8-23-2022

Prepared by

Weaver Consultants Group, LLC
TBPE Registration No. F-3727
6420 Southwest Blvd., Suite 206
Fort Worth, Texas 76109
817-735-9770

CONTENTS

ADC SUMMARY D-1

APPENDIX D-1

Alternative Daily Cover Operating Plan Information

APPENDIX D-2

Alternative Daily Cover Approval Letters



ADC SUMMARY

The site is currently approved to use Bio-cover, Enviro-cover, Enviro-Plus, Enviro-Gro, and Quick Cover spray-on type ADC materials, and contaminated soils ADC, and VERDac Landfill Cover Pellets. Bio-cover, Enviro-cover, Enviro-Plus, and Enviro-Gro spray-type ADC materials were approved on February 20, 2002. Contaminated soil ADC was approved on March 24, 2016. The approval letter for Bio-Cover, Enviro-Cover, Enviro-Gro, contaminated soils, and VERDac are included in Appendix D-2. The ADCOP for Quick Cover, and contaminated soils, and VERDac Landfill Cover Pellets are provided on the following pages.

Consistent with §330.165(d), a temporary authorization will be submitted for any additional future ADC materials. Consistent with 30 TAC 330.165(d) (2), after a Temporary Authorization to use a new ADC material is approved, a status report for the new ADC material will be submitted on a two-month basis to the TCEQ describing the effectiveness of the alternative materials, any problems that may have occurred, and corrective actions required as a result of such problems. The trial period will be for two-180 day periods with an extension request to be submitted near the end of the first 180 day period. If no unresolved problems occur within the trial period, a permit modification per §305.70(k)(1) will be submitted to the TCEQ to obtain permanent approval of the ADC material.

PERMIT MODIFICATION

APPENDIX D-1 ALTERNATIVE DAILY COVER OPERATING PLAN

Prepared for

Pine Hill Farms Landfill TX, LP

October 2015 Revised November 2017

Revised August 2022



Prepared by

Weaver Consultants Group, LLC TBPE Registration No. F-3727 6420 Southwest Blvd., Suite 206 Fort Worth, Texas 76109 817-735-9770

CONTENTS

SITI	E OPER	ATING PLAN	1
1	INTI	INTRODUCTION	
2	MAT 2.1 2.2	TERIAL CHARACTERISTICS Description of ADC Materials Chemical Characteristics	2 2 2
3	OPE 3.1 3.2 3.3	RATIONAL METHODS Contaminated Soil Quick Cover VERDac Landfill Cover Pellets	3 3 3 4
4	ADC 4.1 4.2	MATERIAL PERFORMANCE AND INSPECTION PROCEDURES ADC Performance Verification and Inspection Procedures	5 5

APPENDIX D-1-A

Quick Cover Information

APPENDIX D-1-B

VERDac Landfill Cover Pellets Information



2 MATERIAL CHARACTERISTICS

2.1 Description of ADC Materials

Contaminated soil materials that are not classified as Class 1 non-hazardous industrial solid waste and are authorized to be accepted at the Royal Oaks Landfill, may be applied as ADC.

The contaminated soil will be applied with a minimum thickness of 6 inches. Clean soil will be added to the contaminated soil if necessary to achieve the minimum thickness. Additionally, other approved ADC material may be used in conjunction with contaminated soil.

Quick Cover is produced by Tascon, Inc. Quick Cover is a blend of cellulose fiber mulch and a binding agent that forms a slurry when mixed with water. The mulch is manufactured from recycled fiber stock (mixed papers) and the binding agent is composed of guar gum powder and applied with a hydromulch machine. This ADC spray material will form a crust-like barrier after application. Additional information for Quick Cover is included in Appendix D-1-A.

VERDac Landfill Cover Pellets (VERDac) is a spray-applied mulch and mineral mortar slurry product manufactured by LSC Environmental Products, LLC. VERDac Landfill Cover Pellets ADC is a non-flammable blend of mulch and mineral binder providing a thin, non-toxic coating which has been demonstrated as effective for controlling odors, windblown waste, and vectors at numerous facilities.

2.2 Chemical Characteristics

Soil materials contaminated with petroleum, pesticides, and metals that are accepted at the site as special waste (in accordance with the site's permitted waste acceptance plan) and soil contaminated with Class 2 industrial waste may be used as ADC. Consistent with 30 TAC §330.165(d)(4) (A), contaminated soil used as ADC will not contain polychlorinated biphenyl wastes that are subject to the disposal requirements of 40 Code of Federal Regulations Part 761. Consistent with 30 TAC §330.165(d) (4)(3), the TPH of the petroleum contaminated soil must be equal to or below 1500 milligrams per kilogram. Soils contaminated with pesticides will be tested for TCLP pesticides and herbicides and TCLP metals (RCRA 8 metals). Soils contaminated with metals will be tested for TCLP metals (RCRA 8 metals). Other contaminated soils will be tested for process knowledge driven constituents of concern. Contaminated soils used as ADC will not contain constituents of concern exceeding the concentration totals in Table 1 of 30 TAC §335.521(a)(1) (i.e., soil classified as non-Class 1 waste), consistent with 30 TAC §330.165(d)(4). The contaminated soils chemical characteristics will be attached to the generator waste profile sheet that

accompanies the waste at the time of acceptance and will be maintained in the Site Operating Record.

The MSDS for Quick Cover is included in Appendix D-1-A. Quick Cover is not reactive, ignitable, or corrosive under the expected conditions (i.e., high temperature, intense sunlight).

VERDac is comprised of cellulose fiber, powdered clay, adhesives, and water conditioners. The chemical analysis of VERDac, as well as other pertinent characteristics, are included in Appendix D-1-B.

3.1 Contaminated Soil

Contaminated soils will be stockpiled near the working face or fill area and spread over the working face with a dozer or similar equipment to achieve a minimum thickness of 6 inches of well-compacted material. Additionally, clean soil will be added as necessary to ensure the appropriate thickness is applied.

Stormwater runon to and runoff from the contaminated soil piles will be controlled by containment berms and/or diversion berms in accordance with Section 4.22 of the SOP, which references Attachment 15 (Leachate and Contaminated Water Plan), Section 2.3. The contaminated soil stockpiles will be located within the containment berms constructed around the working face. Stormwater that comes into contact with the contaminated soil in a stockpile will be considered contaminated water and managed consistent with the requirements for contaminated water in the facility's Leachate and Contaminated Water Plan (Attachment 15). The maximum size of the contaminated soil stockpile area will be 0.5 acres (maximum volume = 10,000 cy). The size of the contaminated soil stockpile area will be added to the working face area to determine the "Working Face and Daily Cover Area" (shown in Section 2.3 of Attachment 15) to calculate the "Approximate Containment Area" and dimensions.

Contaminated water will be contained at the working face as discussed in Attachment 15 of the permit. Contaminated water will be collected at the working face and removed using a vacuum truck no later than 7 days from the end of the rainfall event (also refer to Part IV, SOP, Section 4.19 for additional information regarding ponded water). The collected contaminated water will be transported via tanker trucks directly to a properly permitted privately owned off-site wastewater treatment facility or publicly owned treatment works (POTW) as discussed below.

3.2 Quick Cover

Quick Cover will be applied to the working face using a FINN T90 (900-gallon capacity) or similar equipment following the procedure listed below.

1. The operator will become familiar with this ADCOP and Quick Cover. Specifically, the mixing ratio and application rate for the spray-type ADC material. This ADCOP includes information on Quick Cover in Appendix D-1-A as well as the MSDS for this product; however, manufacturer's instructions included with the ADC material itself should be followed as well.

- 2. The operator will not operate the hydroseed machine until they have been trained by qualified personnel. Site personnel that are responsible for the application of ADC materials will receive training in the operation of the equipment, mixing procedures, and application methods.
- 3. The operator will mix the spray ADC according to the manufacturer's recommendation (1-50 pound bag per 100 gallons of water). Then, using the hydromulch machine, the operator will apply the ADC from at least two different directions to achieve a minimum thickness of 0.25 inches over the exposed waste at the working face. The operator will visually inspect the ADC to ensure that the minimum thickness is achieved and that no waste is left exposed.
- 4. The operator will not use the spray ADC around or near ignition sources.
- 5. The operator will be responsible for storing the spray ADC material in a dry location that is not susceptible to ponding water. The spray ADC material will be stored under a tarp, or equivalent, at all times to protect the material from moisture damage and direct sunlight. The operator will be responsible for inspecting the spray ADC material for moisture damage or other defects before each use. Any damaged or defective materials will not be allowed for use as ADC.
- 6. No more than 1,000 bags of spray ADC material will be stored at the site at any time. Additional spray ADC material will be ordered periodically to replenish the material used.

3.3 VERDac Landfill Cover Pellets

VERDac ADC is a spray-applied mulch and mineral mortar slurry comprised of water and a combination of cellulose fiber, powdered clay, adhesives, and water conditioners. This ADC will be applied to the working face using a FINN T90 (900-gallon capacity) or similar equipment following the procedures listed below:

- The operator will become familiar with this ADCOP and VERDac. Specifically the
 mixing ratio and application rate for the spray-type ADC material. This ADCOP
 includes information on VERDac in Appendix D-1-B as well as the SDS; however, the
 manufacturer's instructions included with the ADC material itself should be followed
 as well.
- 2. The operator will mix the spray ADC according to the manufacturer's recommendations (50-pound bag to 80 gallons). Then using the hydromulch machine, the operator will apply the ADC from at least two different directions to achieve a minimum thickness of 0.25 inches over the exposed waste at the working face. The operator will visually inspect the ADC to ensure that the minimum thickness is achieved and that no waste is exposed.
- 3. The operator will not use the spray ADC around or near ignition sources.

- 4. The operator will be responsible for storing the spray ADC material in a location that is not susceptible to ponding water. The spray ADC material will be stored in the manufacturer's protective plastic wrapping, under a tarp, or equivalent, at all times to protect the material from moisture damage and direct sunlight. The operator will be responsible for inspecting the spray ADC material for moisture damage or other defects before each use. Any damaged or defective materials will not be allowed for use as ADC.
- 5. No more than 1,000 bags/bails of spray ADC material will be stored at the site at any time.
- 6. Stormwater that comes into contact with the VERDac ADC during use or storage will be treated as contaminated water and controlled in accordance with Section 4.21 of the Site Operating Plan (i.e., contained within the containment berms around the active area).

4 ADC MATERIAL PERFORMANCE AND INSPECTION PROCEDURES

4.1 ADC Performance

Contaminated soil ADC has been successfully used at other MSW landfill sites in Texas to control vectors, fires, odors, and windblown litter and waste. Contaminated soil forms a barrier over waste and this surface serves as a barrier much like clean soil. Contaminated soil will control vectors and windblown litter by creating a physical barrier between the atmosphere and the waste. Contaminated soil also minimizes airflow between the active face and the atmosphere, which minimizes fire hazards and odor potential.

The Quick Cover spray-type ADC material included in this plan has been successfully used at other MSW landfill sites in Texas to control vectors, fires, odors, and windblown litter and waste. This type of ADC forms a crust-like barrier over the waste and this crust-like surface serves as a barrier much like the tarp ADC material. The spray-type ADC will control vectors and windblown waste by creating a physical barrier between the atmosphere and waste (e.g., the cohesive nature of the ADC material will prevent windblown waste and the crust-like barrier of Quick Cover has been proven to prevent vectors). The cohesive nature of the spray-type ADC also minimizes the airflow between the active face and the atmosphere, which minimizes the fire hazard and odor potential.

The VERDac ADC specified in this plan creates a thin, non-toxic barrier over the waste. VERDac ADC will control vectors, odor, and windblown waste, as well as minimize fire hazards by creating a physical barrier between the atmosphere and waste due to the cohesive nature of the ADC material.

4.2 Verification and Inspection Procedures

At the end of each working day, landfill personnel will inspect the working face to confirm that the minimum thickness of an approved ADC has been placed over the working face in accordance with this ADCOP. Landfill personnel will routinely assess the effectiveness of each ADC in controlling vectors, fires, odors, and windblown litter and waste. Daily application of ADC will be documented and maintained in the Site Operating Record.

In the event ADC does not control vectors, fires, odors, or windblown waste, the ADC application process will be re-evaluated to ensure this ADC material adequately covers the working face and serves its intended purpose. Any required changes to the ADC operational procedures will be authorized through a permit modification.

APPENDIX D-1-B VERDac LANDFILL COVER PELLETS INFORMATION



SDS

LSC Environmental Products, LLC Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 1 of 4

Identification

Supplier

LSC Environmental Products, LLC

2183 Pennsylvania Ave

Apalachin, NY 13732

Telephone:

607-625-3050 607-625-2688

Fax: Web:

www.lscenv.com

Product Name

VERDac Landfill Cover Pellets

Description:

Green Dyed Cellulose Fiber from Shredded Wastepaper and Corn Fiber

and Sodium Montmorillonite Clay with Additives

CAS Number:

Recommended Use:

Alternative Daily Cover and Hydroseeding.

2 Hazards Identification

Route of Entry:

Hazards:

Eye Contact, Skin Contact, Inhalation

Eye: Skin: May cause mechanical irritation. May cause mild skin irritation.

Ingestion:

No known health effects.

Inhalation:

Short term exposure may cause mechanical irritation resulting in dry cough. May aggravate existing

respiratory illness.

Chronic:

Acute:

Repeated inhalation of respirable* crystalline

silica above exposure limits can cause lung disease, including

silicosis and lung cancer.

Composition / Information on Ingredients

Components in order of Volume:

Cellulose Fiber, Corn Fiber, Sodium Montmorillonite Clay* (Cas # 1318-93-0), Proprietary ingredients and biodegradable green coloring.

*Typical western SMC contains 1-6% crystalline silica as quartz CAS# 14808-60-7.

First-Aid Measures

Eye:

Flush eyes and under eye lids with plenty of water until irritation ceases. Contact

physician if irritation persists.

Skin:

Wash with soap and water until clean. Contact physician if irritation develops.

Ingestion:

Inhalation:

Move to area free from dust. If symptoms of irritation persist, contact physician.



SDS

LSC Environmental Products, LLC Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 2 of 4

Inhalation may aggravate existing respiratory illness.

5 Fire Fighting Measures

Flammability:

Combustible product

Auto-ignition Temp:

400-500 F

Fire Extinguishing Media:

Water, Carbon Dioxide, Sand.

6 Accidental Release Measures

Personal Precaution:

Avoid breathing dust; wear respirator approved for silica bearing dust. Vacuum to avoid generating airborne dust. Avoid using water. Material

becomes slippery when wet.

7 Handling and Storage

Handling:

Cleanup:

Use NIOSH/MSHA respirators approved for silica bearing dust when airborne

SMC dust levels exceed PEL/TLVs. Clean up spills promptly to avoid making

dust. Storage area floors may become slippery if wetted.

Storage:

Store in a dry place. Keep away from ignition sources.

8 Exposure Controls / Personal Protection

Exposure Guidelines (Inhalation):

Component

OSHA PEL (8 hr TWA)

ACGIH TVL

Crystalline Silica as Quartz

0.1 mg/m³ 1 mg/m³ 0.1 mg/m³ 1 mg/m³

Wood Dust

Particles Not Otherwise Regulated

Total Dust Respirable Dust 15 mg/m³ 5 mg/m³

N/A N/A

Engineering Controls:

None required for outdoor mixing and application. Use

local ventilation to maintain PELs/TLVs if handling

indoors.

Personal Protective Equipment:

Eye and Face Protection:

Wear safety glasses or goggles during loading and

Skin Protection:

application to protect from dust, splashing, and spray mist.

Wear gloves and overalls to protect skin and clothing

from contact with product. Personal hygiene measures, such as washing hands and face after working with

materials, are recommended.



SDS

LSC Environmental Products, LLC Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 3 of 4

Respiratory Protection:

When handling generates dust levels above exposure limits, use respirators approved by NIOSH/MSHA for silica bearing dust.

9 Physical and Chemical Properties

Appearance:

Green Pellets

Odor:

N/A

Physical State:

Granular Mixture of Cellulose Fiber, Corn Fiber, Sodium

Montmorillonite Clay, Proprietary Ingredients, Dye

pH:

5.5-7.0

Specific Density:

20-35#'s/ft³ (approximate)

Specific Gravity: Solubility in Water:

N/A <2%

Vapor Pressure (mm Hg):

N/A

10 Stability and Reactivity

Stability:

Stable

Conditions to Avoid:

Avoid open flame. Store in dry areas.

Materials to Avoid: Hazardous Polymerization:

No.

11 Toxicological Information

Carcinogenicity:

- Sodium Montmorillonite Clay 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).

12 Ecological Information

No information available.

13 Disposal Considerations

Bury in licensed landfill according to local, state, and federal regulations.



SDS

LSC Environmental Products, LLC Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 4 of 4

14 Transportation Information

US DOT:

Non-regulated

15 Regulatory Information

None of the components in this product are known to be regulated by national or international regulatory bodies.

16 Other Information

SDS Status:

Revised from MSDS format in 2015 to comply with GHS requirements.

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.

PERMIT MODIFICATION

APPENDIX D-2 ALTERNATIVE DAILY COVER APPROVAL LETTERS

Prepared for

Pine Hill Farms Landfill TX, LP

October 2015 Revised November 2017

Revised August 2022



Prepared by

Weaver Consultants Group, LLC TBPE Registration No. F-3727 6420 Southwest Blvd., Suite 206 Fort Worth, Texas 76109 817-735-9770

ATTACHMENT 2 SOP REPLACEMENT PAGES (CLEAN COPY)

PERMIT MODIFICATION

SITE OPERATING PLAN

Prepared for

Pine Hill Farms Landfill TX, LP

November 2006 Revised June 2007 Revised June 2008 Revised October 2015 Revised May 2016 Revised September 2017

Revised August 2022

RYNE J. SPICER

118934

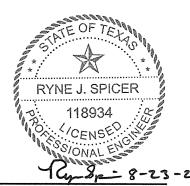
CENSE

ON ALEROMAN

Prepared by

Weaver Consultants Group, LLC

TBPE Registration No. F-3727 6420 Southwest Boulevard, Suite 206 Fort Worth, Texas 76109 817-735-9770



CONTENTS

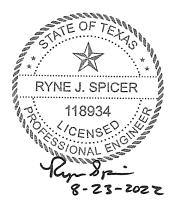
LIST OF TABLES AND FIGURES		v	
LIST OF ACRONYMS			vi
1	INTF	RODUCTION	1
2	PER!	SONNEL AND TRAINING	2
	2.1	Personnel	2
		2.1.1 Royal Oaks Landfill Management Team	2 2
		2.1.2 Landfill Manager/Site Manager	2
		2.1.3 Scale Operators	3
		2.1.4 Equipment Operators	4
		2.1.5 Spotters and Laborers	5
		2.1.6 Mechanics	5
		2.1.7 Other Site Personnel	5
	2.2	2.1.8 Other Corporate Resources	5
	2.2	Training	6
3	EQU	IPMENT	9
4	OPE	RATIONAL PROCEDURES	12
	4.1	Access Control	12
		4.1.1 Site Security	12
		4.1.2 Traffic Control	13
	4.2	Unloading Wastes	13
		4.2.1 Unloading Areas	13
		4.2.2 Waste Excluded from Disposal at the Site	13
		4.2.3 Waste Unloading Procedures	14
		4.2.4 Maximum Size of the Unloading Area	14
		4.2.5 Prohibited Waste	16
	4.3	Hours of Operation	16
	4.4	Site Signs	17
	4.5	Control of Windblown Wastes and Litter	17
	4.6	Easements and Buffer Zones	18
		4.6.1 Easements	18
	4 7	4.6.2 Buffer Zones	19
	4.7	Landfill Markers and Benchmark	19
	4.8	Control of Waste Spilled on Route to the Site	20
	4.9	Disposal of Large Items	21

Weaver Consultants Group, LLC Rev. 5, 8/23/2022



CONTENTS (Continued)

	4.10	Air Quality and Odor Management Plan	21
	4.11	Disease Vector Control	23
	4.12	Maintenance of Site Access	23
	4.13	Salvaging and Scavenging	24
	4.14	Endangered Species	24
	4.15	Control of Landfill Gas	24
	4.16	Treatment of Oil, Gas, and Water Wells	25
	4.17	Compaction of Solid Waste	26
	4.18	Soil Management, Placement, and Compaction of Daily,	
		Intermediate, and Final Cover	26
		4.18.1 Soil Management	26
		4.18.2 Daily Cover	27
		4.18.3 Intermediate Cover	28
		4.18.4 Final Cover	28
		4.18.5 Cover Application Log	30
	4.19	Prevention of Ponded Water	30
	4.20	Disposal of Special Wastes	31
		4.20.1 Sludges	33
		4.20.2 Dead Animals	33
		4.20.3 Empty Containers	33
		4.20.4 Nonregulated Asbestos-Containing Materials	33
		4.20.5 Industrial Waste	34
	4.21	Prevention of Discharge of Contaminated Water	34
	4.22	Leachate and Contaminated Water Plan	34
	4.23	Site Inspection and Maintenance List	35
	4.24	Visual Screening of Daily Operations	36
5	SEQU	JENCE OF DEVELOPMENT	37
6	DETE	ECTION AND PREVENTION OF DISPOSAL OF PROHIBITED	
	WAS	ΓES	38
	6.1	General	38
	6.2	Load Inspection Procedure	38
	6.3	Recordkeeping	41
	6.4	Training	41
	6.5	Managing Prohibited Wastes	42
	6.6	Managing Mishandled or Undeclared Special Waste	42



CONTENTS (Continued)

7	FIRE	PROTECTION PLAN	43
	7.1	Fire Protection Training	43
	7.2	Fire Protection Standards	44
		7.2.1 Posted Information	44
		7.2.2 Fire Safety Rules	44
		7.2.3 Burning Waste Loads (Hot Loads)	44
	7.3	Accidental Fires	45
	7.4	Preventive Procedures	45
	7.5	Vehicle or Equipment Fire	46
	7.6	Structure Fire	46
	7.7	Working Face(s) Fire Protection Plan	46
		7.7.1 Working Face Fire Protection Requirements (§330.115)	46
		7.7.2 Working Face Fire Fighting Plan	46
		7.7.3 Water Trucks or Storage Tank Requirements	47
		7.7.4 Soil Stockpile Requirements	48
	7.8	Citizens Convenience Center Fire	50
	7.9	Contacting Fire Department and TCEQ	50
8	SAFETY		
	8.1	General Site Safety	51
	8.2	Preparedness and Prevention Measures	52
		8.2.1 General	52
		8.2.2 Scale House	52
		8.2.3 Landfill Access Road	53
9	RECO	ORDKEEPING REOUIREMENTS	54

APPPENDIX A

Example Load Inspection Report

APPENDIX B

Protection of Endangered Species Documentation

APPENDIX C

Waste Acceptance Plan

APPENDIX D

Alternate Daily Cover Operating Plan Information

Weaver Consultants Group, LLC

Rev. 5, 8/23/2022

PERMIT MODIFICATION

SITE OPERATING PLAN APPENDIX D ALTERNATE DAILY COVER OPERATING PLAN INFORMATION

Prepared for

Pine Hill Farms Landfill TX, LP

July 2006 Revised October 2015 Revised November 2017

Revised August 2022

RYNE J. SPICER

RYNE J. SPICER

118934

CENSE

SOYONAL ENGINE

8-23-2022

Prepared by

Weaver Consultants Group, LLC

TBPE Registration No. F-3727 6420 Southwest Blvd., Suite 206 Fort Worth, Texas 76109 817-735-9770

CONTENTS

ADC SUMMARY D-1

APPENDIX D-1

Alternative Daily Cover Operating Plan Information

APPENDIX D-2

Alternative Daily Cover Approval Letters



ADC SUMMARY

The site is currently approved to use Bio-cover, Enviro-cover, Enviro-Plus, Enviro-Gro, and Quick Cover spray-on type ADC materials, contaminated soils ADC, and VERDac Landfill Cover Pellets. Bio-cover, Enviro-cover, Enviro-Plus, and Enviro-Gro spray-type ADC materials were approved on February 20, 2002. Contaminated soil ADC was approved on March 24, 2016. The approval letter for Bio-Cover, Enviro-Cover, Enviro-Gro, contaminated soils, and VERDac are included in Appendix D-2. The ADCOP for Quick Cover, contaminated soils, and VERDac Landfill Cover Pellets are provided on the following pages.

Consistent with §330.165(d), a temporary authorization will be submitted for any additional future ADC materials. Consistent with 30 TAC 330.165(d) (2), after a Temporary Authorization to use a new ADC material is approved, a status report for the new ADC material will be submitted on a two-month basis to the TCEQ describing the effectiveness of the alternative materials, any problems that may have occurred, and corrective actions required as a result of such problems. The trial period will be for two-180 day periods with an extension request to be submitted near the end of the first 180 day period. If no unresolved problems occur within the trial period, a permit modification per §305.70(k)(1) will be submitted to the TCEQ to obtain permanent approval of the ADC material.

PERMIT MODIFICATION

APPENDIX D-1 ALTERNATIVE DAILY COVER OPERATING PLAN

Prepared for

Pine Hill Farms Landfill TX, LP

October 2015 Revised November 2017

Revised August 2022

RYNE J. SPICER

118934

CENSE

NO. CENSE

NO. CENSE

R-23-2022

Prepared by

Weaver Consultants Group, LLC TBPE Registration No. F-3727 6420 Southwest Blvd., Suite 206 Fort Worth, Texas 76109 817-735-9770

CONTENTS

SIT	E OPERA	ATING PLAN	1
1	INTF	RODUCTION	1
2	MATERIAL CHARACTERISTICS		2
	2.1	Description of ADC Materials	2
	2.2	Chemical Characteristics	2
3	OPE	RATIONAL METHODS	3
	3.1	Contaminated Soil	3
	3.2	Quick Cover	3
	3.3	VERDac Landfill Cover Pellets	4
4	ADC	MATERIAL PERFORMANCE AND INSPECTION PROCEDURES	5
	4.1	ADC Performance	5
	4.2	Verification and Inspection Procedures	5

APPENDIX D-1-A

Quick Cover Information

APPENDIX D-1-B

VERDac Landfill Cover Pellets Information



2 MATERIAL CHARACTERISTICS

2.1 Description of ADC Materials

Contaminated soil materials that are not classified as Class 1 non-hazardous industrial solid waste and are authorized to be accepted at the Royal Oaks Landfill, may be applied as ADC.

The contaminated soil will be applied with a minimum thickness of 6 inches. Clean soil will be added to the contaminated soil if necessary to achieve the minimum thickness. Additionally, other approved ADC material may be used in conjunction with contaminated soil.

Quick Cover is produced by Tascon, Inc. Quick Cover is a blend of cellulose fiber mulch and a binding agent that forms a slurry when mixed with water. The mulch is manufactured from recycled fiber stock (mixed papers) and the binding agent is composed of guar gum powder and applied with a hydromulch machine. This ADC spray material will form a crust-like barrier after application. Additional information for Quick Cover is included in Appendix D-1-A.

VERDac Landfill Cover Pellets (VERDac) is a spray-applied mulch and mineral mortar slurry product manufactured by LSC Environmental Products, LLC. VERDac Landfill Cover Pellets ADC is a non-flammable blend of mulch and mineral binder providing a thin, non-toxic coating which has been demonstrated as effective for controlling odors, windblown waste, and vectors at numerous facilities.

2.2 Chemical Characteristics

Soil materials contaminated with petroleum, pesticides, and metals that are accepted at the site as special waste (in accordance with the site's permitted waste acceptance plan) and soil contaminated with Class 2 industrial waste may be used as ADC. Consistent with 30 TAC §330.165(d)(4) (A), contaminated soil used as ADC will not contain polychlorinated biphenyl wastes that are subject to the disposal requirements of 40 Code of Federal Regulations Part 761. Consistent with 30 TAC §330.165(d) (4)(3), the TPH of the petroleum contaminated soil must be equal to or below 1500 milligrams per kilogram. Soils contaminated with pesticides will be tested for TCLP pesticides and herbicides and TCLP metals (RCRA 8 metals). Soils contaminated with metals will be tested for TCLP metals (RCRA 8 metals). Other contaminated soils will be tested for process knowledge driven constituents of concern. Contaminated soils used as ADC will not contain constituents of concern exceeding the concentration totals in Table 1 of 30 TAC §335.521(a)(1) (i.e., soil classified as non-Class 1 waste), consistent with 30 TAC §330.165(d)(4). The contaminated soils chemical characteristics will be attached to the generator waste profile sheet that

accompanies the waste at the time of acceptance and will be maintained in the Site Operating Record.

The MSDS for Quick Cover is included in Appendix D-1-A. Quick Cover is not reactive, ignitable, or corrosive under the expected conditions (i.e., high temperature, intense sunlight).

VERDac is comprised of cellulose fiber, powdered clay, adhesives, and water conditioners. The chemical analysis of VERDac, as well as other pertinent characteristics, are included in Appendix D-1-B.

3 OPERATIONAL METHODS

3.1 Contaminated Soil

Contaminated soils will be stockpiled near the working face or fill area and spread over the working face with a dozer or similar equipment to achieve a minimum thickness of 6 inches of well-compacted material. Additionally, clean soil will be added as necessary to ensure the appropriate thickness is applied.

Stormwater runon to and runoff from the contaminated soil piles will be controlled by containment berms and/or diversion berms in accordance with Section 4.22 of the SOP, which references Attachment 15 (Leachate and Contaminated Water Plan), Section 2.3. The contaminated soil stockpiles will be located within the containment berms constructed around the working face. Stormwater that comes into contact with the contaminated soil in a stockpile will be considered contaminated water and managed consistent with the requirements for contaminated water in the facility's Leachate and Contaminated Water Plan (Attachment 15). The maximum size of the contaminated soil stockpile area will be 0.5 acres (maximum volume = 10,000 cy). The size of the contaminated soil stockpile area will be added to the working face area to determine the "Working Face and Daily Cover Area" (shown in Section 2.3 of Attachment 15) to calculate the "Approximate Containment Area" and dimensions.

Contaminated water will be contained at the working face as discussed in Attachment 15 of the permit. Contaminated water will be collected at the working face and removed using a vacuum truck no later than 7 days from the end of the rainfall event (also refer to Part IV, SOP, Section 4.19 for additional information regarding ponded water). The collected contaminated water will be transported via tanker trucks directly to a properly permitted privately owned off-site wastewater treatment facility or publicly owned treatment works (POTW) as discussed below.

3.2 Quick Cover

Quick Cover will be applied to the working face using a FINN T90 (900-gallon capacity) or similar equipment following the procedure listed below.

1. The operator will become familiar with this ADCOP and Quick Cover. Specifically, the mixing ratio and application rate for the spray-type ADC material. This ADCOP includes information on Quick Cover in Appendix D-1-A as well as the MSDS for this product; however, manufacturer's instructions included with the ADC material itself should be followed as well.

- 2. The operator will not operate the hydroseed machine until they have been trained by qualified personnel. Site personnel that are responsible for the application of ADC materials will receive training in the operation of the equipment, mixing procedures, and application methods.
- 3. The operator will mix the spray ADC according to the manufacturer's recommendation (1-50 pound bag per 100 gallons of water). Then, using the hydromulch machine, the operator will apply the ADC from at least two different directions to achieve a minimum thickness of 0.25 inches over the exposed waste at the working face. The operator will visually inspect the ADC to ensure that the minimum thickness is achieved and that no waste is left exposed.
- 4. The operator will not use the spray ADC around or near ignition sources.
- 5. The operator will be responsible for storing the spray ADC material in a dry location that is not susceptible to ponding water. The spray ADC material will be stored under a tarp, or equivalent, at all times to protect the material from moisture damage and direct sunlight. The operator will be responsible for inspecting the spray ADC material for moisture damage or other defects before each use. Any damaged or defective materials will not be allowed for use as ADC.
- 6. No more than 1,000 bags of spray ADC material will be stored at the site at any time. Additional spray ADC material will be ordered periodically to replenish the material used.

3.3 VERDac Landfill Cover Pellets

VERDac ADC is a spray-applied mulch and mineral mortar slurry comprised of water and a combination of cellulose fiber, powdered clay, adhesives, and water conditioners. This ADC will be applied to the working face using a FINN T90 (900-gallon capacity) or similar equipment following the procedures listed below:

- 1. The operator will become familiar with this ADCOP and VERDac. Specifically the mixing ratio and application rate for the spray-type ADC material. This ADCOP includes information on VERDac in Appendix D-1-B as well as the SDS; however, the manufacturer's instructions included with the ADC material itself should be followed as well.
- 2. The operator will mix the spray ADC according to the manufacturer's recommendations (50-pound bag to 80 gallons). Then using the hydromulch machine, the operator will apply the ADC from at least two different directions to achieve a minimum thickness of 0.25 inches over the exposed waste at the working face. The operator will visually inspect the ADC to ensure that the minimum thickness is achieved and that no waste is exposed.
- 3. The operator will not use the spray ADC around or near ignition sources.

- 4. The operator will be responsible for storing the spray ADC material in a location that is not susceptible to ponding water. The spray ADC material will be stored in the manufacturer's protective plastic wrapping, under a tarp, or equivalent, at all times to protect the material from moisture damage and direct sunlight. The operator will be responsible for inspecting the spray ADC material for moisture damage or other defects before each use. Any damaged or defective materials will not be allowed for use as ADC.
- 5. No more than 1,000 bags/bails of spray ADC material will be stored at the site at any time.
- 6. Stormwater that comes into contact with the VERDac ADC during use or storage will be treated as contaminated water and controlled in accordance with Section 4.21 of the Site Operating Plan (i.e., contained within the containment berms around the active area).

4 ADC MATERIAL PERFORMANCE AND INSPECTION PROCEDURES

4.1 ADC Performance

Contaminated soil ADC has been successfully used at other MSW landfill sites in Texas to control vectors, fires, odors, and windblown litter and waste. Contaminated soil forms a barrier over waste and this surface serves as a barrier much like clean soil. Contaminated soil will control vectors and windblown litter by creating a physical barrier between the atmosphere and the waste. Contaminated soil also minimizes airflow between the active face and the atmosphere, which minimizes fire hazards and odor potential.

The Quick Cover spray-type ADC material included in this plan has been successfully used at other MSW landfill sites in Texas to control vectors, fires, odors, and windblown litter and waste. This type of ADC forms a crust-like barrier over the waste and this crust-like surface serves as a barrier much like the tarp ADC material. The spray-type ADC will control vectors and windblown waste by creating a physical barrier between the atmosphere and waste (e.g., the cohesive nature of the ADC material will prevent windblown waste and the crust-like barrier of Quick Cover has been proven to prevent vectors). The cohesive nature of the spray-type ADC also minimizes the airflow between the active face and the atmosphere, which minimizes the fire hazard and odor potential.

The VERDac ADC specified in this plan creates a thin, non-toxic barrier over the waste. VERDac ADC will control vectors, odor, and windblown waste, as well as minimize fire hazards by creating a physical barrier between the atmosphere and waste due to the cohesive nature of the ADC material.

4.2 Verification and Inspection Procedures

At the end of each working day, landfill personnel will inspect the working face to confirm that the minimum thickness of an approved ADC has been placed over the working face in accordance with this ADCOP. Landfill personnel will routinely assess the effectiveness of each ADC in controlling vectors, fires, odors, and windblown litter and waste. Daily application of ADC will be documented and maintained in the Site Operating Record.

In the event ADC does not control vectors, fires, odors, or windblown waste, the ADC application process will be re-evaluated to ensure this ADC material adequately covers the working face and serves its intended purpose. Any required changes to the ADC operational procedures will be authorized through a permit modification.

APPENDIX D-1-B VERDac LANDFILL COVER PELLETS INFORMATION



SDS

LSC Environmental Products, LLC Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 1 of 4

Identification

Supplier

LSC Environmental Products, LLC

2183 Pennsylvania Ave

Apalachin, NY 13732

Telephone:

607-625-3050

Fax: Web: 607-625-2688 www.lscenv.com

Product Name

VERDac Landfill Cover Pellets

Description:

Green Dyed Cellulose Fiber from Shredded Wastepaper and Corn Fiber

and Sodium Montmorillonite Clay with Additives

CAS Number:

N/A

Recommended Use:

Alternative Daily Cover and Hydroseeding.

Hazards Identification

Route of Entry:

Eye: Skin: Eye Contact, Skin Contact, Inhalation

Hazards:

May cause mild skin irritation.

Ingestion:

No known health effects.

Inhalation:

Acute: Short term exposure may cause mechanical

irritation resulting in dry cough. May aggravate existing

May cause mechanical irritation.

respiratory illness.

Chronic:

Repeated inhalation of respirable* crystalline

silica above exposure limits can cause lung disease, including

silicosis and lung cancer.

Composition / Information on Ingredients

Components in order of Volume:

Cellulose Fiber, Corn Fiber, Sodium Montmorillonite Clay* (Cas # 1318-93-0), Proprietary ingredients and biodegradable green coloring.

*Typical western SMC contains 1-6% crystalline silica as quartz CAS# 14808-60-7.

4 First-Aid Measures

Eye:

Flush eyes and under eye lids with plenty of water until irritation ceases. Contact

physician if irritation persists.

Skin:

Wash with soap and water until clean. Contact physician if irritation develops.

Ingestion:

None known.

Inhalation:

Move to area free from dust. If symptoms of irritation persist, contact physician.



SDS

LSC Environmental Products, LLC Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 2 of 4

Inhalation may aggravate existing respiratory illness.

Fire Fighting Measures

Flammability:

Combustible product

Auto-ignition Temp:

400-500 F

Fire Extinguishing Media:

Water, Carbon Dioxide, Sand.

Accidental Release Measures

Personal Precaution:

Avoid breathing dust; wear respirator approved for silica bearing dust. Vacuum to avoid generating airborne dust. Avoid using water. Material

becomes slippery when wet.

Handling and Storage

Handling:

Cleanup:

Use NIOSH/MSHA respirators approved for silica bearing dust when airborne

SMC dust levels exceed PEL/TLVs. Clean up spills promptly to avoid making

dust. Storage area floors may become slippery if wetted.

Storage:

Store in a dry place. Keep away from ignition sources.

Exposure Controls / Personal Protection

Exposure Guidelines (Inhalation):

Component

OSHA PEL (8 hr TWA)

ACGIH TVL

Crystalline Silica as Quartz

 0.1 mg/m^3

 $0.1 \, \text{mg/m}^3$

Wood Dust

 1 mg/m^3

 1 mg/m^3

Particles Not Otherwise Regulated

Total Dust

15 mg/m³

N/A

Respirable Dust

 5 mg/m^3

N/A

Engineering Controls:

None required for outdoor mixing and application. Use

local ventilation to maintain PELs/TLVs if handling

indoors.

Personal Protective Equipment:

Eye and Face Protection:

Wear safety glasses or goggles during loading and

application to protect from dust, splashing, and spray

mist.

Skin Protection:

Wear gloves and overalls to protect skin and clothing

from contact with product. Personal hygiene measures, such as washing hands and face after working with

materials, are recommended.



SDS

LSC Environmental Products, LLC Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 3 of 4

Respiratory Protection:

When handling generates dust levels above exposure limits, use respirators approved by NIOSH/MSHA for

silica bearing dust.

9 Physical and Chemical Properties

Appearance:

Green Pellets

Odor:

N/A

Physical State:

Granular Mixture of Cellulose Fiber, Corn Fiber, Sodium

Montmorillonite Clay, Proprietary Ingredients, Dye

pΗ:

5.5-7.0

Specific Density:

20-35#'s/ft3 (approximate)

Specific Gravity: Solubility in Water: N/A <2%

Vapor Pressure (mm Hg):

N/A

10 Stability and Reactivity

Stability:

Stable

Conditions to Avoid:

Avoid open flame. Store in dry areas.

Materials to Avoid: Hazardous Polymerization: N/A No.

11 Toxicological Information

Carcinogenicity:

- Sodium Montmorillonite Clay 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 guartz as a suspected human carcinogen (A2).

12 Ecological Information

No information available.

13 Disposal Considerations

Bury in licensed landfill according to local, state, and federal regulations.



SDS

LSC Environmental Products, LLC Issue Date: July 10, 2020

VERDac Landfill Cover Pellets

Page 4 of 4

14 Transportation Information

US DOT:

Non-regulated

15 Regulatory Information

None of the components in this product are known to be regulated by national or international regulatory bodies.

16 Other Information

SDS Status:

Revised from MSDS format in 2015 to comply with GHS requirements.

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.

ROYAL OAKS LANDFILL CHEROKEE COUNTY, TEXAS TCEQ PERMIT NO. MSW-1614A

PERMIT MODIFICATION

APPENDIX D-2 ALTERNATIVE DAILY COVER APPROVAL LETTERS

Prepared for

Pine Hill Farms Landfill TX, LP

October 2015 Revised November 2017

Revised August 2022

RYNE J. SPICER

118934

CENSE

CONSTRUCTOR

8-23-2022

Prepared by

Weaver Consultants Group, LLC TBPE Registration No. F-3727 6420 Southwest Blvd., Suite 206 Fort Worth, Texas 76109 817-735-9770

WCG Project No. 0120-076-11-102

ATTACHMENT 3 VERDAC TEMPORARY AUTHORIZATION APPROVAL LETTERS

Jon Niermann, *Chairman*Emily Lindley, *Commissioner*Bobby Janecka, *Commissioner*Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 29, 2021

Mr. Austin Sparks Environmental Manager Pine Hill Farms Landfill TX, LP 3031 FM 3417 Mount Pleasant Texas, 75456

Subject: Royal Oaks Landfill - Cherokee County

Municipal Solid Waste (MSW) - Permit No. 1614A

Temporary Authorization - Approved

Tracking No. 26190177; RN101927010/CN600129530

Dear Mr. Sparks:

We have reviewed the request dated June 15, 2021, for a temporary authorization for the above-referenced facility to use VERDac Landfill Cover Pellets spray-type cover on a trial basis to evaluate its effectiveness as an alternate daily cover (ADC) material(s). In accordance with Title 30 Texas Administrative Code, §305.62(k), our evaluation indicates that the information presented is sufficient to allow the requested temporary authorization with the conditions established in the enclosed issuance document.

The enclosed copy of the referenced temporary authorization should be maintained in the facility's files. The documentation prepared and submitted to support the temporary authorization request shall be considered as requirements of the permit.

If you have any questions concerning this matter, please contact Mr. Adam Schnuriger at (512) 239-0526, Adam.Schnuriger@tceq.texas.gov or in writing at the address on our letterhead (please include mail code MC 124 on the first line).

This action is taken under authority delegated by the executive director of the Texas Commission on Environmental Quality.

Sincerely,

Chance Goodin, Manager

Municipal Solid Waste Permits Section

Waste Permits Division

CG/AS/tw

cc: Chad Ellinger, P.E., Civil & Environmental Consultants, Inc., Houston

Enclosure

Texas Commission on Environmental Quality



Temporary Authorization Municipal Solid Waste Permit No. 1614A Pine Hill Farms Landfill TX, LP – Royal Oaks Landfill

Municipal Solid Waste (MSW) Permit No. 1614A is hereby authorized as follows:

Description of Temporary Authorization:

Royal Oaks Landfill, MSW Permit No. 1614A is hereby authorized to use the following material(s) on a trial basis to evaluate its effectiveness as an alternative daily cover (ADC), subject to the following conditions.

- 1. The permittee shall contact the Texas Commission on Environmental Quality Region 5 office at least ten days prior to the use of ADC materials and on a regular basis thereafter, to allow inspection and monitoring of the performance of the ADC material(s) during this trial period.
- 2. Types of ADC material(s) to be used during this trial period shall be limited to the following:
 - VERDac Landfill Cover Pellets by LSC Environmental Products, LLC; Green dyed cellulose fiber from shredded wastepaper and corn fiber and Sodium Montmorillonite.
- 3. The ADC material will be applied to the working face using a FINN T90 (900-gallon capacity) or similar equipment and must be prepared as recommended by the manufacturer to achieve an overall thickness of not less than 0.125 inches over the exposed waste.
- 4. Storm water runoff from areas that have been covered with contaminated soil ADC and from contaminated soil ADC stockpiles shall be controlled and managed as contaminated water.
- 5. The use of ADC materials is limited to a 24-hour period after which either waste or daily cover as defined in Title 30 Texas Administrative Code (30 TAC), §330.165(a) must be placed.
- 6. The trial period shall begin 15 days after the date this temporary authorization is issued, unless an alternate start date was requested in writing by the permittee and approved as part of this temporary authorization.
- 7. The ADC trial period should include all seasons of the year; therefore, as the facility nears the end of the initial trial period, an extension may be requested. Each ADC

Temporary Authorization MSW Permit No. 1641A Page 2 of 2

material listed in this temporary authorization may be used for not more than 180 days following initiation of the trial period, and for an additional trial period not to exceed 180 days upon approval of a one-time extension. This temporary authorization for the first trial period will expire 180 days after the initiation of the trial period.

- 8. If after a one year trial period, the ADC material(s) prove(s) to be effective as daily cover in accordance with 30 TAC §330.165(d), the facility may request to incorporate the material(s) as (an) option(s) in the permit by an amendment in accordance with 30 TAC §305.62, or a modification with notice in accordance with 30 TAC §305.70(k)(1).
- 9. In accordance with 30 TAC §330.165(d)(2), written status reports for each ADC material shall be submitted on a two-month basis to the executive director during the trial period. The reports shall include usage logs listing the days the ADC was used at the site, and shall contain information describing the effectiveness of the ADC material, any problems that may have occurred, and corrective action required as a result of such problems. If an ADC material is not utilized during each two-month period, the status report should also discuss this fact.

The details of this temporary authorization are contained in the request dated June 15, 2021 and shall be considered as requirements of the permit.

Approved, Issued and Effective in accordance with 30 TAC §305.62(k), for 180 days.

Issued Date: July 29, 2021

For the Commission

Jon Niermann, *Chairman*Emily Lindley, *Commissioner*Bobby Janecka, *Commissioner*Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 8, 2022

Mr. Austin Sparks, P.E. Environmental Manager Pine Hill Farms Landfill TX, LP 608 CR 4102 Jacksonville, Texas 75766

Subject: Royal Oaks Landfill - Cherokee County

Municipal Solid Waste (MSW) - Permit No. 1614A

Temporary Authorization - Approved

Tracking No. 27334602; RN101927010/CN600129530

Dear Mr. Sparks:

We have reviewed the request dated February 2, 2022, for reissuance of a temporary authorization for the above-referenced facility to use VERDac Landfill Cover Pellets (VERDac) on a trial basis to evaluate their effectiveness as alternative daily cover (ADC) materials. In accordance with Title 30 Texas Administrative Code, §305.62(k), our evaluation indicates that the information presented is sufficient to allow the requested temporary authorization with the conditions established in the enclosed issuance document.

The enclosed copy of the referenced temporary authorization should be maintained in the facility's files. The documentation prepared and submitted to support the temporary authorization request shall be considered as requirements of the permit.

If you have any questions concerning this matter, please contact Mr. Frank Zeng at (512) 239-1132, or in writing at the address on our letterhead (please include mail code MC 124 on the first line).

This action is taken under authority delegated by the executive director of the Texas Commission on Environmental Quality.

Sincerely,

Chance Goodin, Manager

Municipal Solid Waste Permits Section

Waste Permits Division

CG/FZ/tw

Enclosure

Texas Commission on Environmental Quality



Temporary Authorization Municipal Solid Waste Permit No. 1614A Pine Hill Farms Landfill TX, LP – Royal Oaks Landfill

Municipal Solid Waste (MSW) Permit No. 1614A is hereby authorized as follows:

Description of Temporary Authorization:

Royal Oaks Landfill, MSW 1614A is hereby authorized to use the following materials on an extended trial basis to evaluate their effectiveness as an alternative daily cover (ADC), subject to the following conditions.

- 1. The permittee shall contact the Texas Commission on Environmental Quality Region 5 office at least ten days prior to the use of ADC materials and on a regular basis thereafter, to allow inspection and monitoring of the performance of the ADC materials during this trial period.
- 2. Types of ADC materials to be used during this extended trial period shall be limited to the following:
 - VERDac Landfill Cover Pellets by LSC Environmental Products, LLC; Green dyed cellulose fiber from shredded wastepaper and corn fiber and Sodium Montmorillonite.
- 3. The ADC materials will be applied to the working face using a FINN T90 (900-gallon capacity) or similar equipment and must be prepared as recommended by the manufacturer to achieve an overall thickness of not less than 0.125 inches over the exposed waste.
- 4. Storm water runoff from areas that have been covered with contaminated soil ADC and from contaminated soil ADC stockpiles shall be controlled and managed as contaminated water.
- 5. The use of ADC materials is limited to a 24-hour period after which either waste or daily cover as defined in Title 30 Texas Administrative Code (30 TAC), §330.165(a) must be placed.
- 6. If after this trial period, the ADC materials prove to be effective as daily cover in accordance with 30 TAC §330.165(d), the facility may request to incorporate the materials as an option in the permit by an amendment in accordance with 30 TAC §305.62, or a modification with notice in accordance with 30 TAC §305.70(k)(1).

Temporary Authorization MSW Permit No. 1614A Page 2 of 2

7. In accordance with 30 TAC §330.165(d)(2), written status reports for each ADC material shall be submitted on a two-month basis to the executive director during the trial period. The reports shall include usage logs listing the days the ADC was used at the site; and shall contain information describing the effectiveness of the ADC material, any problems that may have occurred, and corrective action required as a result of such problems. If an ADC material is not utilized during each two-month period, the status report should also discuss this fact.

The details of this temporary authorization are contained in the original request dated June 15,2021 and the extension request dated February 2,2022 and shall be considered as requirements of the permit.

Approved, Issued and *Effective* in accordance with 30 TAC §305.62(k), for 180 days starting on the expiration of the original Temporary Authorization trial period.

Issued Date: March 8, 2022

For the Commission

ATTACHMENT 4 TCEQ-20650 FORM



Texas Commission on Environmental Quality

Application Form for Municipal Solid Waste Permit or Registration Modification or Temporary Authorization

Application Tracking Information

Facility Name: Royal Oaks Landfill

Permittee or Registrant Name: Pine Hill Farms Landfill TX, LP					
MSW Authorization Number: 1					
Initial Submission Date: 08/20	22				
Revision Date:	<u></u>				
questions, contact the Municipa	Instructions for completing this form are provided in form TCEQ-20650-instr . If you have questions, contact the Municipal Solid Waste Permits Section by email to mswper@tceq.texas.gov , or by phone at 512-239-2335.				
Application Data					
1. Submission Type					
■ Initial Submission	☐ Notice of Deficiency (NOD) Response				
2. Authorization Type					
Permit	Registration				
3. Application Type					
■ Modification with Public Not	ice Modification without Public Notice				
☐ Temporary Authorization (T	A) Modification for Name Change or Transfer				
4. Application Fee					
Amount					
The application fee for a modification or temporary authorization is \$150.					
Payment Method					
Check	☐ Check				
■ Online through ePay portal <u>www3.tceq.texas.gov/epay/</u>					
If paid online, enter ePay Trace Number: 582EA000502982					

¹ www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20650-instr.pdf

5. Application URL				
For modifications that require notice (other than those for arid exempt landfills), provide the URL address of a publicly accessible internet web site where the application and all revisions to the application will be posted: www.ftwweaverboos.com				
6. Party Responsible for Mailing Notice				
For modifications that require notice, indicate who will be responsible for mailing notice:				
☐ Applicant ☐ Agent in Service ☐ Consultant				
Contact Name: Ryne Spicer, P.E.				
Title: Project Director				
Email Address: rspicer@wcgrp.com				
7. Confidential Documents				
Does the application contain confidential documents?				
☐ Yes ■ No				
If "Yes", reference the confidential documents in the application, but submit the confidential documents as an attachment in a separate binder marked "CONFIDENTIAL."				
8. Facility General Information				
Facility Name: Royal Oaks Landfill				
Contact Name: Duane Weatherford Title: Operations Manager				
MSW Authorization Number (if existing): 1614A				
Regulated Entity Reference Number: RN 101927010				
Physical or Street Address: 608 CR 4102				
City: Jacksonville County: Cherokee State: TX Zip Code: 75766				
Phone Number: 903-570-5126				
Latitude (Degrees, Minutes Seconds): 32° 00' 05"				
Longitude (Degrees, Minutes Seconds): 95° 16′ 03″				
9. Facility Types				
■ Type I ☐ Type IV ☐ Type V				
☐ Type IAE ☐ Type IVAE ☐ Type VI				

10. Description of the Revisions to the Facility

Provide a brief description of revisions to permit or registration conditions and supporting documents referred to by the permit or registration, and a reference to the specific provisions under which the modification or temporary authorization application is being made. Also, provide an explanation of why the modification or temporary authorization is needed:

The purpose of this permit modification is to request the use of VERDac Spray-Type Alternative Daily Cover (ADC) at the Royal Oaks Landfill on a permanent basis in accordance with 30 TAC §305.70(k)(1).

11. Facility Conta	ct Information			
Site Operator (Perm	ittee or Registrant)			
Name: Pine Hill Farn	ns Landfill TX, LP		_	
Customer Reference N	umber: CN <u>600129530</u>			
Contact Name: Austin	Sparks	Title: Environmental Manager		
Mailing Address: 1292				
City: Tyler	County: Smith		State: TX	Zip Code: <u>75708</u>
Phone Number: 903-5	539-7986			
Email Address: aspar	ks3@republicservices.com	<u>m</u>		
Texas Secretary of Sta	te (SOS) Filing Number: 00	10372711		
Operator (if differen	t from <i>Site Operator</i>)			
Name: Same as Site	Operator		_	
Customer Reference N	umber: CN			
Contact Name:		Title:		
Mailing Address:				
City:	County:		State:	Zip Code:
Phone Number:				
Email Address:				
Texas Secretary of Sta	te (SOS) Filing Number:			

Consultant (if applicable)					
Firm Name: Weaver Consultants Group, LLC					
Consultant Name: Ryne Spicer, P.E.					
Texas Board of Professional Engineers Firm Registration Number: F-3727					
Contact Name: Ryne Spicer, P.E. Title: Project Director					
Mailing Address: 6420 Southwest Blvd., Suite 206					
City: Fort Worth County: Tarrant State: TX Zip Code: 76109					
Phone Number: 817-735-9770					
Email Address: rspicer@wcgrp.com					
Agent in Service (required for out-of-state applicants)					
Name:					
Mailing Address:					
City: State: <u>TX</u> Zip Code:					
Phone Number:					
Email Address:					
12. Ownership Status of the Facility					
Is this a modification that changes the legal description, the property owner, or the Site Operator (Permittee or Registrant)?					
☐ Yes 🔞 No					
If the answer is "No", skip this section.					
Does the Site Operator (Permittee or Registrant) own all the facility units and all the facility property?					
☐ Yes ■ No					
If "No", provide the following information for other owners.					
Owner Name: City of Jacksonville					
Mailing Address: P.O. Box 1390					
City: <u>Jacksonville</u> County: <u>Cherokee</u> State: <u>TX</u> Zip Code: <u>75766</u>					
Phone Number: 903-586-3510					
Email Address: hr@jacksonvilletx.org					

Signature Page

Site Operator or Authorized Signatory

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Austin Sparks	Title: Environmental Manager
Email Address: asparks3@republicserv	ices.com_
Signature:	Date: <u>08/23/2022</u>
Operator or Principal Executive Officer Des	ignation of Authorized Signatory
To be completed by the operator if the application for the operator.	on is signed by an authorized representative
I hereby designate and hereby authorize said representative to sign information as may be requested by the Commis or before the Texas Commission on Environmen for a Texas Water Code or Texas Solid Waste Di I am responsible for the contents of this applicate authorized representative in support of the appliand conditions of any permit which might be issued.	n any application, submit additional ssion; and/or appear for me at any hearing tal Quality in conjunction with this request sposal Act permit. I further understand that tion, for oral statements given by my ication, and for compliance with the terms
Operator or Principal Executive Officer Name:	
Email Address:	·····
Signature:	Date:
Notary	
SUBSCRIBED AND SWORN to before me by the	said Austin Sparks
On this 23 day of August, 2022	₩
My commission expires on the 17th day of m	ay ,2025
Notary Public in and for Tarrant County, Texas	HELEN M. HANSON Notary Public, State of Texas Comm. Expires 05-17-2025 Notary ID 10180332

Note: Application Must Bear Signature and Seal of Notary Public

Attachments for Permit or Registration Modification with Public Notice

Refer to instruction document 200650-instr for professional engineer seal requirements.

Attachments Table 1. Required attachments.

Required Attachments	Attachment Number
Land Ownership Map	5
Landowners List	5
Marked (Redline/Strikeout) Pages	1
Unmarked Revised Pages	2

Attachments Table 2. Additional attachments as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
☐ TCEQ Core Data Form(s)	
☐ Signatory Authority Delegation	
☐ Fee Payment Receipt	
☐ Confidential Documents	

Attachments for Permit or Registration Name Change or Transfer Modification

Refer to instruction document **200650-instr** for professional engineer seal requirements.

Attachments Table 5. Required attachments.

Required Attachments	Attachment Number
TCEQ Core Data Form(s)	
Property Legal Description	
Property Metes and Bounds Description	
Metes and Bounds Drawings	
On-Site Easements Drawing	
Land Ownership Map	
Land Ownership List	
Property Owner Affidavit	
Verification of Legal Status	
Evidence of Competency	

Attachments Table 6. Additional attachments as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
☐ Signatory Authority Delegation	
☐ Fee Payment Receipt	
☐ Confidential Documents	
☐ Final Plat Record of Property	
Assumed Name Certificate	

ATTACHMENT 5 ADJACENT LANDOWNERS LIST AND MAP

ADJACENT PROPERTY OWNER LIST AND MAP

The following list in Table 5-1 and map on Figure 5-1 provide the names, mailing addresses, and location of the "Adjacent and Potentially Affected Property Owners" within 0.25 miles of the site. Refer to Figure 5-1, Adjacent Property Owner Map, for location of the properties. The numbering on the property owner list in Table 5-1 corresponds to the numbers listed on Figure 5-1. The list is based on records of the Cherokee County Appraisal District, posted on the Cherokee County Appraisal District website http://www.cherokeecad.com/.

In accordance with Title 30 Texas Administrative Code $\S 330.59(c)(3)$, the availability of mineral ownership beneath the facility has been investigated. The real property appraisal records do not show any mineral rights owners.

TABLE 5-1 PROPERTY OWNER LIST

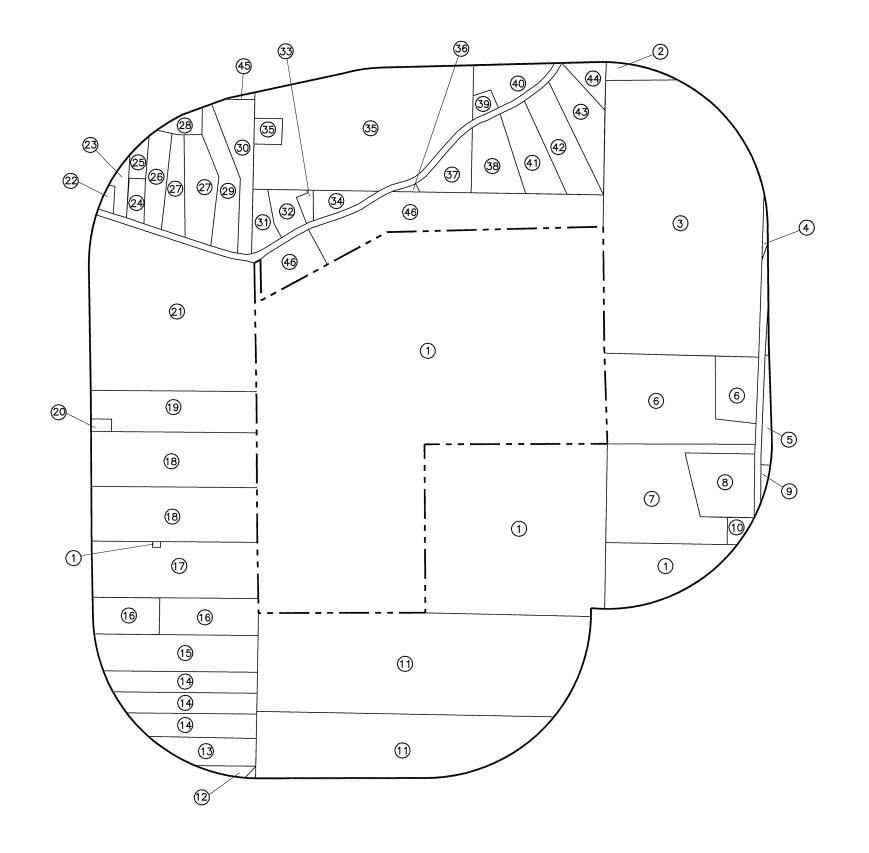
-			
1.	CITY OF JACKSONVILLE PO BOX 1390 JACKSONVILLE TX 75766	11.	ALLEN EARLE L SR & BONNIE R LIFE ESTATE 408 LENORA ST JACKSONVILLE TX 75766
2.	LARRY & TERRY ODOM ESTATE 1342 CR 4102 JACKSONVILLE TX 75766	12.	RICHARD CRANE 2417 LAKESHORE DRIVE JACKSONVILLE TX 75766
3.	KELLENE S JARRATT 122 LA COLINA EDGEWATER FL 32141	13.	BENJAMIN BECERRA LOPEZ 1512 ELBERTA STREET JACKSONVILLE TX 75766
4.	ROLAND ADAMS 1101 CANADA JACKSONVILLE TX 75766	14.	TROY D ALLEN 1528 ELBERTA STREET JACKSONVILLE TX 75766
5.	FRANK STUART 1660 CR 4101 JACKSONVILLE TX 75766	15.	JADE NEELY ETAL C/O JADE L NEELY 389 CR 3908 JACKSONVILLE TX 75766
6.	KENNETH W & STET HOOTON 460 CR 2408 RUSK, TX 75785	16.	RODNEY ROWE STET JACKSONVILLE TX 75766
7.	ROBERTA MAE HAIGHT C/O KIMMI KIMBRELL 1615 CR 4101 JACKSONVILLE, TX 75766	17.	11 X 17 OFFICE SOLUTIONS LLC PO BOX 117 JACKSONVILLE TX 75766
8.	KIMMI DANIELS ETAL C/O JANET MCDANIEL 2425 HOLLY ST JACKSONVILLE, TX 7566	18.	SNOKE SPECIAL PRODUCTS CO INC ATTN JOHN WILSON PO BOX 955 BULLARD TX 75757
9.	SKYLAR 237 PROPERTIES, LLC 4823 BAYWOOD DR PASADENA, TX 77505	19.	AGAPE CHRISTIAN FELLOWSHIP C/O CHRIST THE SAVIOUR ORTHADOX CHRISTIAN CHURCH PO BOX 2375
10.	BOB E WALLACE C/O PEGGY FOSHEE 1505 CUSHING TYLER TX 75702	20.	JACKSONVILLE TX 75766 SCHARA LANDON JOHNSON PO BOX 882 WYLIE, TX 75098

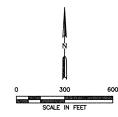
TABLE 5-1 PROPERTY OWNER LIST (Continued)

21.	TIM & DEBRA S PIERCE 1828 ELBERTA STREET JACKSONVILLE TX 75766	31.	ANTONIO L & SOLEDAD H RIOS 653 CR 4102 JACKSONVILLE TX 75766
22.	JOYCE D KELLY C/O SAMMIE GREEN 5491 ST HWY 135N JACKSONVILLE TX 75766	32.	TOBY W & LAURA A PHILLIPS 707 CR 4102 JACKSONVILLE TX 75766
23.	ZACARIAS RESENDIZ & MARTHA MARTINEZ 145 CR 4126 JACKSONVILLE TX 75766	33.	FLORES VERONICA MARTINEZ AND JANICE WASHBURN ESTATE 733 CR 4102 JACKSONVILLE TX 75766
24.	JOSE ANTONIO SERVIN 435 CR 4102 JACKSONVILLE TX 75766	34.	MARIA D AND EDUARDO D RODRIGUEZ 1508 BURLESON ST JACKSONVILLE, TX 75766
25.	VENANCIO SERVIN 229 CR 4126 JACKSONVILLE TX 75766	35.	BRIAN A & SHANNON DODD 883 CR 4102 JACKSONVILLE TX 75766
26.	JOSE ANTONIO SERVIN 435 CR 4102 JACKSONVILLE TX 75766	36.	NORTH CHEROKEE WATER SUPPLY CORP PO BOX 1021 JACKSONVILLE TX 75766
27.	DOUGLAS & KIMBERLY CONAWAY PO BOX 1343 JACKSONVILLE TX 75766	37.	TOMMY J & DEBRA D GRIFFIN PO BOX 1835 JACKSONVILLE TX 75766
28.	EVERETT PAUL GROGAN 254 CR 4126 JACKSONVILLE TX 75766	38.	MARTIN LUNA 1024 CR 4102 JACKSONVILLE TX 75766
29.	KEITH & CAROLYN WRIGHT 3815 CR 1120 TYLER TX 75704	39.	SHIRLEY CLARA L 1043 CR 4102 JACKSONVILLE TX 75766
30.	JOSE & RAFAELA HERERRA 593 CR 4102 JACKSONVILLE TX 75766	40.	I AND K PROPERTIES LTD 2070 EQUESTRIAN TYLER, TX 75703

TABLE 5-1 PROPERTY OWNER LIST (Continued)

- 41. ANDRES SERVIN
 1084 CR 4102
 JACKSONVILLE TX 75766
- 42. ALFREDO BALDERAS 1132 CR 4102 JACKSONVILLE TX 75766
- 43. CIPRIANO & ANTONIO RIOS 1007 DEATON ST JACKSONVILLE TX 75766
- 44. GUADALUPE & JUAN C ZAVALA
 1220 CR 4102
 JACKSONVILLE TX 75766
- 45. SUSAN CLEMENTS MELIAH LIFE ESTATE 472 CR 4126 JACKSONVILLE TX 75766
- 46. JACKSONVILLE ECONOMIC
 DEVELOPMENT CORPORATION
 309 E COMMERCE ST
 JACKSONVILLE, TX 75766





LEGEND

Milestrates and the state of th

LANDFILL PERMIT BOUNDARY

1/4 MILE RADIUS

(15)

PROPERTY OWNER DESIGNATION (SEE NOTES 1 AND 2)

NOTES:

- 1. (15) REFERS TO PROPERTY OWNERS LISTED ON ATTACHED PROPERTY OWNER LIST.
- PROPERTY OWNER LIST DEVELOPED FROM AUGUST 2022 CHEROKEE COUNTY APPRAISAL DISTRICT RECORDS FOR PROPERTIES LOCATED WITHIN A QUARTER MILE OF THE PERMIT BOUNDARY.



DRAFT X FOR PERMITTING PURPOSES ON ISSUED FOR CONSTRUCTION	LY	PI	NE HILL	PREPARED FOR FARMS LANDFILL TX, LP		MODIFICATION
DATE: 08/2022 FILE: 0120-76-11-91 CAD: PROPERTY OWNER.DWG	DRAWN BY: SRF DESIGN BY: JBP REVIEWED BY: RJS	NO.	DATE	REVISIONS DESCRIPTION	ADJACENT PROPERTY OWNER ROYAL OAKS LANDFILL CHEROKEE COUNTY, TEXAS WWW.WCGRP.COM FIGURE 5-	
Weaver Consult	-					

COPYRIGHT © 2022 WEAVER CONSULTANTS GROUP. ALL RIGHTS RESERVED.