# INDUSTRIAL WASTEWATER PERMIT MAJOR AMENDMENT APPLICATION

Permit No. WQ0003074000

Prepared For:

Schreiber Foods, Inc.

923 County Road 176

Stephenville, TX 76401



August 22, 2024

Conducted By:



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# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TCEQ Industrial Wastewater Permit Application

# **INDUSTRIAL ADMINISTRATIVE REPORT 1.0**

This report is required for all applications for TPDES permits and TLAPs. Contact the Applications Review and Processing Team at 512-239-4671 with any questions about completing this report

## Item 1. Application Information and Fees (Instructions, Page 26)

a.	Complete each field with the	e requested i		ablo	Kenalan arat Basawa Kalausa
	Applicant Name: Schreiber I		EPA ID No.: <u>TX00006</u>		
	Permit No.: <u>WQ0003074000</u>		ion Date: <u>6/25/2029</u>	0221	
b.	Check the box next to the ap  ⊠ Industrial Wastewater (was  □ Industrial Stormwater (sto	astewater and	l stormwater)		
c.	Check the box next to the ag	opropriate fa	cility status.		
	⊠ Active □	Inactive			
d.	Check the box next to the ap $\Box$ TPDES Permit $\boxtimes$	propriate pe TLAP	rmit type.		
e.	Check the box next to the ap $\square$ New	propriate ap	plication type.		
	$\square$ Renewal with changes		□ Renewal wi	thout changes	
	oxtimes Major amendment with re	enewal	□ Major amer	ndment without re	enewal
	$\square$ Minor amendment without	it renewal	☐ Minor mod	ification without	renewal
f.	If applying for an amendmender acres from 50 acres to 61 acres to 61 acres to 61 acres from 50 acres to 61 acres from 50 acres to 61 acres from 50 acres fro	res, increasin ending the oi ygen demand	ig the average daily fl ganic loading rate fr l (5-day) and amendir	low from 132,000	gallons per day to
g.	Application Fee				
	EPA Classification	New	Major Amend. (with or without renewal)	Renewal (with or without changes)	Minor Amend. / Minor Mod. (without renewal

EPA Classification	New	Major Amend. (with or without renewal)	Renewal (with or without changes)	Minor Amend. / Minor Mod. (without renewal)
Minor facility not subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	□ \$350	⊠ \$350	□ \$315	□ \$150
Minor facility subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	□ \$1,250	□ \$1,250	□ \$1,215	□ \$150
Major facility	N/A¹	□ \$2,050	□ \$2,015	\$450

<sup>&</sup>lt;sup>1</sup> All facilities are designated as minors until formally classified as a major by EPA. TCEQ-10411 (05/20/2022) Industrial Wastewater Application Administrative Report

Seg Exj	r TCEQ Use Only gment NumberCounty piration DateRegion rmit Number
h.	Payment Information  Mailed
	Check or money order No.: Click to enter text. Check or money order amt.: Click to enter text.
	Named printed on check or money order: <u>Click to enter text.</u> <b>Epay</b>
	Voucher number: <u>600355 &amp; 600356</u> Copy of voucher attachment: <u>Attachment A</u>
Ite	em 2. Applicant Information (Instructions, Pages 26)
a.	Customer Number, if applicant is an existing customer: <u>CN602630972</u>
	Note: Locate the customer number using the <u>TCEQ's Central Registry Customer Search</u> <sup>2</sup> .
b.	Legal name of the entity (applicant) applying for this permit: Schreiber Foods, Inc.
	<b>Note:</b> The owner of the facility must apply for the permit. The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.
C.	Name and title of the person signing the application. ( <b>Note:</b> The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)
	☑ Mr. ☐ Ms. First/Last Name: <u>Paul Batkins</u>
	Title: <u>Plant Manager</u> Credential: <u>Click to enter text.</u>
d.	Will the applicant have overall financial responsibility for the facility? $\  \  \  \  \  \  \  \  \  \  \  \  \ $
	Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner.
Ite	m 3. Co-applicant Information (Instructions, Page 27)
	Check this box if there is no co-applicant.; otherwise, complete the below questions.
a.	Legal name of the entity (co-applicant) applying for this permit: Click to enter text.
	<b>Note:</b> The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.
b.	Customer Number (if applicant is an existing customer): CNClick to enter text.
	Note: Locate the customer number using the TCEQ's Central Registry Customer Search.
C.	Name and title of the person signing the application. ( <b>Note:</b> The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)
	☐ Mr. ☐ Ms. First/Last Name: <u>Click to enter text.</u>
	Title: Click to enter text. Credential: Click to enter text.

 $<sup>^2\ \</sup>underline{https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch}$ 

d. Will the co-applicant have overall financial responsibility for the facility? □ Yes □ No Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner. Item 4. Core Data Form (Instructions, Pages 27) a. Complete one Core Data Form (TCEQ Form 10400) for each customer (applicant and coapplicant(s)) and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: B Item 5. Application Contact Information (Instructions, Page 27) Provide names of two individuals who can be contact for additional information about this application. Indicate if the individual can be contact about administrative or technical information, or both. a. 

Administrative Contact . 🛛 Technical Contact ☑ Mr. ☐ Ms. Full Name (First and Last): Paul Bytheway Title: Environmental Engineer Credential: Click to enter text. Organization Name: Schreiber Foods, Inc. Mailing Address: 400 N Washington Street City: Green Bay State: WI Zip Code: 54301 Phone No: <u>920/445-6109</u> Fax No: 920/445-2200 Email: Paul.Bytheway@schreiberfoods.com b. ⊠ Administrative Contact . ⊠ Technical Contact ☑ Mr. ☐ Ms. Full Name (First and Last): <u>Corey Mullin</u> Title: Consultant Credential: Click to enter text. Organization Name: Enviro-Ag Engineering Mailing Address: 9855 FM 847 City: Dublin State: TX Zip Code: 76446 Phone No: 254/485-3892 Fax No: 254/965-8000 Email: cmullin@enviroag.com Attachment: Click to enter text. Item 6. Permit Contact Information (Instructions, Pages 28) Provide two names of individuals that can be contacted throughout the permit term. a. ⊠ Mr. □ Ms. Full Name (First and Last): Paul Bytheway Title: Environmental Engineer Credential: Click to enter text. Organization Name: Schreiber Foods, Inc. Mailing Address: 400 N Washington Street City: Green Bay State: WI Zip Code: 54301 Phone No: 920/445-6109 Fax No: 920/445-2200 Email: Paul.Bytheway@schreiberfoods.com b. ⊠ Mr. □ Ms. Full Name (First and Last): Corey Mullin

Title: Consultant Credential: Click to enter text.

Organization Name: Enviro-Ag Engineering

Mailing Address: <u>9855 FM 847</u>

City: <u>Dublin</u>

State: TX Zip Code: 76446

Phone No: <u>254/485-3892</u>

Fax No: <u>254/965-8000</u>

Email: cmullin@enviroag.com

Attachment: Click to enter text,

### Item 7. Billing Contact Information (Instructions, Page 28)

The permittee is responsible for paying the annual fee. The annual fee will be assessed for permits in effect on September 1 of each year. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (form TCEQ-20029).

Provide the complete mailing address where the annual fee invoice should be mailed and the name and phone number of the permittee's representative responsible for payment of the invoice.

☑ Mr. ☐ Ms. Full Name (First and Last): Gary McCaffity

Title: Environmental Health & Safety Manager, Operations Credential: Click to enter text.

Organization Name: Schreiber Foods, Inc.

Mailing Address: 923 CR 176

City: Stephenville State: TX Zip Code: 76401

Phone No: 254/552-7717 Fax No: 254/552-7896

Gary.McCaffity@schreiberfoods.com

## Item 8. DMR/MER Contact Information (Instructions, Page 28)

Provide the name and mailing address of the person delegated to receive and submit DMRs or MERs. Note: DMR data must be submitted through the NetDMR system. An electronic reporting account can be established once the facility has obtained the permit number.

Email:

☑ Mr. □ Ms. Full Name (First and Last): Gary McCaffity

Title: Environmental Health & Safety Manager, Operations Credential: Click to enter text.

Organization Name: Schreiber Foods, Inc.

Mailing Address: 923 CR 176

City: Stephenville State: TX Zip Code: 76401

Phone No: 254/552-7717 Fax No: 254/552-7896 Email:

Gary.McCaffity@schreiberfoods.com

### Item 9. NOTICE INFORMATION (Instructions, Pages 28

a. marviduai rumisiimy me nonci	a.	Individual	<b>Publishing</b>	the	Notices
---------------------------------	----	------------	-------------------	-----	---------

Title: Consultant

☐ Mr. ☒ Ms. Full Name (First and Last): <u>Jourdan Mullin</u>

Credential: Click to enter text.

Organization Name: Enviro-Ag Engineering

Mailing Address: 9855 FM 847

City: Dublin State: TX Zip Code: 76446

Phone No: 806/679-5570 Fax No: 254/965-8000 Email: jmullin@enviroag.com

b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)

☑ E-mail: jmullin@enviroag.com

 $\square$  Fax: Click to enter text.

☑ Regular Mail (USPS)

Mailing Address: 9855 FM 847

City: Dublin State: TX Zip Code: 76446

C.	C	ontact in the Notice
	$\boxtimes$	Mr. □ Ms Full Name (First and Last): <u>Paul Bytheway</u>
	Ti	tle: Environmental Engineer Credential: Click to enter text.
	O	rganization Name: <u>Schreiber Foods, Inc.</u>
		none No: <u>920/455-6109</u> Fax No: <u>920/455-2200</u> Email: <u>nul.Bytheway@schreiberfoods.com</u>
d.	Pυ	ıblic Viewing Location Information
	Ne ea	ote: If the facility or outfall is located in more than one county, provide a public viewing place for .ch county.
	Pu Ex	ablic building name: <u>Erath County Courthouse</u> Location within the building: <u>Erath County Co</u>
	Ph	ysical Address of Building: 100 Washington St. Room 206
	Ci	ty: <u>Stephenville</u> County: <u>Erath</u>
e.	Bi	lingual Notice Requirements
	Th re	nis information is required for new, major amendment, and renewal applications. It is not quired for minor amendment or minor modification applications.
	ne	nis section of the application is only used to determine if alternative language notices will be reded. Complete instructions on publishing the alternative language notices will be in your public stice package.
	Ple th	ease call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain e following information to determine whether an alternative language notices are required.
	1.	Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?
		$oxtimes$ Yes $\Box$ No $\Box$ N/A (Minor amendment or modification)
		If no, publication of an alternative language notice is not required; skip to Item 8 (Regulated Entity and Permitted Site Information.)
	2.	Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?
		$oxtimes$ Yes $\Box$ No $\Box$ N/A (Minor amendment or modification)
	3.	Do the students at these schools attend a bilingual education program at another location?
		$\square$ Yes $\boxtimes$ No $\square$ N/A (Minor amendment or modification)
	4.	Would the school be required to provide a bilingual education program, but the school has waived out of this requirement under 19 TAC §89.1205(g)?
		$\square$ Yes $\boxtimes$ No $\square$ N/A (Minor amendment or modification)
	5.	If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish
$f_*$	Pla apj	in Language Summary Template - Complete the Plain Language Summary at the end of this plication.
Ite	em	10. Regulated Entity and Permitted Site Information (Instructions Pages 29-30)

a. TCEQ issued Regulated Entity Number (RN), if available: RN102780665

	Central Registry to determine the RN or to see if the larger site may already be registered as a Regulated Entity. If the site is found, provide the assigned RN.		
b.	Name of project or site (the name known by the community where located): Schreiber Foods		
C.			
	<b>Note:</b> If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or Williamson County, additional information concerning protection of the Edwards Aquifer may be required.		
d.	Owner of treatment facility:		
	$\square$ Mr. $\square$ Ms. Full Name (First and Last): Click to enter text.		
	or Organization Name: <u>Schreiber Foods, Inc.</u>		
	Mailing Address: 400 N. Washington Street		
	City: <u>Green Bay</u> State: <u>WI</u> Zip Code: <u>54301</u>		
	Phone No: 920/455-6109 Fax No: 920/455-2200 Email: Paul.Bytheway@schreiberfoods.com		
e.	Ownership of facility: $\square$ Public $\boxtimes$ Private $\square$ Both $\square$ Federal		
f.	Owner of land where treatment facility is or will be: Click to enter text.		
	$\square$ Mr. $\square$ Ms. Full Name (First and Last): Click to enter text.		
	or Organization Name: Schreiber Foods, Inc.		
	Mailing Address: 400 N. Washington Street		
	City: <u>Green Bay</u> State: <u>WI</u> Zip Code: <u>54301</u>		
	Phone No: 920/455-6109 Fax No: 920/455-2200 Email: Paul.Bytheway@schreiberfoods.com		
	<b>Note:</b> If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years (In some cases, a lease may not suffice - see instructions). Attachment: <u>Click to enter text.</u>		
g.	Owner of effluent TLAP disposal site (if applicable): Click to enter text.		
	$\square$ Mr. $\square$ Ms. Full Name (First and Last): Click to enter text.		
	or Organization Name: <u>Schreiber Foods, Inc.</u>		
	Mailing Address: 400 N. Washington Street		
	City: <u>Green Bay</u> State: <u>TX</u> Zip Code: <u>54301</u>		
	Phone No: 920/455-6109 Fax No: 920/455-2200 Email: Paul.Bytheway@schreiberfoods.com		
	<b>Note:</b> If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: <u>Click to enter text.</u>		
h.	Owner of sewage sludge disposal site (if applicable):		
	$\square$ Mr. $\square$ Ms. Full Name (First and Last): Click to enter text.		
	or Organization Name: Click to enter text.		
	Mailing Address: Click to enter text.		
	City: Click to enter text.		
	Phone No: <u>Click to enter text.</u> Fax No: <u>Click to enter text.</u> Email: <u>Click to enter text.</u> Q-10411 (05/20/2022) Industrial Wastewater Application Administrative Report Page of 21		

**Note:** If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: <u>Click to enter text.</u>

# Item 11. TDPES Discharge/TLAP Disposal Information (Instructions, Pages 31-32)

a.	Is the facility located on or does the treated effluent cross Native American Land?					
	□ Yes ⋈ No					
b.	Attach an original full size USGS Topographic Map (or an $8.5"\times11"$ reproduced portion for renewal or amendment applications) with all required information. Check the box next to each item below to confirm it has been included on the map.					
	oxtimes One-mile radius $oxtimes$ Three-miles downstream information					
	☐ Labeled point(s) of discharge ☐ Highlighted discharge route(s)					
	oxtimes Effluent disposal site boundaries	☐ All wastewater ponds				
	□ Sewage sludge disposal site	☐ New and future construction				
	Attachment: <u>C</u>					
c.	☐ Yes ☑ No or New Permit					
d	If no, or a new application, provide an accurate location description: $N/A$					
u.	l. Are the point(s) of discharge in the existing permit correct?  □ Yes ☑ No or New Permit					
	If no, or a new application, provide an accurate location description: $N/A$					
e.	Are the discharge route(s) in the existing permi	t correct?				
	☐ Yes ☐ No or New Permit					
_	If no, or a new permit, provide an accurate description of the discharge route: N/A					
f.	City nearest the outfall(s): <u>N/A</u>					
g.	County in which the outfalls(s) is/are located: $N/A$					
h.	Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch? $\Box$ Yes $\boxtimes$ No					
	If yes, indicate by a check mark if: $\square$ Authoriza	tion granted				
	For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: Click to enter text.					
	For all applications involving an average daily dall counties located within 100 statute miles do text.	ischarge of 5 MGD or more, provide the names of wnstream of the point(s) of discharge: <u>Click to enter</u>				
i.	For TLAPs, is the location of the effluent dispos	al site in the existing permit accurate?				
	⊠ Yes □ No or New Permit	<u> </u>				
If no, or a new application, provide an accurate location description: Click to enter text.						

	⊠ Yes □ No or New Permit
	If no, or a new application, provide an accurate location description: Click to enter text.
j.	City nearest the disposal site: <u>Stephenville</u>
k.	County in which the disposal site is located: <u>Erath</u>
l.	Disposal Site Latitude: 32D 16' 10" Longitude: 98D 11' 27"
m.	For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: Effluent from the treatment facility is pumped through an underground pipeline to the waste disposal areas.
n.	For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: <u>Unnamed tributary to the South Paluxy River.</u>
Ite	m 12. MISCELLANEOUS INFORMATION (Instructions, Page 33)
a.	Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application? $\Box$ Yes $\boxtimes$ No
	If yes, list each person: <u>Click to enter text.</u>
b.	Do you owe any fees to the TCEQ?  ☐ Yes ☒ No  .  If yes, provide the account no.: Click to enter text. and total amount due: Click to enter text.
c.	Do you owe any penalties to the TCEQ?  ☐ Yes ☒ No  If yes, provide the enforcement order no.: Click to enter text. and amount due: Click to enter text.

## Item 13. SIGNATURE PAGE (Instructions, Pages 33-34)

Permit No: WQ0003074000

Applicant Name: Schreiber Foods, Inc.

Certification: I, <u>Paul Batkins</u>, 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.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Paul Batkins

Signatory title: Plant Manager

Signature: (Use blue ink)		Date: 2/3/	23
Subscribed and Sworn to before me by the said	Paul	Bathins	
on this	day of _	rebrown/	,2023
My commission expires on the	day of	October	,2024
Notary Public County, Texas		ACOREY LYNN ID #12680 My Commissio October 08	N MULLIN 19838 On Evoires

Note: If co-applicants are necessary, each entity must submit an original, separate signature page.

# **INDUSTRIAL ADMINISTRATIVE REPORT 1.1**

The following information is required for new and amendment applications.

# Item 1. AFFECTED LANDOWNER INFORMATION (Instructions, Pages 35-36)

a.	Attach a landowner map or drawing, with scale, as applicable. Check the box next to each item to confirm it has been provided.
	☑ The applicant's property boundaries.
	oxtimes The facility site boundaries within the applicant's property boundaries.
	$\Box$ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone.
	☑ The property boundaries of all landowners surrounding the applicant's property. (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
	☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream.
	☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge.
	☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides.
	☑ The boundaries of the effluent disposal site (e.g., irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property.
	oxtimes The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located.
	☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners within one-quarter mile of the applicant's property boundaries where the sewage sludge land application site is located.
	☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (e.g., sludge surface disposal site or sludge monofil) is located.
	Attachment: <u>D</u>
ь.	Check the box next to the format of the landowners list:
	⊠ Readable/Writeable CD □ Four sets of labels
	Attachment: $\underline{D}$
d.	Provide the source of the landowners' names and mailing addresses: <u>Erath County Appraisal District</u>
Э.	As required by Texas Water Code $\S$ 5.115, is any permanent school fund land affected by this application?
	□ Yes ⋈ No
	If yes, provide the location and foreseeable impacts and effects this application has on the land(s): Click to enter text.

# Item 2. ORIGINAL PHOTOGRAPHS (Instructions, Page 37)

Provide original ground level photographs. Check the box next to each of the following items to indicate it is included.

□ At least one original photograph of the new or expanded treatment unit location.

□ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.

□ At least one photograph of the existing/proposed effluent disposal site.

□ A plot plan or map showing the location and direction of each photograph.

Attachment: E

# Plain Language Summary Forms

#### **Individual Industrial Wastewater Application**

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

Schreiber Foods, Inc (CN602630972) operates Schreiber Foods (RN102780665), a manufacturing/processing plant of cheese products. The facility is located at 923 County Road 176, near the city of Stephenville, Erath County, Texas 76401.

This application is for a major amendment with renewal to increasing the application acres from 50 acres to 61 acres, increasing the average daily flow from 132,000 gallons per day to 192,000 gallons per day, amending the organic loading rate from lbs./acre/year to lbs./acre/day measured as biochemical oxygen demand (5-day) and amending the nitrogen loading rate from lbs./acre/year to lbs./acre/year measured as total nitrogen.

Raw milk is brought to the plant in tankers. In the process of converting this milk into finished products (Cream Cheese) much of the water is extracted. This water, which is known by the industry as "cow water" is captured and used for cleaning purposes along with fresh water. This wash is then captured along with milk minerals, organics, and cleaning compounds and directed to the wastewater treatment facility. All domestic sewage is collected and treated by a chlorination system prior to being commingled with the process wastewater from the plant operations at the lift station.

Process water is collected and routed through monitoring stations which include a bar screen for solids removal and a dissolved air flotation tank for solids removal. Domestic wastewater is treated by a chlorination system prior to being commingled with process wastewater at the lift station. From the lift station, the commingled effluent is pumped to a storage/treatment system consisting of one 3-million-gallon aeration lagoon equipped with 200 hp. of aeration pump, two aeration lagoons (Aerated Storage Basin No. 1 & 2) both with 3 million gallons of storage capacity and 60 hp. of aeration equipment, and one 13.9-million-gallon storage lagoon. Effluent from the lagoons is routed to a center pivot irrigation system that includes a 61-acre tract for irrigation crops consisting of coastal Bermuda grass as a primary crop and ryegrass as a supplemental cool-weather crop.

Schreiber Foods, Inc (CN602630972) opera Schreiber Foods (RN102780665), una planta de fabricación/procesamiento de productos de queso. La instalación está ubicada en 923 County Road 176, cerca de la ciudad de Stephenville, Condado de Erath, Texas 76401.

Esta solicitud es para una modificación principal con renovación para aumentar los acres de aplicación de 50 acres a 61 acres, aumentar el flujo promedio diario de 132,000 galones por día a 192,000 galones por día, modificar la tasa de carga orgánica de lbs./acre/año a lbs./acre/día medida como demanda bioquímica de oxígeno (5 días) y modificando la tasa de carga de nitrógeno de lbs./acre/año a lbs./acre/año medida como nitrógeno total.

La leche cruda se lleva a la planta en camiones cisterna. En el proceso de convertir esta leche en productos terminados (Queso Crema) se extrae gran parte del agua. Esta agua, que la industria conoce como "agua de vaca", es captada y utilizada con fines de limpieza junto con el agua dulce. Luego, este lavado se captura junto con los minerales de la leche, los compuestos orgánicos y los compuestos de limpieza y se dirige a la planta de tratamiento de aguas residuales. Todas las aguas residuales domésticas son recolectadas y tratadas por un sistema de cloración antes de mezclarse con las aguas residuales del proceso de las operaciones de la planta en la estación de bombeo.

El agua de proceso se recolecta y se enruta a través de estaciones de monitoreo que incluyen una pantalla de barra para la eliminación de sólidos y un tanque de flotación de aire disuelto para la eliminación de sólidos. Las aguas residuales domésticas se tratan mediante un sistema de cloración antes de mezclarse con las aguas residuales del proceso en la estación de bombeo. Desde la estación de bombeo, el efluente mezclado se bombea a un sistema de almacenamiento/tratamiento que consta de una laguna de aireación de 3 millones de galones equipada con 200 hp. de bomba de aireación, dos lagunas de aireación (Cuenca de Almacenamiento Aireada No. 1 y 2) ambas con 3 millones de galones de capacidad de almacenamiento y 60 hp. de equipo de aireación y una laguna de almacenamiento de 13.9 millones de galones. El efluente de las lagunas se dirige a un sistema de riego de pivote central que incluye un tramo de 61 acres para cultivos de riego que consisten en pasto Bermuda costero como cultivo principal y raigrás como cultivo complementario de clima frío.

#### TECHNICAL REPORT 1.0 INDUSTRIAL

The following information **is required** for all applications for a TLAP or an individual TPDES discharge permit.

For additional information or clarification on the requested information, refer to the <u>Instructions for Completing the Industrial Wastewater Permit Application</u><sup>1</sup> available on the TCEQ website.

If more than one outfall is included in the application, provide applicable information for each individual outfall. **If an item does not apply to the facility, enter N/A** to indicate that the item has been considered. Include separate reports or additional sheets as **clearly cross-referenced attachments** and provide the attachment number in the space provided for the item the attachment addresses.

**NOTE:** This application is for an industrial wastewater permit only. Additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division may be needed.

# 1. FACILITY/SITE INFORMATION (Instructions, Pages 39-40)

a.	Describe the general nature of the business and type(s) of industrial and commercial activities. Include
	all applicable SIC codes (up to 4).

Schreiber Foods, Inc. is a specialty dairy food manufacturer, producing a variety of cheeses. Primary SIC Code = 2022, Secondary SIC Code = 2023, Primary NAICS Code = 311513, Secondary NAICS Code = 31514.

b. Describe all wastewater-generating processes at the facility.

Raw milk is brought to the plant in tankers. In the process of converting this milk into finished products (Cream Cheese) much of the water is extracted. This water, which is known by the industry as "cow water" is captured and used for cleaning purposes along with fresh water. This wash is then captured along with milk minerals, organics, and cleaning compounds and directed to the wastewater treatment facility.

All domestic sewage is collected and treated by a chlorination system prior to being commingled with the process wastewater from the plant operations at the lift station.

<sup>&</sup>lt;sup>1</sup> https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES industrial wastewater steps.html

c. Provide a list of raw materials, major intermediates, and final products handled at the facility.

#### **Materials List**

Raw Materials	Intermediate Products	Final Products
Raw Milk	Whey	Cream Cheese
Block Cheese		Chunk, Sliced and Shredded Cheese
- white		

	Attachment: Click to enter text.
d.	Attach a facility map (drawn to scale) with the following information:
	• Production areas, maintenance areas, materials-handling areas, waste-disposal areas, and water intake structures.
	<ul> <li>The location of each unit of the WWTP including the location of wastewater collection sumps, impoundments, outfalls, and sampling points, if significantly different from outfall locations.</li> </ul>
	Attachment: 1
e.	Is this a new permit application for an existing facility?
	□ Yes ⊠ No
	If yes, provide background discussion: Click to enter text.
f.	Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.
	⊠ Yes □ No
	List source(s) used to determine 100-year frequency flood plain: FEMA Flood Map ID: 480218008B
	If <b>no</b> , provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: Click to enter text.
	Attachment: 2
g.	For <b>new</b> or <b>major amendment</b> permit applications, will any construction operations result in a discharge of fill material into a water in the state?
	$\square$ Yes $\boxtimes$ No $\square$ N/A (renewal only)
h.	If <b>yes</b> to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?
	□ Yes □ No
	If yes, provide the permit number: Click to enter text.
	If no, provide an approximate date of application submittal to the USACE: Click to enter text.

# 2. TREATMENT SYSTEM (Instructions, Page 40)

a. List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.

Process water is collected and routed through monitoring stations which include a bar screen for solids removal and a dissolved air flotation tank for solids removal. Domestic wastewater is treated by a chlorination system prior to being commingled with process wastewater at the lift station. From the lift station, the commingled effluent is pumped to a storage/treatment system consisting of one 3 million gallon aeration lagoon equipped with 200 hp. of aeration pump, two aeration lagoons (Aerated Storage Basin No. 1 & 2) both with 3 million gallons of storage capacity and 60 hp. of aeration equipment, and one 13.9 million gallon storage lagoon. Effluent from the lagoons is routed to a center pivot irrigation system that includes a 61-acre tract for irrigation crops consisting of coastal Bermuda grass as a primary crop and ryegrass as a supplemental cool-weather crop.

b. Attach a flow schematic **with a water balance** showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

Attachment: 1

# 3. IMPOUNDMENTS (Instructions, Pages 40-42)

Does the facility use or plan to use any wastewater impoundments	(e.g.,	lagoons	or ponds?)
--	--------	---------	------------

⊠ Yes □ No

If **no**, proceed to Item 4. If **yes**, complete **Item 3.a** for **existing** impoundments and **Items 3.a - 3.e** for **new or proposed** impoundments. **NOTE:** See instructions, Pages 40-42, for additional information on the attachments required by Items 3.a - 3.e.

a. Complete the table with the following information for each existing, new, or proposed impoundment:

Use Designation: Indicate the use designation for each impoundment as Treatment (T), Disposal (D), Containment (C), or Evaporation (E).

Associated Outfall Number: Provide an outfall number if a discharge occurs or will occur.

**Liner Type:** Indicate the liner type as Compacted clay liner (**C**), In-situ clay liner (**I**), Synthetic/plastic/rubber liner (**S**), or Alternate liner (**A**). **NOTE:** See instructions for further detail on liner specifications. If an alternate liner (A) is selected, include an attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

**Leak Detection System:** If any leak detection systems are in place/planned, enter  $\mathbf{Y}$  for yes. Otherwise, enter  $\mathbf{N}$  for no.

**Groundwater Monitoring Wells and Data:** If groundwater monitoring wells are in place/planned, enter  $\mathbf{Y}$  for yes. Otherwise, enter  $\mathbf{N}$  for no. Attach any existing groundwater monitoring data.

**Dimensions:** Provide the dimensions, freeboard, surface area, storage capacity of the impoundments, and the maximum depth (not including freeboard). For impoundments with irregular shapes, submit surface area instead of length and width.

Compliance with 40 CFR Part 257, Subpart D: If the impoundment is required to be in compliance with 40 CFR Part 257, Subpart D, enter Y for yes. Otherwise, enter N for no.

Date of Construction: Enter the date construction of the impoundment commenced (mm/dd/yy).

#### **Impoundment Information**

Parameter	Pond #1	Pond #2	Pond #3	Pond #4
Use Designation: (T) (D) (C) or (E)	Т	Т	Т	T
Associated Outfall Number	001	001	001	001
Liner Type (C) (I) (S) or (A)	С	С	С	С
Alt. Liner Attachment Reference				
Leak Detection System, Y/N	N	N	N	N
Groundwater Monitoring Wells, Y/N	Y	Y	Y	Y
Groundwater Monitoring Data Attachment	Y	Y	Y	Y
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y	Y	Y
Length (ft)	355	340	340	576
Width (ft)	140	140	140	385
Max Depth From Water Surface (ft), Not Including Freeboard	10	10	10	13.3
Freeboard (ft)	2	2	2	2
Surface Area (acres)	1.14	1.09	1.09	4.68
Storage Capacity (gallons)	3,000,000	3,000,000	3,000,000	13,900,000
40 CFR Part 257, Subpart D, Y/N	No	No	No	No
Date of Construction				11/23/2020

#### Impoundment Information

Parameter	Pond #	Pond #	Pond #	Pond #
Use Designation: (T) (D) (C) or (E)				
Associated Outfall Number				
Liner Type (C) (I) (S) or (A)				
Alt. Liner Attachment Reference				
Leak Detection System, Y/N				
Groundwater Monitoring Wells, Y/N			100	
Groundwater Monitoring Data Attachment				
Pond Bottom Located Above The Seasonal High-Water Table, Y/N				
Length (ft)				
Width (ft)				
Max Depth From Water Surface (ft), not including freeboard				
Freeboard (ft)				
Surface Area (acres)				
Storage Capacity (gallons)				
40 CFR Part 257, Subpart D, Y/N				
Date of Construction				

### Attachment: 3

The following information (Items 3.b - 3.e) is required only for **new or proposed** impoundments. b. For new or proposed impoundments, attach any available information on the following items. If attached, check yes in the appropriate box. Otherwise, check no or not yet designed. Liner data Yes No Not yet designed ii. Leak detection system or groundwater monitoring data Yes No Not yet designed iii. Groundwater impacts Yes No Not yet designed NOTE: Item b.iii is required if the bottom of the pond is not above the seasonal high-water table in the shallowest water-bearing zone. Attachment: Click to enter test For TLAP applications: Items 3.c - 3.e are not required, continue to Item 4. c. Attach a USGS map or a color copy of original quality and scale which accurately locates and identifies all known water supply wells and monitor wells within 1/2-mile of the impoundments. Attachment: Click to enter level. d. Attach copies of State Water Well Reports (e.g., driller's logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description of how the depths to groundwater were obtained. Attachment: Click to concentest Attach information pertaining to the groundwater, soils, geology, pond liner, etc. used to assess the potential for migration of wastes from the impoundments or the potential for contamination of groundwater or surface water. Attachment: Click to anher texts **OUTFALL/DISPOSAL METHOD INFORMATION (Instructions,** 

# Pages 42-43)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge operations, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/or numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

For TLAP applications: Indicate the disposal method and each individual irrigation area I, evaporation pond E, or subsurface drainage system S by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal area in the space provided for Outfall number (e.g. E1 for evaporation pond 1, I2 for irrigation area No. 2, etc.).

### Outfall Latitude and Longitude

Latitude-decimal degrees	Longitude-decimal degrees
32°16'17.30"N	98°11'16.41"W
32°15′59.05″N	98°11'18.32"W
	32°16'17.30"N

#### **Outfall Location Description**

Outfall Number	Location Description
I1	Located north of Schreiber Foods plant and north of pond #4.
12	Located north of Schreiber Foods plant and south of pond #4

## Description of Sampling Points (if different from Outfall location)

Outfall	Description of	
Number	Description of Sampling Point	

## Outfall Flow Information - Permitted and Proposed

Outfall Number	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
I1 & I2	0.132	*	0.192	*	9/1/2023
	*No daily Max Flow				

# Outfall Discharge – Method and Measurement

Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
Y	N	Flow Meter
Y	N	Flow Meter
	<u> </u>	

#### Outfall Discharge – Flow Characteristics

Outfall Number	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
I1	Y	Y	Y	24	30	12
I2	Y	Y	Y	24	30	12

#### **Wastestream Contributions**

#### Outfall No.: T-1

Volume (MGD)	% of Total Flow
0.189800	98.85
0.0022	1.15
	112
	0.189800

#### Outfall No.: <u>C-2 & C-3</u>

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Aeration Basins	0.192	100

#### Outfall No.: S-4

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Storage	0.192	100

Attachment: Click to enter text.

# 5. BLOWDOWN AND ONCE-THROUGH COOLING WATER DISCHARGES (Instructions, Page 44)

	Does the facility use/propose to use any cooling towers which discharge blowdown or other wastestreams to the outfall(s)?						
	⊠ Yes □	No					
	<b>NOTE:</b> If the facili	ty uses or plans to use cooling	towers, Item 12 is require	ed.			
•	Does the facility us outfall(s)?	e or plan to use any boilers tha	t discharge blowdown or o	ther wastestreams to the			
	⊠ Yes □	No					
	Does or will the fac	ility discharge once-through c	ooling water to the outfall(s	s)?			
	□ Yes ⊠	No					
	<b>NOTE:</b> If the facili	ty uses or plans to use once-th	rough cooling water, Item	12 is required.			
	If <b>yes</b> to Items 5.a, additive.	5.b, <b>or</b> 5.c, attach the SDS wit	h the following information	n for each chemical			
	<ul> <li>Classify product</li> <li>Product or active</li> <li>Frequency of product toxicity</li> <li>Concentration of Attach a summary</li> </ul>	osition including CASRN for e t as non-persistent, persistent, re ingredient half-life roduct use (e.g., 2 hours/day of data specific to fish and aquatof of whole product or active ingreaf of this information in addition the associated chemical additive	or bioaccumulative  nce every two weeks)  tic invertebrate organisms edient, as appropriate, in w to the submittal of the SDS	for each specific			
	Cooling Towers and	l Boilers					
	If <b>yes</b> to either Iten	n 5.a <b>or</b> 5.b, complete the follo	wing table.				
	Cooling Towers an	d Boilers	<b>,</b>				
	Type of Unit	Number of Units	Dly Avg Blowdown (gallons/day)	Dly Max Blowdown (gallons/day)			
				(Sanons) aug)			
	Cooling Towers Boilers	4	3,000	5,200			

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in some manner which may result in exposure of the activities or materials to stormwater: Click to enter text.

Yes

 $\boxtimes$ 

No

# 7. DOMESTIC SEWAGE, SEWAGE SLUDGE, AND SEPTAGE MANAGEMENT AND DISPOSAL (Instructions, Page 45)

**Domestic Sewage** - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

a.	Check the box next to the appropriate method of domestic sewage and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.							
	☐ Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. <b>Complete Item 7.b</b> .							
	☐ Domestic sewage disposed of by an on-site septic tank and drai	nfield system. <b>Complete Item 7.b</b> .						
	☐ Domestic and industrial treatment sludge <b>ARE commingled</b>							
	☐ Industrial wastewater and domestic sewage are treated separat <b>commingled</b> prior to sludge use or disposal. <b>Complete Wor</b>	ely, and the respective sludge <b>IS NO</b> 7 • <b>ksheet 5.0</b> .						
	☐ Facility is a POTW. <b>Complete Worksheet 5.0</b> .							
	☐ Domestic sewage is not generated on-site.							
	☐ Other (e.g., portable toilets), specify and <b>Complete Item 7.b</b> :							
b.	Provide the name and TCEQ, NPDES, or TPDES Permit No. of the receives the domestic sewage/septage. If hauled by motorized veh Registration No. of the hauler.	e waste-disposal facility which icle, provide the name and TCEQ						
	Domestic Sewage Plant/Hauler Name							
	Plant/Hauler Name	Permit/Registration No.						
	Cowboy Septic	21102						
8.	REQUIREMENTS (Instructions, Page 45)							
<b>8.</b>	REQUIREMENTS (Instructions, Page 45)							
	REQUIREMENTS (Instructions, Page 45)  Is the permittee currently required to meet any implementation so							
a.	REQUIREMENTS (Instructions, Page 45)  Is the permittee currently required to meet any implementation so enforcement?  Yes No	chedule for compliance or						
a.	REQUIREMENTS (Instructions, Page 45)  Is the permittee currently required to meet any implementation so enforcement?	chedule for compliance or						
a. b.	REQUIREMENTS (Instructions, Page 45)  Is the permittee currently required to meet any implementation so enforcement?  Yes No  Has the permittee completed or planned for any improvements or	chedule for compliance or construction projects?						
a. b.	REQUIREMENTS (Instructions, Page 45)  Is the permittee currently required to meet any implementation so enforcement?  ☐ Yes ☐ No  Has the permittee completed or planned for any improvements or  ☐ Yes ☐ No  If yes to either 8.a or 8.b, provide a brief summary of the requirementary text.	chedule for compliance or construction projects?						
<ul><li>a.</li><li>b.</li><li>c.</li><li>Ha</li></ul>	REQUIREMENTS (Instructions, Page 45)  Is the permittee currently required to meet any implementation so enforcement?  ☐ Yes ☐ No  Has the permittee completed or planned for any improvements or  ☐ Yes ☐ No  If yes to either 8.a or 8.b, provide a brief summary of the required contentest.	construction projects?  ments and a status update: Click to						
<ul><li>a.</li><li>b.</li><li>c.</li><li>Ha</li></ul>	REQUIREMENTS (Instructions, Page 45)  Is the permittee currently required to meet any implementation so enforcement?  Yes No  Has the permittee completed or planned for any improvements or Yes No  If yes to either 8.a or 8.b, provide a brief summary of the requirementation of the content text.  TOXICITY TESTING (Instructions, Page 45) are any biological tests for acute or chronic toxicity been made on any biological tests for acute or chronic tests for acute or chronic tests for acute or chronic tests for	construction projects?  ments and a status update: Click to						
a. b. c. Ha	REQUIREMENTS (Instructions, Page 45)  Is the permittee currently required to meet any implementation so enforcement?  ☐ Yes ☑ No  Has the permittee completed or planned for any improvements or ☐ Yes ☑ No  If yes to either 8.a or 8.b, provide a brief summary of the requirementation text.  TOXICITY TESTING (Instructions, Page 45)  ave any biological tests for acute or chronic toxicity been made on arter in relation to the discharge within the last three years?	construction projects?  ments and a status update: Click to  ny of the discharges or on a receiving						
a. b. c. Hawa	REQUIREMENTS (Instructions, Page 45)  Is the permittee currently required to meet any implementation so enforcement?  Yes No  Has the permittee completed or planned for any improvements or Yes No  If yes to either 8.a or 8.b, provide a brief summary of the requirementation to the discharge within the last three years?  Yes No  No	construction projects?  ments and a status update: Click to  ny of the discharges or on a receiving						

Attachment: Click to enter texts

# 10. OFF-SITE/THIRD PARTY WASTES (Instructions, Page 45)

a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal or via land application, or discharge via a permitted outfall?							
		Yes	$\boxtimes$	No			
	If y	<b>es</b> , provid	le resp	oonses to Items 10.b through 10.d below.			
	_	If <b>no</b> , proceed to Item 11.					
b.	Atta	ach the fol	lowin	g information to the application:			
	•	Identify tl	ne sou	eceived (including volumes, characterization, a crees of wastes received (including the legal na the relationship of waste source(s) with the fac	me and addresses of the generators).		
				k in onjectors.	·		
c.	Is or facil	r will was lity's wast Yes	tewate	er from another TCEQ, NPDES, or TPDES per r after final treatment and prior to discharge v No	mitted facility commingled with this via the final outfall/point of disposal?		
	If <b>y</b> e	es, provid lity and a	e the copy o	name, address, and TCEQ, NPDES, or TPDES of any agreements or contracts relating to this	permit number of the contributing activity.		
				k to enter lext.			
d.	Is this facility a POTW that accepts/will accept process wastewater from any SIU and has/is required to have an approved pretreatment program under the NPDES/TPDES program?						
		Yes		No	-		
	If ye	es, Work	shee	t <b>6.0</b> of this application <b>is required</b> .			
11	R	ADIOA	CT	<b>IVE MATERIALS (Instructions,</b>	Pages 46)		
				e materials be mined, used, stored, or processe			
		Yes	$\boxtimes$	No			
	If <b>yes</b> , use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L.						
	Rad	ioactive N	Aater	ials Mined, Used, Stored, or Processed			
	Rac	dioactive	Mate	rial	Concentration (pCi/L)		

b.	m	Does the applicant or anyone at the facility have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property?							
		Yes 🖂	No						
	ma	yes, use the follow aterials that may b sponse to Item 11.	e present.	to provide the res Provide results i	sults of one analys n pCi/L. Do not in	is of the effluent fo clude information	or all radioactive provided in		
	Ra	dioactive Materi	als Preser	nt in the Dischar	ge				
	R	adioactive Mater	ial			Concentration (	pCi/L)		
	-								
	-	=							
	-								
12	. (	COOLING W	ATER (	(Instruction	s, Pages 46-	47)			
a.	Do	Does the facility use or propose to use water for cooling purposes?							
			No		O P P				
	Ifı	no, stop here. If ye	es, comple	ete Items 12.b thr	u 12.f.				
b.						. 110			
υ,		Cooling water is/will be obtained from a groundwater source (e.g., on-site well).  □ Yes □ No							
	_	Yes □ 1 Y <b>es</b> , stop here. If r		10					
		_		ue.					
c.	Со	oling Water Suppl	ier						
	i.	Provide the name	e of the ow	ner(s) and opera	tor(s) for the CWI	S that supplies or	will supply water		
		for cooling purpo	ses to the	facility.					
		CWIS ID	ntake Stru	icture(s) Owner	(s) and Operator	(s)			
		Owner							
		Operator							
	70		'11 1 1 .	1.0	11				
	ii.	0 -7		tained from a Pul	olic Water Supplie	r (PWS)			
		☐ Yes ☐	No	· l .l prizo p					
		test.	f <b>yes</b> , prov	vide the PWS Reg	gistration No. and	stop here: <u>PWS N</u>	<u>o.</u> Click to enter		
	111		urill bo ol-1	coin ad fueres		0			
	111.	Cooling water is/		amed from a rec	aimed water sour	ce?			
		☐ Yes ☐	No fwas prov	ddo th - D					
		ii iio, commue. I	ı yes, prov	vide ine Keuse Ai	itnorization No. ai	nd stop here:_Click	to enter text.		

NOTE: Item 13 is required only for existing permitted facilities.

# 13. PERMIT CHANGE REQUESTS (Instructions, Pages 49-50)

a.	Is the facility requesting a <b>major amendment</b> of an existing permit?
	⊠ Yes □ No
	If <b>yes</b> , list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.
	Increasing the application acres from 50 acres to 61 acres, increasing the average daily flow from 132,000 gallons per day to 192,000 gallons per day, amending the organic loading rate from lbs./acre/year to lbs./acre/day measured as biochemical oxygen demand (5-day) and amending the nitrogen loading rate from lbs./acre/year to lbs./acre/year measured as total nitrogen.
b.	Is the facility requesting any <b>minor amendments</b> to the permit?
	□ Yes ⊠ No
	If yes, list and discuss the requested changes.
	Click to enter text.
c.	Is the facility requesting any <b>minor modifications</b> to the permit?
	□ Yes ⊠ No
	If <b>yes</b> , list and discuss the requested changes.
	Click to enter text.

c.

#### WORKSHEET 3.0 LAND APPLICATION OF EFFLUENT

This worksheet is required for all applications for a permit to dispose of wastewater by land application.

# 1. TYPE OF DISPOSAL SYSTEM (Instructions, Page 70)

Chec	ek the box next to the type of land disposal requested	d by th	nis application:
$\boxtimes$	Irrigation		Subsurface application
	Evaporation		Subsurface soils absorption
	Evapotranspiration beds		Surface application
	Drip irrigation system		Other, specify: Click to enter text.
2.	LAND APPLICATION AREA (Instr	ucti	ons, Page 70)

#### **Land Application Area Information**

Effluent Application (gallons/day)	Irrigation Acreage (acres)	Describe land use & indicate type(s) of crop(s)	Public Access? (Y/N)
192,000	61	Coastal Bermudagrass is the primary crop and ryegrass as the cool weather crop.	N
192,000	61	Soybean Hay is the primary crop, and the small grains is the cool weather crop	N
192,000	61	Forage Sorghum is the primary crop, and the small grains is the cool weather crop	N

#### 3. ANNUAL CROPPING PLAN (Instructions, Page 70)

Attach the required cropping plan that includes each of the following:

- Cool and warm season plant species
- Breakdown of acreage and percent of total acreage for each crop
- Crop growing season
- Harvesting method/number of harvests
- Minimum/maximum harvest height
- Crop yield goals
- Soils map
- Nitrogen requirements per crop
- Additional fertilizer requirements

Attachment: 5

# 4. WELL AND MAP INFORMATION (Instructions, Page 71)

- a. Check each box to confirm the required information is shown and labeled on the attached USGS map:
  The exact boundaries of the land application area
  On-site buildings
  - Waste-disposal or treatment facilities
  - oxdittimes Effluent storage and tailwater control facilities
  - Buffer zones
  - $oxed{\boxtimes}$  All surface waters in the state onsite and within 500 feet of the property boundaries
  - ☐ All water wells within 1/2-mile of the disposal site, wastewater ponds, or property boundaries
  - $\square$  All springs and seeps onsite and within 500 feet of the property boundaries

#### Attachment: 6

b. List and cross reference all water wells located on or within 500 feet of the disposal site, wastewater ponds, or property boundaries in the following table. Attach additional pages as necessary to include all of the wells.

#### Well and Map Information Table

Well ID	Well ID Well Use		Open, cased, capped, or plugged?	Proposed Best Management Practice
2 (State Well #3147802) Public		Y	Cased	500-ft Buffer
4 (District ID #27625)	Domestic	Y	Cased	500-ft Buffer
7 (Plugging Report #28143)	Domestic	N	Plugged	N/A
8 (State Well #605326)	Public	Y	Cased	500-ft Buffer
14 (State Well #598116)	Domestic	Y	Cased	500-ft Buffer
17 (State Well #598115)	Domestic	Y	Cased	500-ft Buffer
21 (District ID #6371)	I Domostro I V		Cased	500-ft Buffer
35 (District ID #125643)	Public	Y	Cased	500-ft Buffer

#### Attachment: 6

c.	Groundwater monitoring wells or lysimeters are/will be installed around the land application site or wastewater ponds.						
	$\boxtimes$	Yes		No			
	If <b>yes</b> , provide the existing/proposed location of the monitoring wells or lysimeters on the site map attached for Item 4.a. Additionally, attach information on the depth of the wells or lysimeters, sampling schedule, and monitoring parameters for TCEQ review, possible modification, and approval.  Attachment: 6						

d. Attach a short groundwater technical report using 30 TAC § 309.20(a)(4) as guidance.

Attachment: 6

## 5. SOIL MAP AND SOIL INFORMATION (Instructions, Page 72)

Check each box to confirm that the following information is attached:

- a.  $\square$  USDA NRCS Soil Survey Map depicting the area to be used for land application with the locations identified by fields and crops
- b. 

  Breakdown of acreage and percent of total acreage for each soil type
- c. 🛛 Copies of laboratory soil analyses

**Attachment:** 7

# 6. LABORATORY ACCREDITATION CERTIFICATION (Instructions, Page 73)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification with the following general exemptions:

- a. The laboratory is an in-house laboratory and is:
  - i. periodically inspected by the TCEQ; or
  - ii. located in another state and is accredited or inspected by that state; or
  - iii. performing work for another company with a unit located in the same site; or
  - iv. performing pro bono work for a governmental agency or charitable organization.
- b. The laboratory is accredited under federal law.
- c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review 30 TAC Chapter 25 for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 32, for a list of approved signatories.

I, thek to enter text, certify that all laboratory tests submitted with this application meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

Pol B.M

(Signature)

# 7. EFFLUENT MONITORING DATA (Instructions, Page 73)

Completion of Table 14 is required for all renewal and major amendment applications. Complete the table with monitoring data for the previous two years for all parameters regulated in the current permit. An additional table has been provided with blank headers for parameters regulated in the current permit which are not listed in Table 14.

Table 14 for Site No.: 1

Samples are (check one):  $\Box$  Composites  $\boxtimes$  Grabs

Composites & Grabs									
Date (mo/yr)	Daily Avg Flow (gpd)	BOD <sub>5</sub> (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)		
August 2022	106,500	21.1	N/A	26.2	N/A	50	5.76		
July 2022	105,077	31.7	N/A	34.4	N/A	50	7.22		
June 2022	106,607	33.6	N/A	38.1	N/A	50	8.80		
May 2022	100,872	25.6	N/A	29.4	N/A	50	1.63		
April 2022	99,889	45.1	134	20.2	N/A	50	8.84		
March 2022	96,694	48.2	N/A	24.2	N/A	50	9.18		
February 2022	94,359	49.7	N/A	12.9	N/A	50	4.79		
January 2022	98,726	43.6	N/A	14.8	N/A	50	8.45		
December 2021	96,242	41.3	N/A	13.6	N/A	50	7.21		
November 2021	94,233	33.2	N/A	16.1	N/A	50	8.55		
October 2021	86,655	33.3	N/A	24.8	N/A	50	5.17		
September 2021	102,274	32.2	63.9	33.9	N/A	50	17.94		
August 2021	101,472	34.7	N/A	34.3	N/A	50	6.08		
July 2021	94,852	29.8	N/A	28.4	N/A	50	6.43		
June 2021	88,043	23.8	N/A	28.6	N/A	50	6.82		
May 2021	80,248	42.1	N/A	15.7	N/A	50	5.30		
April 2021	81,008	42.2	51.8	14.4	N/A	50	7.90		
March 2021	65,222	34.4	N/A	15.7	N/A	50	10.81		
February 2021	100,240	32.6	N/A	15.3	N/A	50	1.51		
January 2021	98,285	34.3	N/A	16.2	N/A	50	3.93		
December 2020	86,615	39.8	N/A	16.4	N/A	50	2.83		
November 2020	87,682	18.3	N/A	10.5	N/A	50	0.76		

Date (mo/yr)	Daily Avg Flow (gpd)	BOD <sub>5</sub> (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)
October 2020	83,504	20.5	117	13.2	N/A	50	4.61
September 2020	83,955	22.9	N/A	32.7	N/A	50	7.89
August 2020	83,040	17.8	N/A	13.8	N/A	50	6.68

Attach an explanation of all persistent excursions to permitted parameters and corrective actions taken.

Attachment: Click to carter texts.

Use this table to provide effluent analysis for parameters regulated in the current permit which are not listed in Table 14.

## Additional Parameter Effluent Analysis

Date (mo/yr)	Chloride (mg/L)	Sodium (mg/L)	Total Phosphorus (mg/L)	TDS (mg/L)	Oil & Grease (mg/L)	pH (SU)	
August 2022	N/A	N/A	N/A	N/A	0.0	8.20	
July 2022	N/A	N/A	N/A	N/A	0.0	8.2	
June 2022	N/A	N/A	N/A	N/A	5.7	8.3	
May 2022	N/A	N/A	N/A	N/A	0.0	8.28	
April 2022	999	813	15.2	2910	6.9	8.24	
March 2022	N/A	N/A	N/A	N/A	7.1	8.39	
February 2022	N/A	N/A	N/A	N/A	0,0	8.38	
January 2022	N/A	N/A	N/A	N/A	1.3	8.38	
December 2021	N/A	N/A	N/A	N/A	3.2	8.08	
November 2021	N/A	N/A	N/A	N/A	0.0	8.49	
October 2021	N/A	N/A	N/A	N/A	0.0	N/A	
September 2021	1500	949	4.9	3,500	0.0	8.46	
August 2021	N/A	N/A	N/A	N/A	0.0	8.29	*3
July 2021	N/A	N/A	N/A	N/A	0.0	8.37	
June 2021	N/A	N/A	N/A	N/A	0.0	8.24	
May 2021	N/A	N/A	N/A	N/A	0.0	8.28	
April 2021	N/A	842	1.3	2,540	0.0	8.44	
March 2021	N/A	N/A	N/A	N/A	0.0	8.50	
February 2021	N/A	N/A	N/A	N/A	0.0	8.64	
January 2021	N/A	N/A	N/A	N/A	1.68	8.64	
December 2020	N/A	N/A	N/A	N/A	0.0	8.62	
November 2020	N/A	N/A	N/A	N/A	0.0	8.57	
October 2020	N/A	968	3.8	2,480	0.0	8.16	
September 2020	N/A	N/A	N/A	N/A	0.0	8.16	
August 2020	N/A	N/A	N/A	N/A	0.0	8.21	

Attach an explanation of all persistent excursions to permitted parameters and corrective actions taken.

Attachment: Click to enter text.

## 8. POLLUTANT ANALYSIS (Instructions, Page 73)

- a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 10/27/2022, 11/2/2022, 12/1/2022, 12/6/2022
- Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.
- c. Completion of Tables 15 and 16 is required for all applications for the authorization of land application.

Table 15 for Site	No.: 1; Samples are	(check one)
Table 15 lot Site	No.: 1. Sambles are	tcneck one i:

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	ND	31.6	31	25.6
CBOD (5-day)	ND	26.1	46.6	65.1
Chemical oxygen demand	140	669	672	713
Total organic carbon	52.5	67.2	117	64.9
Ammonia nitrogen	3.73	3.29	8.02	5.05
Total suspended solids	730	1280	750	753
Nitrate nitrogen	ND	1.94	0.587	0.578
Total organic nitrogen	9.57	26.4	8.38	7.85
Total phosphorus	10.4	9.61	12.1	12,0
Oil and grease	7.4	10.1	11.2	6,02
Total residual chlorine	0.921	0.930	ND	0.823
Total dissolved solids	4020	3810	3780	3000
Sulfate	191	181	131	123
Chloride	1280	1320	1050	1050
Fluoride	ND	ND	ND	ND
Fecal Coliform (cfu/100 mL)	1900	800	300	500
Specific conductance (mmhos/cm)	5410	5560	5080	4950
pH (standard units; min/max)	8.68	9.04	8.52	8.4
Soluble sodium	1110	1000	980	1020
Soluble calcium	63.6	55.4	59.3	61.9
Soluble magnesium	42.9	37.5	37-9	38.3
SAR (unitless)	22.6	23.4	20.2	21.6

Table 16: for Site No.: 1: Samples are (check one):

Dollarts t	10 1 ( 5			Composites 🗵	Grabs
Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	3.80	4.18	4.03	4.31	2,5
Antimony, total	ND	ND	ND	ND	5
Arsenic, total	ND	ND	ND	ND	0.5
Barium, total	0.0775	0.0785	0.0847	0.0835	3
Beryllium, total	ND	ND	ND	ND	0.5
Boron, total	ND	ND	ND	ND	20
Cadmium, total	ND	ND	ND	ND	1
Chromium, total	ND	ND	ND	ND	3

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (μg/L)
Chromium, hexavalent	ND	ND	ND	ND ND	3
Chromium, trivalent	ND	0.00350	ND	ND	N/A
Copper, total	ND	ND	ND	ND	2
Cyanide	ND	ND	ND	ND	2/10
Lead, total	ND	ND	ND	ND	0.5
Mercury, total	ND	ND	ND	ND	0.005/0.0005
Nickel, total	ND	ND	0.0146	0.0115	2
Selenium, total	ND	ND	ND	ND	5
Silver, total	ND	ND	ND	ND	0.5
Thallium, total	ND	ND	ND	ND	0.5
Zinc, total	0.117	0.119	0.173	0.154	5.0

#### WORKSHEET 3.1 SURFACE LAND APPLICATION AND EVAPORATION

This worksheet **is required** for all applications for a permit to dispose of wastewater by surface land application or evaporation.

## 1. EDWARDS AQUIFER (Instructions, Page 74)

a. Is the facility subject to 30 TAC Chapter 213, Edwards Aquifer Rules?

		Yes	$\boxtimes$	No
	If no	, proceed	to Ite	em 2. If <b>yes</b> , complete Items 1.b <b>and</b> 1.c.
b.	Chec	k the box	next	to the subchapter applicable to the facility.
			_	er 213, Subchapter A er 213, Subchapter B
c.	If 30	<i>TAC Cha</i> rdance wi	pter 2 th 30	213, Subchapter A applies, attach <b>either</b> : 1) a Geologic Assessment (if conducted in $TAC \S 213.5$ ) <b>or</b> 2) a report that contains the following information:
	• A	descripti vastewate:	ion of r pond	the surface geological units within the proposed land application site and darea.

- The location and extent of any sensitive recharge features in the land application site and wastewater pond area
- A list of any proposed BMPs to protect the recharge features.

Attachment: Click to enter text.

## 2. SURFACE SPRAY/IRRIGATION (Instructions, Pages 74-75)

a. Provide the following information on the irrigation operations:

Area under irrigation (acres): 61

Design application rate (acre-ft/acre/yr): 3.53

Design application frequency (hours/day): 24

Design application frequency (days/week):  $\upbeta$ 

Design total nitrogen loading rate (lbs nitrogen/acre/year): 340

Average slope of the application area (percent): 2.1

Maximum slope of the application area (percent): 3.0

Irrigation efficiency (percent):  $\underline{85}$ 

Effluent conductivity (mmhos/cm): 5410

Soil conductivity (mmhos/cm): see attachment 7

Curve number: 71

Describe the application method and equipment: Center Pivot Systems

b. Attach a detailed engineering report which includes a water balance, storage volume calculations, and a nitrogen balance.

Attachment: 9

# 3. EVAPORATION PONDS (Instructions, Page 75)

- a. Daily average effluent flow into ponds:  $\underline{N/A}$  gallons per day
- b. Attach a separate engineering report of evaporation calculations for average long-term and worst-case critical conditions.

Attachment: Click to enter text.

# 4. EVAPOTRANSPIRATION BEDS (Instructions, Page 75)

a. Provide the following information on the evapotranspiration beds:

Number of beds: N/A

Area of bed(s) (acres): Click to enter test.

Depth of bed(s) (feet): Chick to enter test.

Void ratio of soil in the beds: Click to enter text.

Storage volume within the beds (include units): Click to enter texts

Description of any lining to protect groundwater: Click to enter heat.

b. Attach a certification by a licensed Texas professional engineer that the liner meets TCEQ requirements.

Attachment: Click to enter text.

c. Attach a separate engineering report with water balance, storage volume calculations, and description of the liner.

Attachment: Click to enter texts

## 5. OVERLAND FLOW (Instructions, Page 75)

a. Provide the following information on the overland flow:

Area used for application (acres): N/A

Slopes for application area (percent): Click to enter text

Design application rate (gpm/foot of slope width): Click to Universal.

Slope length (feet): Click to enter test

Design  $BOD_5$  loading rate (lbs  $BOD_5$ /acre/day): Click to enter text

Design application frequency (hours/day): Click to enter text

Design application frequency (days/week): Click to enter text

b. Attach a separate engineering report with the method of application and design requirements according to 30 TAC  $\S$  217.212.

Attachment: Click to enter text.

# ATTACHMENT A - APPLICATION FEE

Shopping Cart

Select Fee

Search Transactions

Sign Out

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

#### Transaction Information -

Trace Number: 582EA000512353

Date: 11/07/2022 12:28 PM

Payment Method: CC - Authorization 000005031G

**ePay Actor:** COREY MULLIN **Actor Email:** cmullin@enviroag.com

**IP:** 108.161,11.143

TCEQ Amount: \$350.00 Texas.gov Price: \$358.13\*

\* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

#### Payment Contact Information

Name: COREY MULLIN

Company: ENVIRO-AG ENGINEERING
Address: 9855 FM 847, DUBLIN, TX 76446

Phone: 254-485-3892

#### Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
600355	WW PERMIT - MINOR FACILITY NOT SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT		\$300.00
600356	30 TAC 305.53B WQ NOTIFICATION FEE	TCEQ Amount:	\$50.00 \$350.00
		TOLO AMOUNT:	\$220.00

ePay Again Exit ePay

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

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# ATTACHMENT B - CORE DATA FORM

TCEQ Use Only



# **TCEQ Core Data Form**

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION	I: Gene	ral Inforn	nation	i oi iilis	ioiii, p	lease	reau	uie coi	e Dala	FORM INSTRUCTIONS	or call 512-	-239-5175.
		on (If other is c										
☐ New Pe	rmit, Registr	ation or Authori	zation (Core	Data Fo	rm shou	uld be	e subn	nitted w	ith the	program applicatio	on.)	
Renewa	al (Core Data	Form should b	e submitted v	vith the	renewai	l forn	7)	$\boxtimes$ (	Other	Major Ame Renewal	endment	with Permit
2. Custome	r Reference	Number (if iss	ued)	Follow	this link	to se	arch	3. Reg	gulate	d Entity Reference	e Number	(if issued)
CN 6026	530972				or RN n			RN	1027	780665		<i>"</i>
SECTION	II: Cus	tomer Info	rmation									
4. General C	ustomer Inf	ormation	5. Effective	Date f	or Cust	tome	r Infor	mation	Upda	tes (mm/dd/yyyy)	01/11	/2023
☐ New Cus		0.4.10.14			to Custo					☐ Change in	Regulated	Entity Ownership
										f Public Accounts)		
Tayan Can	mer Name	Submitted	nere may i	be upo	dated a	auto	mati	cally b	asea	on what is cu	rrent and	active with the
		State (SOS)					ublic	Acco	unts	(CPA).		
6. Customer	Legal Name	e (If an individual	, print last nam	e first; eg	g: Doe, J	lohn)		<u>If</u>	new Cu	istomer, enter prev	ious Custom	er below:
Schreiber	Foods, In	ic.										
7. TX SOS/C	PA Filing N	umber	8. TX State	Tax ID	(11 digits)	)		9.	Feder	al Tax ID (9 digits)	10. DUN	S Number (if applicable)
00051477	06		3000582	5481								,
11. Type of 0	Customer:		on		☐ In	ndivid	lual		Pa	rtnership: 🗌 Gene	ral 🔲 Limited	
Government:	☐ City ☐ Co	unty 🔲 Federal 🗀	State 🗌 Other	r	│□s	ole P	roprie	torship		Other:		
<b>12. Number</b> © 0-20	of Employee ] 21-100	es 101-250	251-500	$\boxtimes$	501 and	d high	ier		Inde Yes	pendently Owned	and Opera	ated?
14. Custome	r Role (Prop	osed or Actual) –	as it relates to	the Reg	ulated E	ntity li	isted or	this for	m. Plea	se check one of the	following	
Owner		☐ Operat			⊠ Owi	ner &	Opera	ator				
Occupatio	nal Licensee	Respo	nsible Party		☐ Volu	untar	y Clea	nup Ap <sub>l</sub>	plicant	Other:		
4E Maillion	P.O. Bo	x 19010										
15. Mailing Address:		11										
	City	Green Bay		St	ate	WI		ZIP	543	07	ZIP + 4	9010
16. Country I	Mailing Info	rmation (if outsid	le USA)				17. E	-Mail A	ddres	S (if applicable)		
. Al												
18. Telephon	e Number			19. Ex	tension	or (	Code			20. Fax Numbe	r (if applica	ble)
( 920 ) 45	5-6109									( 920 ) 455	-2200	
SECTION	III: Reg	ulated En	tity Infor	rmati	<u>on</u>					<u> </u>		
21. General F	Regulated E	ntity Information	on (If 'New Re	egulated	d Entity"	is se	electea	below	this for	m should be acco	mpanied by	a permit application)
New Regu	lated Entity	Update t	to Regulated	Entity N	ame		Jpdate	to Reg	julated	Entity Information		
The Regulation of organization	ated Entity ational en	/ Name subi dings such a	mitted may as Inc. LP.	be up or LL(	odated C).	l in c	order	to me	et TO	EQ Agency D	ata Stand	lards (removal
		ne (Enter name d				ction	is takin	g place.)				

Schreiber Foo	ds								7.		
23. Street Addres	s of 9	23 CR	176								
the Regulated En	the Regulated Entity: (No PO Boxes)										
City		ity	Stepheny	ille	State	TX	ZIP	764	401	ZIP + 4	
24. County	Е	rath						1,0	101	<u> </u>	
		Е	nter Physical	Locat	tion Descrip	tion if no st	treet addr	ess is pr	ovided.		
25. Description to Physical Location			V-1								
26. Nearest City								State	<u> </u>	No	arest ZIP Code
Stephenville								TX			401
27. Latitude (N) In	Decimal:					28.	Longitud		Decimal:	1 70	101
Degrees	Mir	nutes		Secor	nds	Degr			Minutes	1	Seconds
32			15		46.07		98			11	18.21
29. Primary SIC Co	ode (4 digits	30.	Secondary SI	C Coc	le (4 digits)	31. Prima (5 or 6 digi	ary NAICS	Code	32. S	econdary NA	ICS Code
2022		202	23			311513			315		
33. What is the Pri				(Do n	ot repeat the SIG	C or NAICS des	scription.)		10.0		
Manufacture/P	rocessir	ng of C	Cheese Proc	lucts							
						92	23 CR 176				
34. Mailing											
Address:		City	Stephenvi	اماا	State	TV	710				
35. E-Mail Add		Oity	Otebuena	ile		TX	ZIP		76401	ZIP + 4	
	elephone I	Number			37. Extensi	aul.Bythew					N 12
	20 ) 455-6				Jr. Extensi	on or Code				mber (if appli	cable)
9. TCEQ Programs a	ınd ID Nu	nbers C	heck all Program	ns and	write in the pe	rmits/registra	ition numbe	ers that wil	be affected	0) 455-2200 by the updates	submitted on this
☐ Dam Safety	. Ollin illott d	Districts	additional guide		Edwards Aqu		,	sions Inve			
					- Camarao / Iqu	IIIO	L CIIIIS	SIUNS INVE	entory Air	Industrial	Hazardous Waste
☐ Municipal Solid Was	ste 🗀	New So	urce Review Air		OSSF		☐ Petro	oleum Stor	age Tank	☐ PWS	
								0.01	9- 1 Silli		
Sludge		Storm V	Vater		Title V Air		Tires			Used Oil	
☐ Voluntary Cleanup		Waste V	Vater		Wastewater A	Agriculture	☐ Wate	r Rights		Other:	
1.4	W	Q00030	074000					3.50		LJ Outer.	
ECTION IV:	Prepar	er In	formation	1							
0. Name: Corey M				-		41. Title:	Con	sultant			
12. Telephone Numb	er 43. E	xt./Code	44. Fa	x Nun	nber	45 F-M:	ail Addres	· ·			
(254) 485-3892					5-8000		n@env		om		
ECTION V:	Author	ized S	Signature			-1	~	0.5			
By my signature begnature authority to suentified in field 39.	elow. I cer	tify, to tl	ne best of my k	nowle	edge, that the pecified in So	information ection II, Fig	provided eld 6 and/o	in this fo or as requ	rm is true a	and complete, a updates to the	and that I have ID numbers
Company: S	chreiber F	oods, In	C.			Job Title	Plan	it Manage	or		
						1 2 2 1 12 10	. I lai	it manage	J.		

00047

Name (In Print):	Paul Batkins	Phone:	(254) 552-7717
Signature:	2-1 Botton	Date:	2/3/23

# ATTACHMENT C - 7.5-MINUTE USGS MAPS

C.1 Stephenville and Knob Hill, Texas Quadrangles
The 7.5-minute quadrangle maps show the plant site, irrigation sites and a 1-mile radius,

## ATTACHMENT D - ADJACENT LANDOWNERS

#### D.1 Adjacent Landowners List

Table D.1 lists the adjacent landowners names and addresses corresponding to the map in Figure D.1.

## D.2 Adjacent Landowners Map

Figure D.1, Adjacent Landowners Map, shows the properties adjacent to the facility property boundary, as obtained from the Erath County Appraisal District (CAD).

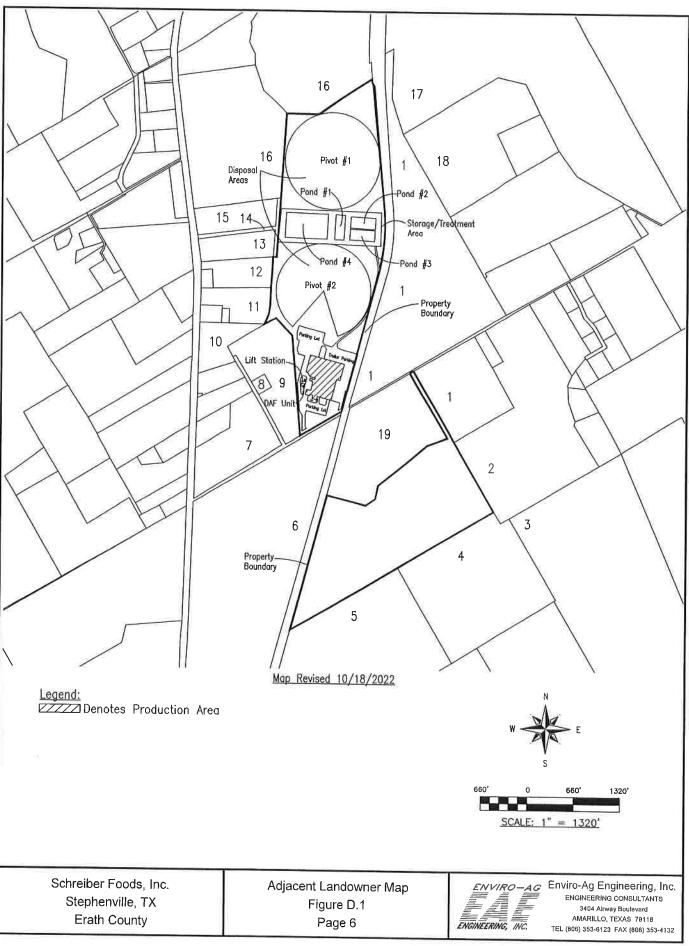
#### TABLE D.1 ADJACENT LANDOWNERS LIST

Name: Nell Gordon Properties LLC, Marcia Series Number on Map 1	Name: <u>Jacob &amp; Kayla Vanden Berge</u> Number on Map <u>2</u>
Address: Marcia Lynn Griffin	Address: 00.45 CP 455
Address: 114 Byron Nelson St.	Address: 2345 CR 177 Address: Stephenville, TX 76401
Address: Stephenville, TX 76401	Address. <u>Stephenville, 1X 76401</u>
Name <u>Jack E &amp; Ellen Vanden Berge</u>	Name: Rose Tina Reese
Number on Map 3	Number on Map 4
Address: 404 Morgan Mill Rd	Address: 9600 Divot Dr.
Address: Stephenville, TX 76401	Address: Granbury, TX 76049
Name: <u>Curtis Bolling Allen Trust &amp; Richard Bolling</u> Number on Map 5	Name: Board of Regents of the TX A&M
Address: Gary Bolling Trustee	University System
Address: 1530 Bates	Number on Map 6
Address: Stephenville, TX 76401	Address ATTN: System Real Estate
radices. Stephenville, 17 76401	Address 301 Tarrow Street 6th Floor
	Address College Station, TX 77840-7896
Name: Bachus Brothers Trust	Name: Brazos Electric Power Coop Inc.
Number on Map Z Address: PO Box 552	Number on Map 8
Address: Stephenville, TX 76401	Address: PO Box 2585
Address. Stephenville, 1X 76401	Address: Waco, TX 76702-2585
Name: Top Dog Realty, LLC	Name: Zeb R & Sharon M Cummins
Number on Map 9	Number on Map 10
Address: PO Box 590	Address: 176 Brock Springs Ln.
Address: Cabool, MO 65689	Address: Weatherford, TX 76087-4073
Name: Poukhovski Dmitri & Angelique Denneman	Name: Rodney W Rutledge
Number on Map 11	Number on Map 12
Address: 4250 N US Hwy 281	Address: 4324 N US Hwy 281
Address: Stephenville, TX 76401-9272	Address: Stephenville, TX 76401-9786
Name: Sowle Tyler & Kaitlin Sowle	Name: Collier & Son Inc
Number on Map 13	Number on Map <u>14</u>
Address: 4552 N US Hwy 281	Address: 2240 Overhill Rd.
Address: Stephenville, TX 76401	Address: Stephenville, TX 76401
Name: Manuel & Tandi Remy	Name: Lawrence Dean & Gloria Taylor
Number on Map 15	Number on Map 16
Address: 4630 N US Hwy 281	Address: PO Box 137
Address: Stephenville, TX 76401	Address: Stephenville, TX 76401-0000
Name: <u>Frazier Paradox Ranch, LLC</u> Number on Map <u>1</u> 7	Name: John R & Sharon A Nicholson
Number on Map <u>17</u> Address: 34 <u>93 CR 176</u>	Number on Map 18
Address Stanbanvilla TV -	Address: 1509 Southwood Blvd
Address: Stephenville, TX 76401	Address: Arlington, TX 76013-5005
Name: <u>CDS STXDC 2021 LLC</u> Number on Map <u>19</u>	
Address: 125 Camelot Dr	
Address: Fond Du Lac, WI 54935	
2447055, 1 Old Du Lac, W1 54935	li

Please identify where you obtained the landowner information:

Erath County Appraisal District; October 2022

Facility Name: Schreiber Foods, Inc.



## ATTACHMENT E - PHOTOGRAPHS

## E.1 Photograph Location Map

Figure E.1, Photograph Location Map, shows the location of each photograph and the direction the camera was facing when the photograph was taken.

#### E.2 Photographs

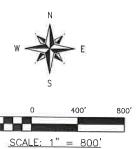
Figures E.2a-b, Photographs, are original photographs of the effluent disposal sites and production area.



Map Generated 11/8/2022

<u>Legend:</u>

Denotes Photograph Location



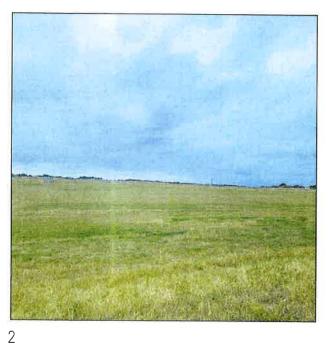
Source: USDA-NRCS. Geospatial Data Gateway. Available at: <a href="http://datagateway.nrcs.usda.gov/">http://datagateway.nrcs.usda.gov/</a>. Digital Raster Graphic County Mosaic by NRCS - Accessed November 2017.

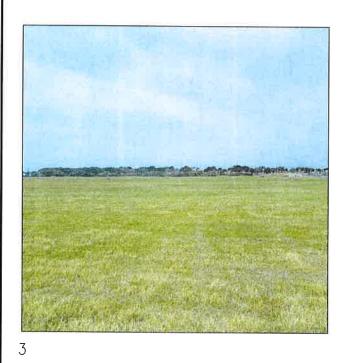
Schreiber Foods, Inc. Stephenville, TX Erath County Photograph Location Map Figure E.1 Page 8



Enviro-Ag Engineering, Inc.
ENGINEERING CONSULTANTS
3404 Airway Boulevard
AMARILLO, TEXAS 79118
TEL (806) 353-6123 FAX (806) 353-4132









Schreiber Foods, Inc. Stephenville, Texas Erath County

Photographs Figure E.2a Page 9



ENVIRO AG Enviro-Ag Engineering, Inc.

ENGINEERING CONSULTANTS
3404 Airway Boulevard
AMARILLO. TEXAS 79118

TEL (806) 353-6123 FAX (806) 353-4132





5 6

> Schreiber Foods, Inc. Stephenville, Texas Erath County

Photographs Figure E.2b Page 10



ENVIRO AG Enviro-Ag Engineering, Inc.
ENGINEERING CONSULTANTS
3404 Airway Boulevard
AMARILLO, TEXAS 79118
TEL (806) 353-6123 FAX (806) 353-4132

# ATTACHMENT 1 - FACILITY/SITE INFORMATION AND MAPS

#### 1.1 Process Flow Diagram

Figure 1.1, Process Flow Diagram, provides an overall schematic of the plant processes at the site.

#### 1.2 Vicinity Map

Figure 1.2, Vicinity Map, is a general highway map generated in AutoCAD using Tiger Primary and Secondary roads data from geospatial Data Gateway at <a href="http://datagateway.nrcs.usda.gov/">http://datagateway.nrcs.usda.gov/</a> (retrieved 2022). The location of the facility is depicted on the map.

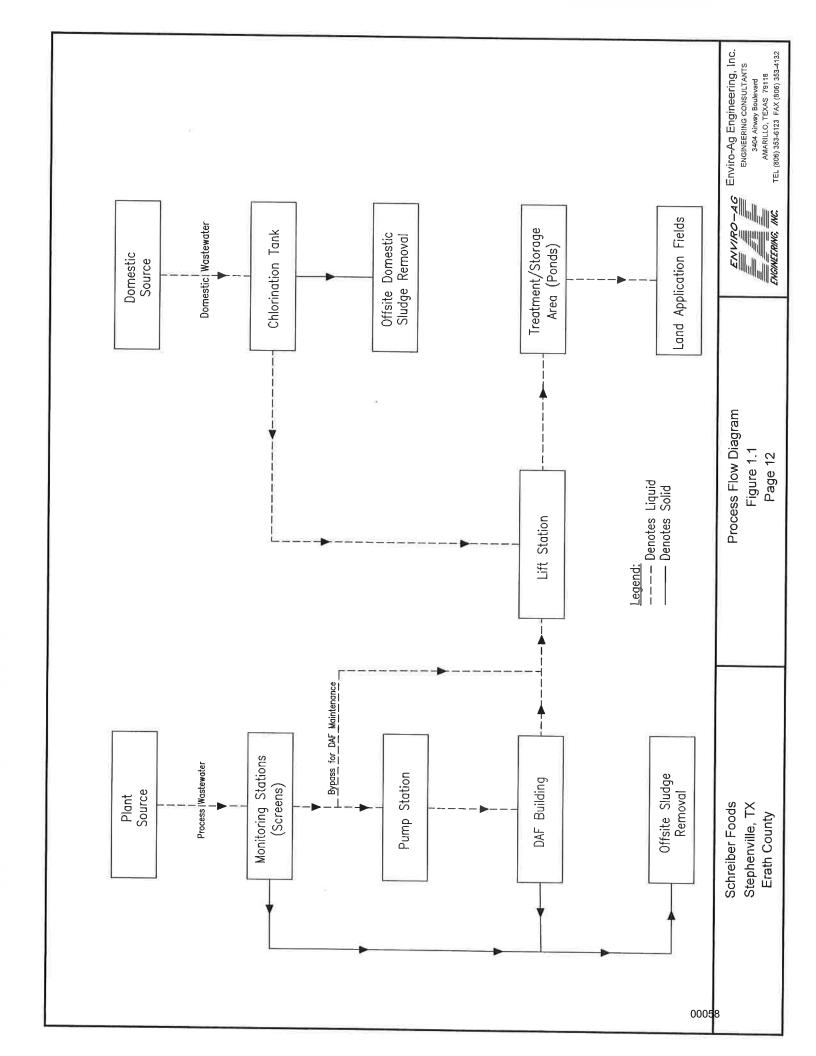
#### 1.3 7.5 Minute USGS Map

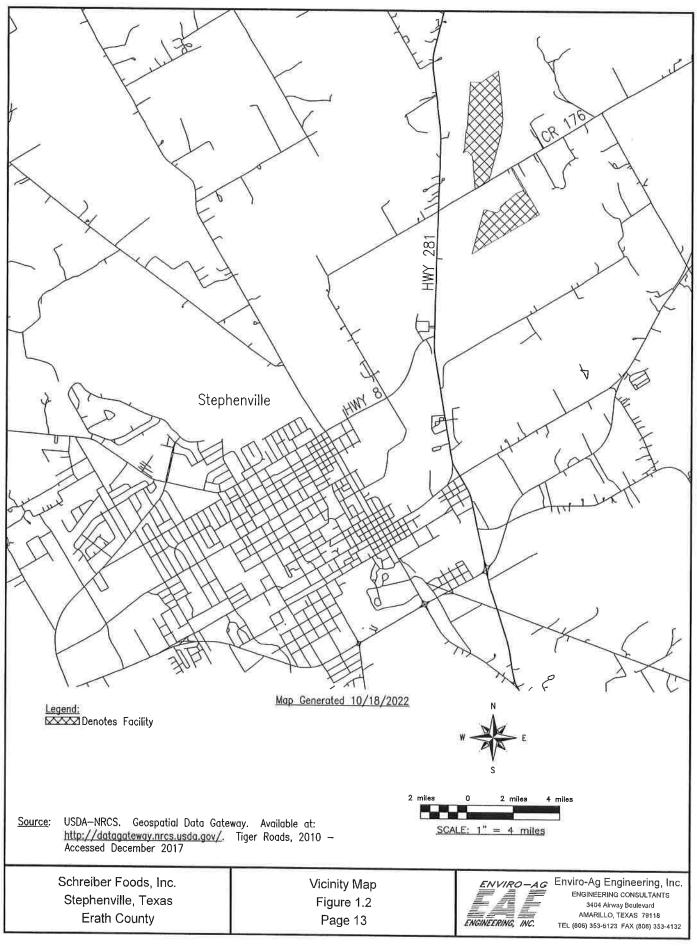
Figure 1.3, entitled 7.5 Minute USGS Map, is a seamless, high-quality copy of the 7.5-Minute USGS quadrangle map (Stephenville and Knob Hill, TX quadrangle) that shows the boundary of the land owned, operated, or controlled by the facility and used as part of the application; and all springs, lakes, or ponds located on-site and within 1 mile of the property boundary.

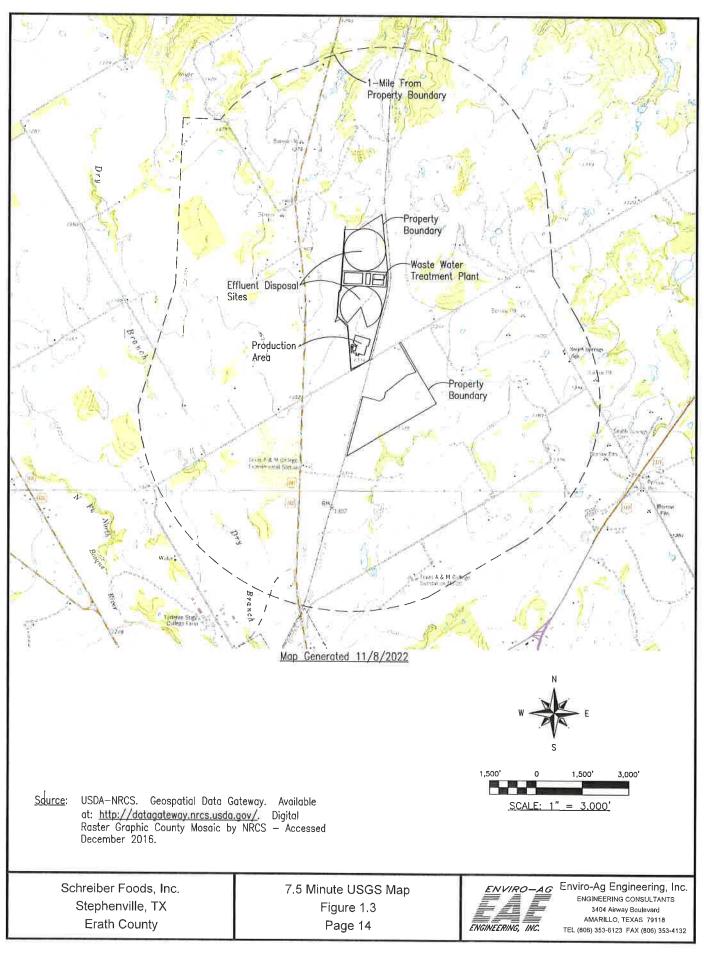
#### 1.4 Site Map

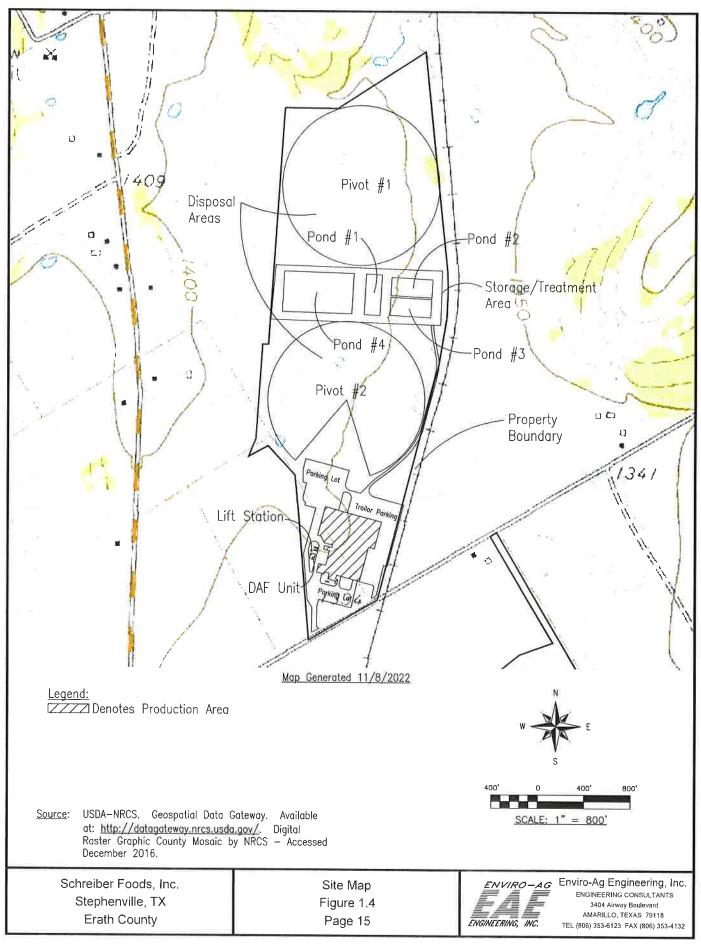
Figure 1.4, Site Map, is a scaled drawing of the entire property to be permitted showing the locations of the following:

- Production Area
- Storage/Treatment Area
- Waste Disposal Areas









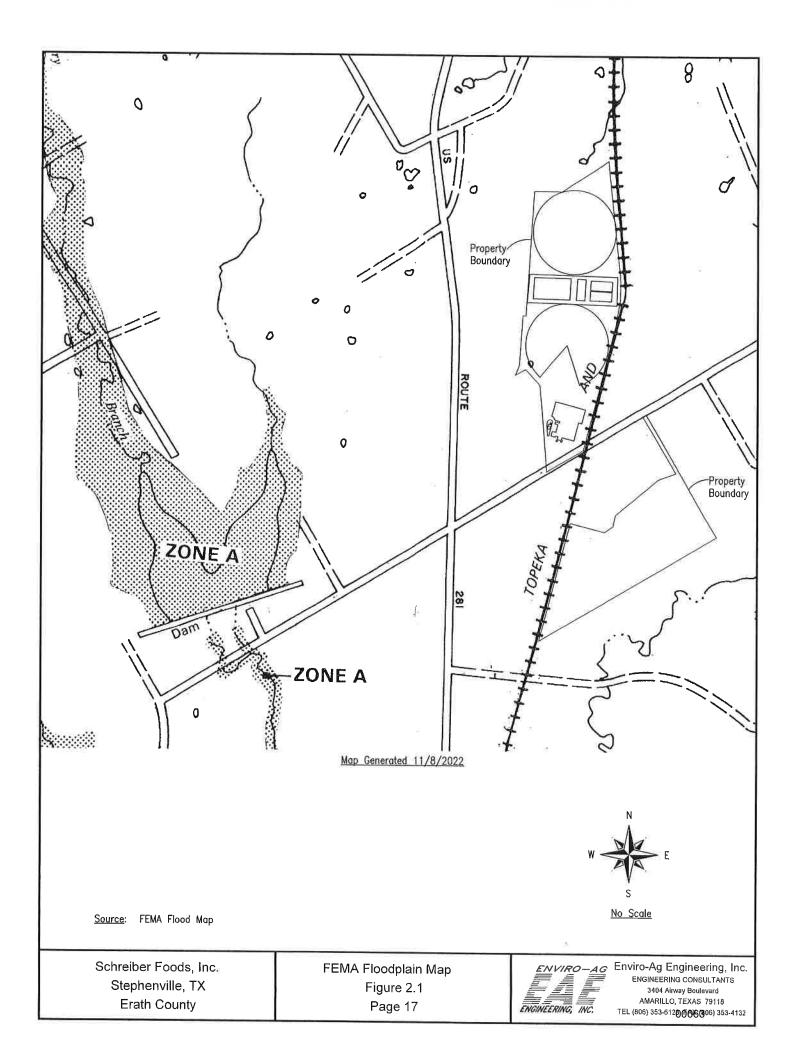
## ATTACHMENT 2 - FLOODPLAIN INFORMATION

## 2.1 FEMA Floodplain Map

Figure 2.1, FEMA Floodplain Map, shows the production area and waste disposal areas overlain on a copy of the FEMA map panels for this area of Erath County.

#### 2.2 Protective Measures

According to the FEMA Floodplain map for Erath County, the production area and waste disposal areas are not located in a 100-year floodplain area.



# ATTACHMENT 3 - IMPOUNDMENT FACILITY & LINER/GEOLOGY INFORMATION

Documentation on the existing facility impoundments was taken from onsite facility files and previous TCEQ applications. The documentation is included as an attachment to this section.

# Schreiber Foods, Inc.

Exhibit XVII

North and South Pond Data

#### BOUTHWESTERN LABOR TORIES

AMPI - Stephenville, TX

st Location	North	South	Minimum Requireme:
il Description	8	100.	
Color	Yellow & Gray	Yellow & Gray	
[exture	Sandy Lean Clay	Sandy Lean Clay	
Jmified Classification	CL	CL .	
mple Depth, Inches	24	24	24
terberg Limits			
Liquid Limit, %	33	32	30
Plastic Limit, %	14	14	
Plasticity Index	19	18	15
ssing No. 200 Sieve, %	89.6	81.1	30
instant Head Permeability, cm/sec.	1.2×10 <sup>-8</sup>	2.3x10 <sup>-8</sup>	1.0x1.07
Molded Density, pcf	113.7	110.2	
Molded Moisture, %	18.5	19.4	

# Schreiber Foods, Inc.

Exhibit XVI

Pond #3 Data

John Hall. Chairman
Pam Reed, Commissioner
Peggy Garner, Commissioner
Anthony Crigsby, Executive Director



# TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

September 5, 1994

Mr. Kenneth L. Petersen, Jr. Small, Craig, & Werkenthin 100 Congress Ave., Suite 1100 Austin, Texas 78701-4099

RE: AMPI Stephenville Facility (Permit No. 03074) Liner Plan Approval

Dear Mr. Petersen:

We have received the engineering drawings and technical specifications for the liner requirements for the new wastewater lagoon to be constructed at the Stephenville Facility submitted with your letter dated 9/2/94 and a letter from Mr. Cliff Lutz, P.E. dated 9/1/94. These materials were submitted to satisfy the requirements of Special Provision 9.F of Permit No. 03074.

Review of these materials indicates that the proposed liner is in accordance with the provisions of the permit as stated below:

(i) The soil liner shall contain at least 3 feet of clay-rich (liquid limit greater than or equal to 30 and plasticity index greater than or equal to 15) soil material along the sides and bottom of the pond, lagoon or impoundment compacted in lifts of no more than 9 inches, to 95% standard proctor density at the optimum moisture content to achieve a permeability equal to or less than 1 x 10-7 cm/sec.

Upon that basis, the pond liner plans are approved. Within 60 days of completion of construction of the new lagoon, the engineer must provide written certification to the Permitting Section of the Watershed Management Division that the pond liner meets these specifications.

Sincerely.

Karen D. Cleveland, P.E.

Permitting Section

KDC

cc: Cliff Lutz, P.E. - AMPI Frank Kelly - AMPI

P.O. Box 13087 - Austin, Texas 78711-3087 - 512/239-1000

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# ASSOCIATED MILK PRODUCERS, INC. Southern Region

December 29, 1994

Karen Cleveland
Texas Natural Resource Conservation Commission
Industrial Permits Section
Watershed Management Division
Room 286, Building F
12015 North IH-35
Austin, TX 78753

Reference:

AMPI Stephenville Facility

TNRCC Permit Number 03074

Dear Ms. Cleveland:

The Associated Milk Producers, Incorporation (AMPI) are pleased to submit certification required by our amended wastewater permit.

The certification is that our new lagoon liner complies with TNRCC specifications, Certification is required by VI Special Provisions, Item 9.A. of the permit.

Please find enclosed results of testing.

Sincerely,

ASSOCIATED MILK PRODUCERS, INC.

Frank Kelly

Environmental Engineer

FK/cs

enclosure

cc: Paul Walter, AMPI Ned French, AMPI Thomas Rack, AMPI Gary Christian, AMPI

# Huntingdon/SWL

Hustingdon Engineering & Environmental, Inc.

7700 Gravet Onse Fort World, Nr. 76118 /917) 284-7/55 Marco (917) 589-72;1 Fax (317) 599-1470

December 23, 1994

Texas Natural Resource Conservation Commission Room 286, Building "F" 12015 North IH-35 Austin, Texas 78753

Attn: Ms. Karen Cleveland

Industrial Permits Section Watershed Management Division

Re: Associated Milk Producers, Inc. Erath County, Texas

\_\_\_\_\_\_

Dear Ms. Cleveland:

Huntingdon/SWL has completed sampling and testing of the soils exposed in a wastewater retention ponds at the Associated Milk Producers, Inc.; Erath County. The test results including sample thickness, Atterberg limits, percent passing the number 200 sieve in-place density and permeability, are tabulated on the attached report. Our findings indicate the soils meet the criteria established by the Texas Water Commission.

Very truly yours,

HUNTINGDON/SWL

Kemp E. Akeman, P.E.

Operations Manager, Fort

tm

Submitted by:

Associated Milk Producers, Inc.

Signed by:

Date:

17-29-946

Huntingdon/SwL Report No. 406948

ASSOCIATED MILK PRODUCERS, INC.
POND NUMBER 3

TEST LOCATION	Hole #2	Hole #2	Hole #2	No. 4-Dam	No. 5-Dam	Minimum
Soil Description	No. 1	No. 2	No. 3	Northside	Northside	Northside Requirements
Color	Reddish Brown	Reddish Brown	Reddish Brown	Reddish Brown	Reddish Brown	
Texture	clay	clay	Clay	Clay	Clay	
Unified Classification	Fine	Fine	Fine	Fine	Fine	
Sample Depth	0-1'	1'-2'	2'-3'	0'-2'	2'-3'	36"
Atterberg Limits						
Liquid Limit, (%)	39	40	38	48	47	30
Plastic Limit, (%) Plasticity Index	19 20	20	18 20	19 29	21 26	15
Passing No. 200 Sieve, (%)	74.1	69.0	72.0	77.0	76.0	30
Permeability (cm/sec.)	3.2x10 <sup>-8</sup>	3.2x10 <sup>-8</sup>	3.2×10 <sup>-8</sup>	3.2x10 <sup>-8</sup>	3.2x10 <sup>-8</sup>	1.0x10 <sup>-7</sup>

Huntingdon/Swl Report No. 406948

ASSOCIATED MILK PRODUCERS, INC.
POND NUMBER 3

TEST LOCATION	Hole #1	Hole #1	取の1a ±1	Role #1 Wo 4-7-1		7
Boil Description	No. 1	No. 2	No. 3	Southside		Southside Requirements
Color	Reddish Brown	Reddish Brown	Reddish Brown	Reddish Brown	Reddish Brown	
Texture	clay	clay	Clay	Clay	Clay	
Unified Classification	Fine	Fine	Fine	Fine	Fine	
Sample Depth	0-1'	1'-2'	2'-3'	0'-2'	2'-3'	36"
Atterberg Limits						
Liquid Limit, (%) Plastic Limit, (%) Plasticity Index	51 22 29	32 17 15	37 18 19	22 22 21	24 24	30 30
Passing No. 200 Sieve, (%)	79.2	83.2	72.0	69.0	71.0	30
Permeability (cm/sec.)	3.2x10 <sup>-8</sup>	3.2x10 <sup>-8</sup> 3.2x10 <sup>-8</sup> 3.2x10 <sup>-8</sup>	3.2×10 <sup>-8</sup>	3.2x10 <sup>-8</sup>	3.2x10 <sup>-8</sup>	1.0×10-7



Corporate Office: 3404 Airway Blvd. Amarillo TX 79118

Central Texas: 9855 FM 847 Dublin TX 76446 New Mexico: 203 East Main Street Artesia NM 88210

November 23, 2020

TCEQ Industrial Permits Team, MC-148 P.O. Box 13087 Austin, TX 78711-3087

Re:

As-Built Drawing and Certifications of Additional Holding Pond (Pond #4) to Satisfy Item S of the Special Provisions of Permit No. WQ0003074000 for Schreiber Foods, Inc., Erath, Texas

Dear Sir or Madam,

Attached you will find the as-built capacity certification and soil liner certification for a new irrigation holding pond (Pond #4) meeting the requirements of Item S of the Special Provisions of Permit No. WQ0003074000. The pond was constructed in accordance with the approved plans/specifications per the attached TCEQ letter dated December 11, 2019 and in compliance with Item H of the Special Provisions in the permit. Please accept the attached documentation and pond certifications to satisfy the requirement of Item S of the Special Provisions of the permit.

If you have any questions, please do not hesitate to contact me at 806-350-5458 or by email at <a href="mailto:emailto

Respectfully Submitted,

Erick Emerine, P.E.

Enviro-Ag Engineering, Inc.

Encl: Pond #4 As-Built Capacity Certification and Soil Liner Certification w/ Support Docs

Cc: TCEQ Compliance Monitoring Team

Schreiber Foods, Inc.

EAE file

PHONE: 800-753-6525

www.enviroag.com



Corporate Office: 3404 Aîrway Blvd. Amarillo TX 79118 Central Texas: 9855 FM 847 Dublin TX 76446 New Mexico: 203 East Main Street Artesia NM 88210

November 23, 2020

TCEQ
Compliance Monitoring Team, MC-224
P.O. Box 13087
Austin, TX 78711-3087

Re:

As-Built Drawing and Certifications of Additional Holding Pond (Pond #4) to Satisfy Item S of the Special Provisions of Permit No. WQ0003074000 for Schreiber Foods, Inc., Erath, Texas

Dear Sir or Madam,

Attached you will find the as-built capacity certification and soil liner certification for a new irrigation holding pond (Pond #4) meeting the requirements of Item S of the Special Provisions of Permit No. WQ0003074000. The pond was constructed in accordance with the approved plans/specifications per the attached TCEQ letter dated December 11, 2019 and in compliance with Item H of the Special Provisions in the permit. Please accept the attached documentation and pond certifications to satisfy the requirement of Item S of the Special Provisions of the permit.

If you have any questions, please do not hesitate to contact me at 806-350-5458 or by email at <a href="mailto:emerine@enviroag.com">emerine@enviroag.com</a>.

Respectfully Submitted,

Erick Emerine, P.E.

Enviro-Ag Engineering, Inc.

Encl: Pond #4 As-Built Capacity Certification and Soil Liner Certification w/ Support Docs

Cc: TCEQ Industrial Permits Team

Schreiber Foods, Inc.

EAE file

PHONE: 800-753-6525

www.enviroag.com

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

December 11, 2019

Mr. Erick Emerine, P.E., Enviro-Ag Engineering, Inc. 3404 Airway Boulevard Amarillo, Texas 79118

Re:

Construction Plan of Additional Holding Pond to Satisfy Item S of the Special Provision of Permit No. WQ0003074000 for Schreiber Foods, Inc., Erath, Texas

Mr. Emerine:

The Texas Commission on Environmental Quality Water Quality Division received your letter with plans dated December 3, 2019 and additional material provided on December 11, 2019. We agree with your determination that the construction plans meet the requirements for Special Provisions H and S of permit No. WQ0003074000 for a new irrigation holding pond to provide the required additional capacity. The information you provided will be added to the permit file (WQ0003074000).

As agreed, on December 11, 2019 by email, ensure the monitor well located at the northwest side of the construction site is protected during construction.

If you have any questions, please contact me by telephone at (512) 239-4570 or <a href="mailto:Thomas.Starr@tceq.texas.gov">Thomas.Starr@tceq.texas.gov</a>.

Sincerely,

Thomas Starr, P.E.

Wastewater Permitting Section (MC-148)

Water Quality Division

TES/kb



Corporate Office: 3404 Airway Blvd. Amarillo TX 79118 Central Texas: 9855 FM 847 Dublin TX 76446

New Mexico: 203 East Main Street Artesla NM 88210

### CAPACITY CERTIFICATION

Schreiber Foods, Inc. Stephenville, Erath County, TX

### Capacity Certification - Pond #4 (Industrial Wastewater Storage/Irrigation Pond)

An as-built survey was conducted on 10/09/2020 by Enviro-Ag Engineering, Inc., to determine the total capacity of Pond #4. The capacity with two feet of dry freeboard was calculated to be:

Structure

Capacity

Pond #4

42.93 acre-feet

Attached with this certification includes the as-built capacity drawing plan/profile and a pond marker schematic with stage/storage volumes.

Respectfully submitted,

Erick Emerine, P.E. - License No. 103494

Enviro-Ag Engineering, Inc. - Engineering Firm No. 2507

Attachments:

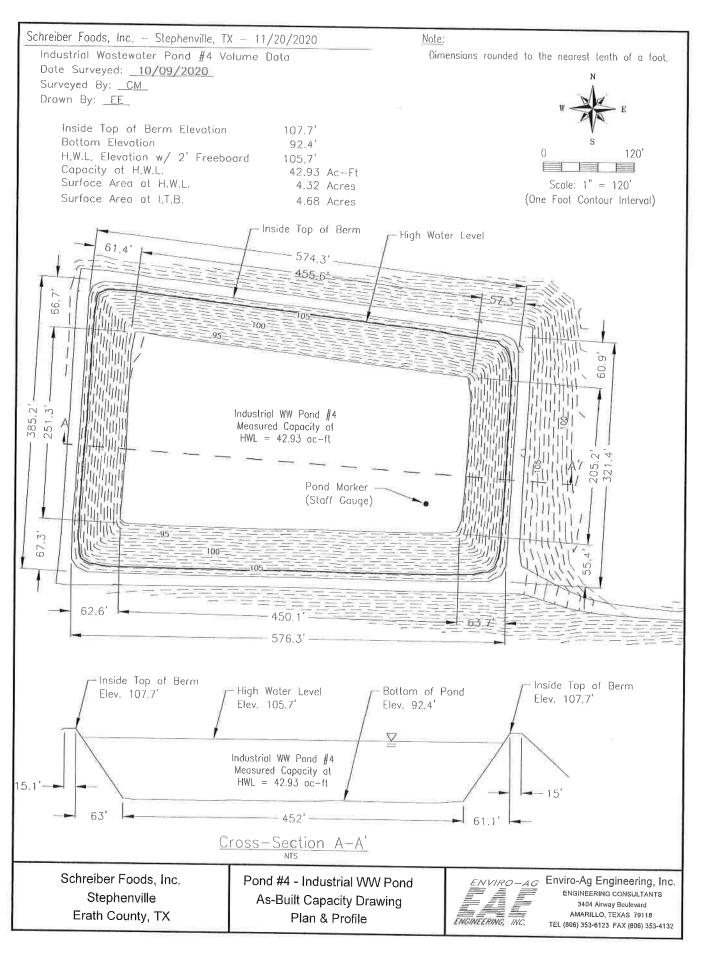
As-Built Capacity Drawing Plan & Profile

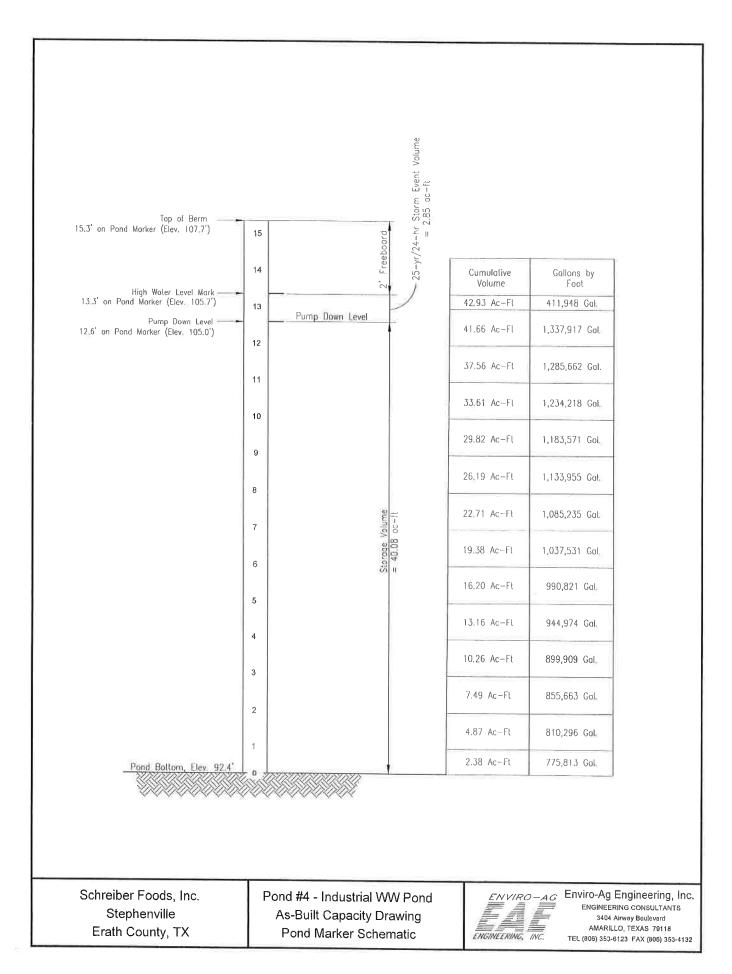
Pond Marker Schematic

PHONE: 800-753-6525

www.enviroag.com

-23-2020







Corporate Office: 3404 Airway Bivd. Amarillo TX 79118 Central Texas: 9855 FM 847 Dublin TX 76446

New Mexico: 203 East Main Street Artesia NM 88210

### SOIL LINER CERTIFICATION

Schreiber Foods, Inc. Stephenville, Erath County, TX

### Soil Liner Certification - Pond #4 (Industrial Wastewater Storage/Irrigation Pond)

Six 3-inch Shelby tube core samples were collected from Pond #4 to document that the liner meets the requirements of the ICEQ for soil liner. The liner thickness was documented to be at least 36 inches.

The hydraulic conductivity of the clay soll liner is documented as follows:

Pond #4 – Sample 1	(West Bottom, Lab #5473)	6.2 x 10 <sup>-8</sup> cm/sec
Pond #4 – Sample 2	(East Bottom, Lab #5474)	4.1 x 10 <sup>-8</sup> cm/sec
Pond #4 – Sample 3	(East Sidewall, Lab #5475)	4.6 x 10 <sup>-8</sup> cm/sec
Pond #4 - Sample 4	(South Sidewall, Lab #5476)	4.6 x 10 <sup>-8</sup> cm/sec
Pond #4 – Sample 5	(West Sidewall, Lab #5477)	3.8 x 10 <sup>-8</sup> cm/sec
Pond #4 – Sample 6	(North Sidewall, Lab #5478)	3.1 x 10 <sup>-8</sup> cm/sec
	Pond #4 – Sample 2 Pond #4 – Sample 3 Pond #4 – Sample 4 Pond #4 – Sample 5	Pond #4 – Sample 1 (West Bottom, Lab #5473) Pond #4 – Sample 2 (East Bottom, Lab #5474) Pond #4 – Sample 3 (East Sidewall, Lab #5475) Pond #4 – Sample 4 (South Sidewall, Lab #5476) Pond #4 – Sample 5 (West Sidewall, Lab #5477) Pond #4 – Sample 6 (North Sidewall, Lab #5478)

Based on the above documentation, the liner in Pond #4 is determined to be in accordance with TCEQ requirements for soil liners. The test locations were backfilled with bentonite chips. The test results meet the requirements of the TCEQ for hydraulic conductivity considered protective of ground and surface water sources. The pond was constructed in accordance with the approved plans and specifications. Attached with this certification includes the soil liner seepage rate calculations, permeability test results, pond embankment construction moisture/density tests and soil liner construction moisture density tests.

Respectfully submitted,

Erick Emerine, P.E. – License No. 103494

Enviro-Ag Engineering, Inc. - Firm No. 2507

Attachments:

Seepage Calculations

**EAE Permeability Lab Reports** 

GSS Laboratories & Specialty Testing Moisture Density Testing Reports

PHONE: 806-353-6123

www.enviroag.com

1-23-2020

# CALCULATION OF SPECIFIC DISCHARGE

SITE: Schreiber Foods, Inc.

LOCATION: Stephenville, Erath C

STRUCTURE: Pond #4 (Industrial W

Stephenville, Erath County, TX
Pond #4 (Industrial WW Storage/Irrigation Pond)

discharge of the installed liner is 1.1 x E-06 cm/sec or 0.0374 in/day. This worksheet calculates the specific discharge through a soil tiner based on the measured thickness of the installed clay liner and the results of the permeability testing. The maximum allowable specific

				Hydraulic Cor	ductivity Results	Hydraulic Conductivity Results of Core Samples	
Laboratory Sample I.D.	5473	5474	5475	5476	5477	5478	
l. Water Depth, feet	13.3	13.3	13.3	13.3	13.3	13.3	
<ol><li>Liner Thickness, inches</li></ol>	36.0	36.0	36.0	36.0	36.0	36.0	
<ol> <li>Hydraulic Conductivity, cm/sec</li> </ol>	6.20E-08	4.10E-08	4,60E-08	4.60E-08	3.80E-08	3.10E-08	
4. Calculated specific discharge, v							
Seepage Rate, inches/day	0.0115	0.0076	0.0085	0.0085	0.0070	0.0057	
Maximum Seepage Rate, inches/day	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	

### NOTES:

(1) Water depth of the pond in feet

(2) Soil liner thickness in inches.

(3) Hydaulic conductivity of the core sample(s) as determined by fixedble wall permeameter in cm/sec (Ref. ASTM D 5084).

The following equation is used:

 $\mathbf{v}' = \mathbf{k} \left( \mathbf{H} + \mathbf{d} \right) / \mathbf{d}$ 

where: v' = Specific Discharge of area representative of core sample, inches/day

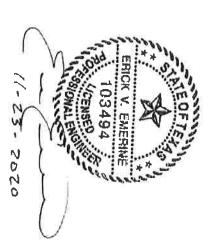
d = Measure Liner Thickness at core sample location, feet

k = Hydautic Conductivity of liner based on core sample testing, inches/day

H = Maximum Water Depth, feet

(4) Maximum Allowable Seepage Rate of 1.1 E-06 cm/sec (0.0374 in/day).

Erick Emerine, PE Enviro-Ag Engineering, Inc. TX Firm No. 2507



ENGINEER: E.Emerine DATE: 11/20/2020

() (4) to 20 20 (1) (1)	Project Engineer: Shrelber kagasing Sampled by:  Date Sampled: 10/9/107  Date to Lab: 16/13/207  Received: Aunt Kaulen	TRIAXIAL PERMEABILITY CHAIN of CUSTODY  #5 #1 #7 #7 #7 #7
	☐	#1 #2 #3 #4 #5 #46
	## Total Process  ## Total Pro	PERM REPORT I.D.
	The state of the s	LAB LOG 5473 5474 5475 5476 5476

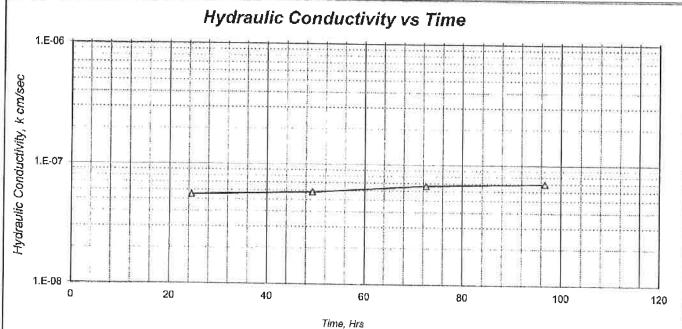
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LABORATORY SERVICES



REPORT

ASTM D-5084, Method C Glent / Project Name: Schrelber Lagoon Lab Sample Number 20/05/10 5473 Sample ID. AMING LOSOMON Report Dete: November 2, 2020



### SPECIMEN DATA

SAMPLE ID:	1		
DESCRIPTION:	#1		
	INITIAL	FINAL	
   HEIGHT, In.	2.7	2.8	
DIAMETER, in.	2.9	2.9	
WATER CONTENT, %	10.9	14.3	
DRY DENSITY, pcf	124	122	
SATURATION, %	81	100	
(Specific Gravily assumed as 2.7)			
SAMPLE COLOR	Light Brown		
SAMPLE CONSISTENCY	Clay/Sand		

COMMENTS:

Tap water used as permeant.

### **TEST DATA**

	ASTM D-5084	, Method C	
EFFECTIVE STRESS;		5 psi	
GRADIE	ENT RANGE:	2 - 3	
IN/OU	T RATIO:	1.00	
		HYDRAULIC	= 171
TRIAL	TIME	CONDUCTIVITY	
<u>nos,</u>	<u>hrs.</u>	cm / sec	
1	24.5	5.5E-08	
2	49.3	5.8E-08	
3	72.7	6.7E-08	
4	96.8	7.0E-08	
			- 1

AVERAGE LAST 4:

6.2E-08

Those results apply only to the above listed samples. The data and information are proprietary and can not be released without authorization of Emain-Ag Engineering In-By accepting the data and results represented on this page, client agrees to limit the liability of Enviro-Ag Engineering, line, from Client and all other parties claims enlaing out of the use of this data to the cost for the respective (est(s) represented here, and Client agrees to Indemnify and hold harmless Enviro. Ag from and applies all liability in Print Date:

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11/02/20

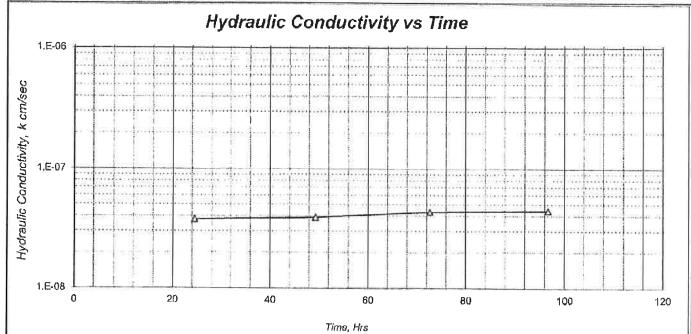
Micah Mullin

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REPORT ASTM D-5084, Method C

Chent/Project Name Schreiber Lagoon Prolect No. **20/05/10** Lab Samole Number 5474 Sample ID: Report Date: #2 November 2, 2020



### SPECIMEN DATA

2	
#2	
<u>INITIAL</u>	FINAL
2.7	2.7
2.9	2.9
10.8	16.0
120	117
71	99
Light Brown	
Clay/Caliche	
	#2  INITIAL  2.7 2.9 10.8 120 71  Light Brown

COMMENTS:

Tap water used as permeant.

### **TEST DATA**

	ASTM D-5084, Method C			
EFFECT	TIVE STRESS:	5 psi		
GRADIE	ENT RANGE:	2 - 3		
IN/OU	T RATIO:	1.00		
		HYDRAULIC		
TRIAL	TIME	CONDUCTIVITY		
nos.	<u>hrs,</u>	cm / sec		
1	24.5	3.8E-08		
2	49.3	3.9E-08		
3	72.7	4.4E-08		
4	96.8	4.4E-08		
1				
ľ				

AVERAGE LAST 4:

4.1E-08

These results apply only to the above listed samples. The duta and information are propriotary and can not be released without authorization of Enviro-Ag Engineering Inc. By accepting the data and results represented on this page, client agrees to limit the liability of Enviro-Ag Engineering, Inc. from Ciloni and all other parties claims arising out of the use of this data to the cost for the respective test(s) represented here, and Client agrees to indemnify and hernless Enviro-Ag from and against all liability in excess of the aforementioned limit.

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Print Date: 11/02/20

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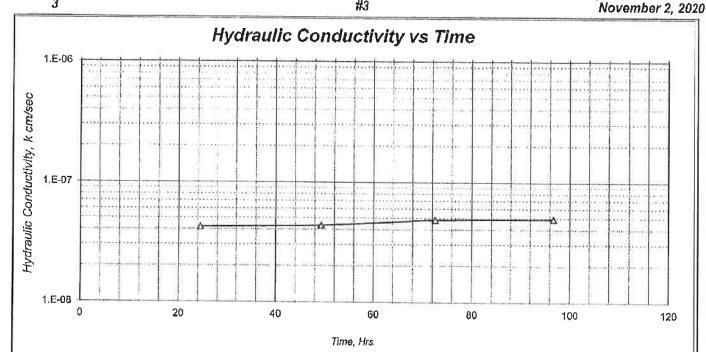
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### LABORATORY SERVICES



REPORT ASTM D-5084, Method C

Client / Project Namo: Lah Sample Number: 20/05/10 Schreiber Lagoon *5475* Report Date: #3



### SPECIMEN DATA

3	
#3	
<u>INITIAL</u>	FINAL
3.0	3.0
2.9	2.9
10.5	16.1
119	118
68	100
Light Brown	
Clay/Caliche	
	3.0 2.9 10.5 119 68 Light Brown

COMMENTS:

Tap water used as permeant.

### **TEST DATA**

	ACTM D EDGA	Matheda	
	ASTM D-5084,	Method C	
EFFEC1	TIVE STRESS:	5 psi	
GRADIE	NT RANGE:	2 - 3	
IN/OUT	TRATIO:	1.00	
		HYDRAULIC	
TRIAL	TIME	CONDUCTIVITY	
<u>1108.</u>	<u>hrs.</u>	cm/sec	
1	24.5	4.2E-08	
2	49.3	4.3E-08	
3	72.7	4.8E-08	
4	96,8	4.9E-08	
AVER	RAGELASTA	4 6F-08	

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Print Date:

11/02/20

Reviewed By.

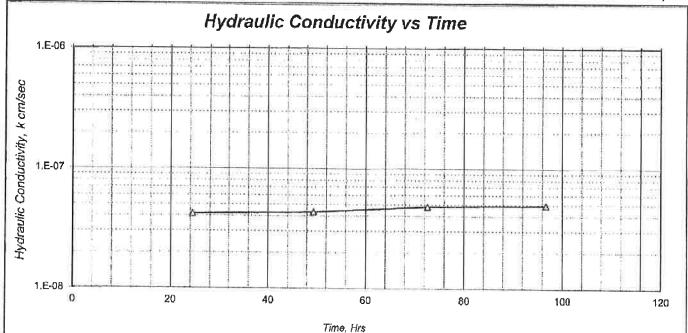
Micah Mullin

Wheall 005475

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REPORT ASTM D-5084, Method C

Client / Project Name: Schreiber Lagoon Lab Sample Number: 20/05/10 5476 Sample ID: Report Date: November 2, 2020



### SPECIMEN DATA

SAMPLE ID:	4		
DESCRIPTION:	#4		
	<u>INITIAL</u>	FINAL	
HEIGHT, in.	3.0	3.0	
DIAMETER, in.	2,9	2.9	
WATER CONTENT, %	11.4	16.6	
DRY DENSITY, pcf	118	116	
SATURATION, %	73	100	
(Specific Gravity essumed as 2.7)			
SAMPLE COLOR	Light Brown		
SAMPLE CONSISTENCY	Clay/Caliche		

### COMMENTS:

Tap water used as permeant.

### TEST DATA

1,444 ( 42,112 )			
	ASTM D-5084,	Method C	
EFFEC*	TIVE STRESS:	5 psi	
GRADIE	ENT RANGE:	2 - 3	
IN/OU	T RATIO:	1.00	
		HYDRAULIC	
TRIAL	TIME	CONDUCTIVITY	
nos.	<u>hrs.</u>	cm / sec	
1	24.5	4.2E-08	
2	49.3	4.3E-08	
3	72.7	4.8E-08	
4	96.8	4.9E-08	

AVERAGE LAST 4:

4.6E-08

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Print Date:

11/02/20

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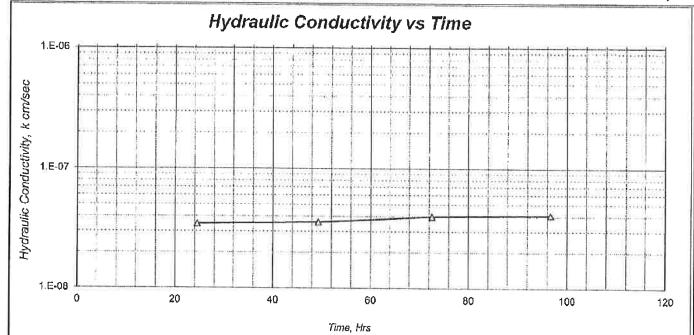
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### LABORATORY SERVICES



REPORT ASTM D-5084, Method C

Client / Project Nama: Lab Sample Number. Schreiber Lagoon 20/05/10 5477 Sample ID; Report Date: #5 November 2, 2020



### SPECIMEN DATA

SAMPLE ID:	5	
DESCRIPTION:	#5	
	INITIAL	<u>FINAL</u>
HEIGHT, In.	2.5	2.5
DIAMETER, in.	2.9	2.9
WATER CONTENT, %	10.2	15.2
DRY DENSITY, pcf	120	119
SATURATION, %	69	100
(Specific Gravity assumed as 2.7)		
SAMPLE COLOR	Brown	
SAMPLE CONSISTENCY	Clay/Caliche	

COMMENTS:

Tap water used as permeant.

### TEST DATA

	ASTM D-5084,	Method C						
EFFEC	TIVE STRESS:	5 psi						
GRADII	ENT RANGE:	3 - 3						
IN/OU	T RATIO:	1.00						
		HYDRAULIC						
TRIAL	TIME	CONDUCTIVITY						
nos.	<u>hrs.</u>	cm/sec						
1	24.5	3.5E-08						
2	49.3	3.6E-08						
3	72.7	4.0E-08						
4	96,8	4.1E-08						

3.8E-08 AVERAGE LAST 4:

These results apply only to the above tisked samples. The data and information are proprietary and can not be released visious authorization of Emarc-Ag Engineering inc By accepting the dots and results represented on this page, client agrees to limit the liability of Enviro-Ag Engineering, Inc. from Client and all other parties claims arising out of the use of this data to the cost for the respective test(s) represented here, and Client agrees to indemnify and field harmless Enviro Ap from and against all liability in excess of the afarementioned limit.

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Print Date:

11/02/20

Micah Mullin

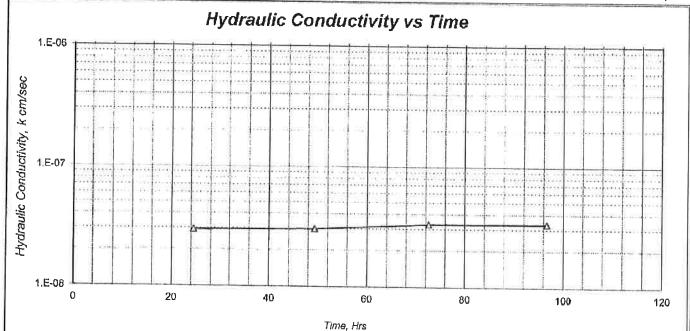
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### LABORATORY SERVICES

REPORT

ASTM D-5084, Method C Chant / Proyuct Name. Lab Sample Number Schreiber Lagoon 20/05/10 5478 Sample ID. Sampio посацот Report Date. #6 November 2, 2020



### SPECIMEN DATA

SAMPLE ID:         6           DESCRIPTION:         #6           INITIAL         FINAL           HEIGHT, In.         2.8         2.8           DIAMETER, in.         2.9         2.9           WATER CONTENT, %         9.6         16.2           DRY DENSITY, pcf         119         117           SATURATION, %         62         98           (Specific Gravity essumed as 2.7)         Brown           SAMPLE COLOR         Brown			
NITIAL   FINAL	SAMPLE ID:	6	
HEIGHT, In.       2.8       2.8         DIAMETER, in.       2.9       2.9         WATER CONTENT, %       9.6       16.2         DRY DENSITY, pcf       119       117         SATURATION, %       62       98         (Specific Gravity essumed as 2.7)       Brown	DESCRIPTION:	#6	
DIAMETER, in.       2.9       2.9         WATER CONTENT, %       9.6       16.2         DRY DENSITY, pcf       119       117         SATURATION, %       62       98         (Specific Gravity essumed as 2.7)       Brown		INITIAL	FINAL
WATER CONTENT, %         9.6         16.2           DRY DENSITY, pcf         119         117           SATURATION, %         62         98           (Specific Gravity essumed as 2.7)         Brown	HEIGHT, In.	2.8	2.8
DRY DENSITY, pcf 119 117 SATURATION, % 62 98 (Specific Gravity essumed as 2.7) SAMPLE COLOR Brown	DIAMETER, in.	2.9	2.9
SATURATION, % 62 98 (Specific Gravity essumed as 2.7) SAMPLE COLOR Brown	WATER CONTENT, %	9.6	16.2
(Specific Gravity essumed as 2.7 ) SAMPLE COLOR Brown	DRY DENSITY, pcf	119	117
SAMPLE COLOR Brown	SATURATION, %	62	98
CAAADI S Ochaaniinaa	(Specific Gravity assumed as 2.7)		
SAMPLE CONSISTENCY Clay/Caliche	SAMPLE COLOR	Brown	
	SAMPLE CONSISTENCY	Clay/Caliche	

### COMMENTS:

Tap water used as permeant.

### TEST DATA

	ASTM D-5084.	Method C
EFFEC.	TIVE STRESS:	5 psi
GRADIE	NT RANGE:	2 - 3
IN/OU	T RATIO:	1.00
		HYDRAULIC
TRIAL	TIME	CONDUCTIVITY
nos.	<u>hrs.</u>	cm/sec
1	24.5	2.9E-08
2	49.3	3.0E-08
3	72.7	3.3E-08
4	96,8	3.3E-08

AVERAGE LAST 4:

3.1E-08

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2 : Soils Lab\Perms \1920 \ 20/05/10 \ 5478

11/02/20

Micah Mullin

Reviewed By: Withall 005478

EMBANKMENTS



### IN-PLACE DENSITY TEST SERVICE ORDER

CLIENT: Big				CLIEN	T NO:			
	O Box 69, Blanket, Tx, 764	32			RT NO: 20051	1		
Project: Sch	rieberFood				8-31-2020			
AUTH: Jeff				PAGE	: 1 of 1			
JOBSITE INI	ieber FORMATION	TEST	TEST		OD	R	REQUIREMENTS	
Contr: Big Ir	on	DENSITY			D 2922		96	
JOBSITE: Jo		MOISTUR			D 3017		-1 to +3	
TIME:		GAUGE N		3430		-		
REMARKS:								
		MOISTURE / DE		LATION				
M/D NO.	TEST OF	MATERI DESCRIP			OPTIMUM MOISTURI		MAXIMUM DENSITY	
1	Emb	Lt Br Silty L	.oam		15.3		113.2	
2	Emb	Purple & Gre	y Clay	: :	17.4		105.4	
***********	W-1017 - 10 - 10 - 10 - 10 - 10 - 10 - 10	IN-PLACE DE	NSITY TES	STS				
TEST	TEST	M/D	MOIS	TURE	DENS	ITY	PERCENT	
NO.	LOCATION	NO.	CON	TENT	pci	•	COMPACTION	
		ne de la companya de		lbs		wet		
E Ben	m#1	2	17.3		106.1	dry	100.7	
				lbs		wet		
S Beri	m#2		16.4		105,0	dry	99.6	
		•		ibs		wet		
N Ber	m # 3		16.8	%	105.1	dry	99.7	
S Ben	m # 4	4	40.0	lbs %	113.2	wet	400.0	
2 0411	(I) # 4	1_	16.8	lbs	113.2	dry	100.0	
E Berr	m # 6	1	16.8	₩ ₩	113.1	<u>wet</u> dry	99.9	
E 0011	111 # 0		10.0	lbs	110.1	wet	99.0	
N Ben	m#6	1	16.9		113.4	dry	100.2	
		***************************************		Ibs	0	wet		
N Ber	m # 7	1	16.4	%	113.3	dry	100.0	
		-		lbs		wet		
S Beri	m#8		16.4	%	112.9	dry	99.7	
		WT	HOAT - CO - H	lbs		wet		
E Ben	m#9	1_	16.0		113.7	dry	100.4	
				lbs		wet		
we				2/0		dry	•	
TECHNICIAN			OFF	DIV	TEST	UNITS		
TIME: STAR								
CLIENT REP	1		Time		1 Day			
			Trip					
CONTRACTO	OR NOTIFIED OF RESULT:	S (Y/N)	Total					

TECHNICIAN:

0/5



CLIENT: B	lig Iron			CLIENT	NO:		
	: PO Box 69, Blanket, Tx, 76432				T NO: 20051	4-A	
	chrieberFood			DATE: 9			
AUTH: Jef				PAGE:			CHICARD CONTRACTOR
	leber						
A CONTRACTOR OF THE PARTY OF TH	NFORMATION	TEST		METHO	D	R	EQUIREMENTS
Contr: Big	Iron	DENSITY		ASTM D			95
JOBSITE:		MOISTUR	ξE	ASTM D	3017	-	-1 to +3
TIME: 10		GAUGE N	IO.	3430			
REMARKS	17						
	N	IOISTURE / DE	NSITY RE	LATIONS	1		
M/D	TEST	MATERI	AL		OPTIMUM		MAXIMUM
NO.	OF	DESCRIP	TION		MOISTURE	<b>E</b>	DENSITY
1	Embankment	Lt Br Silty	Clay		15.3		113.2
2	Embankment	Purple & Gre	y Clay		17.4		105.4
3	Embankment	Green & Gre	y Clay	_	15.2		114.4
		IN-PLACE DE	NSITY TES	STS			
TEST	TEST	M/D	MOIS	TURE	DENS	ITY	PERCENT
NO.	LOCATION	Linee		TENT	pcf		COMPACTION
	· · · · · · · · · · · · · · · · · · ·	-	-	lbs		wet	
#10	N Berm	2	18.1	0/6	106.0	dry	100.6
				lbs		wet	
#11	S berm	2	17.1	%	106.1	dry	100.6
				lbs	3.4.1111	wet	
#12	E Berm	_1_	16.1	%	109.7	dry	97.0
				lbs		wet	
#13	E Berm	2	16.9	46	104.8	dry	99.4
اد ا	0.0			lbs		wet	
# 14	S Berm	1	16.9	%	112.9	dry	99.7
Mar.	NI Doggo		45.0	lbs	444.6	wet	
#10	N Berm	1	15.9		111.9	dry	98.9
#16	S Berm	1	150	lbs %	440 E	wet	400.0
#10	a pelli		15.3	lbs	113.5	dry	100.3
#17	E Berm	1	16.1	10S	114.9	dry	101.5
			10.1	lbs	114.0	wet	101.0
#18	N Berm	3	16.0	<del>%</del>	113.1	dry	98.9
A-market		-	10.0	lbs	170.1	wet	
#19	E Berm	3	15.9	%	113.4	dry	99.1
TECHNICIA	N: J. Slone		OFF	DIV	TEST	UNITS	
TIME: STAF			- 19-30/6		1	211110	
CLIENT RE	P:		Time				
	essential/www.nessential		Trip				
CONTRACT	TOR NOTIFIED OF RESULTS (Y	7N)	Total				

TECHNICIAN:

015



CLIENT: E	Big Iron			CLIENT	NO:		
<b>ADDRESS</b>	: PO Box 69, Blanket, Tx, 76432			REPORT NO: 200514-B			
	chrieberFood			DATE: 9			
AUTH: Jef				PAGE:			
	leber						
	NFORMATION	TEST		METHO		R	EQUIREMENTS
Contr: Big		DENSITY		ASTM D			95
JOBSITE:		MOISTUR		ASTM D	3017		-1 to +3
TIME: 11		GAUGE N	IO.	3430		-	
REMARKS							
	MC	SISTURE / DE	NSITY RE	LATIONS			
M/D	TEST	MATERI	AL		OPTIMUM		MAXIMUM
NO.	OF	DESCRIP	TION		MOISTURE		DENSITY
1	Embankment	Lt Br Silty	Clay		15.3		113.2
2	Embankment	Purple & Gre		•/	17.4		105.4
3	Embankment	Green & Gre	y Clay	_	15.2	-	114.4
		N-PLACE DEI	NSITY TES	STS			
TEST	TEST	M/D		TURE	DENS	TY	PERCENT
NO.	LOCATION	Linee		TENT	pcf	-	COMPACTION
			1	lbs	()	wet	
#20	N Berm	3	15.0		113.0	dry	98.8
		8	2	lbs	13	wet	Name of the second
#21	S Berm	3	16.1	%	112.9	dry	98.7
				lbs	//	wet	
			(0-1	₩		dry	
				lbs		wet	
		-	200	<del>%</del>		dry	
				lbs		wet	
		-		%		dry	
				lbs		wet	
		-	-	%		dry	
			-	lbs	5	wet	
		D <del>-1000</del>	-	%		dry	
				lbs %		wet	
				lbs	-	dry	
				% %		dry	
			-	Ibs	-	wet	****
				%		dry	
TECHNICIA	AN: J. Slone	As	OFF	DIV	TEST	UNITS	
TIME: STAI						014110	
CLIENT RE	P:		Time	-+			
			Trip				
CONTRACT	TOR NOTIFIED OF RESULTS (Y/I	<b>V</b> )	Total				1



	IT: Big Iron			CLIENT	NO:		
	RESS: PO Box 69, Blanket, Tx, 76432	<del></del>		REPOR			
	t: SchrieberFood				9-8-2020		
AUTH		-		PAGE:	1 of 2		
JOBS	leber ITE INFORMATION	TEST		METHO	ממ	f	REQUIREMENTS
Contr:	Big Iron	DENSITY	~	ASTM I	2922		95
	ITE: Jeff	MOISTUR	E	ASTM I	3017	-	-1 to +3
	1 Day	GAUGE N	10.	3430		-	
REMA	RKS:						
	МО	ISTURE / DE	NSITY RE	LATION	S		
M/D	TEST	MATERI		-	OPTIMUM		MAXIMUM
NO.	OF	DESCRIP	the same of the same of		MOISTURE		DENSITY
1	Embankment	Lt Br Silty			15.3		113.2
2	Embankment	Purple & Gre			17.4		105.4
3	Embankment	Green & Gre	y Clay	6° 9 <del>44</del>	15.2		114.4
		Y-PLACE DEI	NSITY TES	STS			
TEST	TEST	M/D	MOIS	TURE	DENSIT	Υ	PERCENT
NO.	LOCATION	Linee	CON,	TENT	pcf		COMPACTION
				lbs		wet	*
	#22 E Embankment Berm	3	16.7	₩	117.2	dry	98.0
	don hi bassa	_		lbs		wet	
	#23 N Berm	3	17.0	%	113.1	dry	98,9
	#24 S Berm		45.0	lbs	-	wet	
	#24 S Belli!	3	15.9	%	110.2	dry	96.3
	#25 E Berm	3	14.4	bs %	114.0	wet	00.9
	TEO E COM		14.4	lbs	, 114.0	dry wet	99.7
	#26 N Berm	3	16.8	- M	109.9	dry	96.0
			10.0	1bs	100.0	wet	- 50.0
	#27 S Berm	3	14.8	%	111.2	dry	98.1
		-	-	lbs	3	wet	
	#28 N Berm	3	14.2	%	110.6	dry	96.6
		3		lbs		wet	
	#29 S berm	3	14.4	%	114.2	dry	99.8
				lbs		wet	
	#30 E Berm		15.9	%	110.4	dry	97,5
	404 P Danie			lbs	-	wet	
	#31 E Berm	3	16.1	₩.	113.1	dry	98.9
TECHN	NICIAN: J. Stone		OFF	DIV	TEST	UNITS	
	START Stop		311			OMIT	<del></del>
	T REP:		Time				
	***************************************		Trip				
CONTR	RACTOR NOTIFIED OF RESULTS (Y/N	)	Total				
	•						



CLIENT: B	ig Iron			CLIENT	NO:		
	PO Box 69, Blanket, Tx, 76432				T NO: 200518	5	
Project: So	chrieberFood	***************************************		DATE: 9			
AUTH: Jef				PAGE:			
	ieber						
A company of the comp	NFORMATION	TEST		METHO	D	R	EQUIREMENTS
Contr. Big		DENSITY		ASTM D	2922		95
JOBSITE:	Jeff	MOISTUR		ASTM D	3017	100	-1 to +3
TIME:		GAUGE N	IO.	3430		_	1
REMARKS	Dorrected Copy						
	CV	IOISTURE / DE	NSITY RE	ATIONS			34110
M/D	TEST	MATERI			OPTIMUM		MAXIMUM
NO.	OF	DESCRIP			MOISTURE		DENSITY
1	Embankment	Lt Br Silty (	Clay		15.3		113.2
2	Embankment	Purple & Gre			17.4		105.4
3	Embankment	Green & Gre		· ·	15.2		114.4
		IN-PLACE DEI	NSITY TES	TQ			<del></del>
TEST	TEST	M/D	MOIS		DENSI	TV	PERCENT
NO.	LOCATION	Linee		TENT	pcf	1 (	COMPACTION
***************************************		X 17 15 15 15 15 15 15 15 15 15 15 15 15 15		lbs	por	wet	OOMI NOTION
#32	S Emb Berm	3	15.5	₩	109.9	dry	96.1
			-	lbs	17.7.5	wet	
#33	N Emb Berm	3	14.7	%	113.1	dry	98.9
-				lbs		wet	
#34	E Emb Berm	3	15.3	%	111.1	dry	97.1
_				lbs		wet	
#35	N Berm	3	14.6	%	112.4	dry	98.3
				lbs		wet	
#36	S Berm	3	14.9	%	113.6	dry	99.3
			-	lbs		wet	
	A	18-18-19-19		₩	()	dry	
				lbs		wet	
			-	%		dry	
				lbs %		wet	
•			-			dry	
				lbs %		wet	
				lbs		dry wet	<del></del>
·			16,1	%		dry	
TECHNICIA			OFF	DIV	TEST	UNITS	<b>"</b>
TIME: STAF						TI THE THE CASE	
CLIENT RE	P:		Time				
		70-45	Trip				
CONTRACT	TOR NOTIFIED OF RESULTS (Y	/N)	Total				

TECHNICIAN:

C 45



CLIENT: BIS	g Iron			CLIENT	NO.			
ADDRESS:	PO Box 69, Blanket, Tx, 764	132		REPORT NO: 200516-A				
Project: Sch	rrieberFood				-14-2020	071		
AUTH: Jeff				PAGE:				
IODOPEE IN	leber							
	FORMATION	TEST		METHO		F	REQUIREMENTS	
Contr: Big Ir		DENSITY		ASTM D			95	
JOBSITE: J		MOISTUR		ASTM D	3017		-1 to +3	
TIME: 1 Da	зу	GAUGE N	IO.	3430		-		
		Molecular (ac	Mount		<del></del>			
M/D	TEST	MOISTURE / DE MATERI		LATIONS	COTANIA			
NO.	OF	DESCRIP			OPTIMUM MOISTURE		MAXIMUM DENSITY	
1 Emba	ankment Berm	Lt Br Silty (	Andrew Control of the		15.3		113.2	
	ankment Berm	Purple & Gre	TO A SECRET LAND ASSESSMENT OF THE PARTY OF	() : <u>ama</u>	17.4	_	105.4	
3 Emba	nkment Berm	Green & Gre			15.2		114.4	
		IN-PLACE DE	NSITY TES	its				
TEST	TEST	M/D	MOIS		DENS	ITY	PERCENT	
NO.	LOCATION	Linee	CON.	. –	pcf	• • •	COMPACTION	
#37 E	Dates	_	- 414	lbs	-	wet		
#37 E	Dellii		14.9	%	112.4	dry	99.2	
#38 S	Berm	1	15.0	lbs %	110.6	wet	07.0	
		<del>-</del> :	10.0	lbs	110.0	dry	97.8	
#39 N	Berm	2	16.7	%	104.8	dry	99,4	
	112 112 112 112 112			lbs	101.0	wet	00,4	
#40 S	Berm	3	15.2	%	113.6	dry	99.3	
	_			lbs	***************************************	wet		
#41 N	Berm	_ 3	16.1	%	110.4	dry	95.9	
#42 E	Pome		-	edi		wet		
#42 C	Detili	_ 3	15.0	%	110.9	dry	96.9	
#43 N	Berm	a	111	lbs %	13363	wet		
	DOM	_ 3	14.4	lbs	113.1	dry	98.9	
#44 E	Berm	3	14.8	%	109.7	dry	95.9	
				ibs		wet		
#45 S	Berm	3	16.0	%.	111.1	dry	97.1	
				ibs		wet		
#46 S	Berm	3	14.7	%	113,1	dry	98.9	
TECHNICIAN			OFF	DIV	TEST	UNITS		
TIME: START								
CLIENT REP			Time	1 0	Day			
			Trip					
CONTRACTO	OR NOTIFIED OF RESULTS	(Y/N)	Total				1	



CLIENT: Big Iron			CLIENT	NO:		
ADDRESS: PO Box 69, Blanket, Tx, 76432				T NO: 2005	16-B	
Project: SchrieberFood				-14-2020		
AUTH: Jeff			PAGE:	2 of 2		
ieber JOBSITE INFORMATION	TEST		METHO	D	ı	REQUIREMENTS
Contr: Big Iron	DENSITY		ASTM D	2922		95
JOBSITE: Jeff	MOISTUR	E	ASTM D		=	-1 to +3
TIME:	GAUGE N	O. "	3430		· =	
REMARKS:					_	
	XISTURE / DEN		ATIONS			
M/D TEST NO. OF	MATERIA DESCRIPT			OPTIMUN MOISTUR		MAXIMUM DENSITY
1 Emb	Lt Br Silty C			15.3		113,2
2 Emb	Purple & Grey			17,4		105.4
3 Emb	Green & Grey	ALCOHOL: A CANADA CONTRACTOR OF THE CONTRACTOR O	:	15.2	-	114.4
-					- X	
TEST TEST	N-PLACE DEN M/D	MOIS.		DENS	eltv.	PERCENT
NO. LOCATION	Linee	CON		DEN		COMPACTION
EGO///ION	Lilles	CON	108	po	wet	COMPACTION
#47 E Berm	3	15.9	%	113.2	dry	99.0
	( <del>All Lie 7, 2007)</del> ))	-	lbs		wet	
#48 N Berm	3	14.3	%	114.0	dry	99.7
			lbs		wet	•
#49 E Berm	1	15.1	<b>%</b>	110.9	dry	96.9
			lbs		wet	
#50 S Berm	3	14.7	%	112.4	dry	98.3
MEA N. Daves	•	40.0	lbs		wet	
#51 N Berm	3	16.0	<u>%</u>	110.3	dry	96.4
			lbs %		wet	
West Committee of the C	-		lbs	-	dry	
			%	****	dry	
	A	· Silver	lbs		wet	
			9/4		dry	
	-		lbs		wet	William - III - III
			%	•	dry	
	*	-	lbs		wet	
to the second se			%	25 / Allinia	dry	
TECHNICIAN: J. Slone		OFF	DIV	TEST	UNIT	31
TIME: START Stop	<del></del>					
CLIENT REP:		Time				
	<del></del>	Trip				
CONTRACTOR NOTIFIED OF RESULTS (Y/N	V)	Total				



CLIE	NT: Big Iron			CLIENT	NO.		
ADD	RESS: PO Box 69, Blanket, Tx, 76432				NO: 200517	7-A	
Proje	ct: SchrieberFood	======			-14-2020		
AUTI	H; Jeff			PAGE:			
JOBS	leber BITE INFORMATION	TEST		METHOI	<u> </u>	R	EQUIREMENTS
	: Big Iron	DENSITY		ASTM D	and the state of t	17	95
	SITE: Jeff	MOISTUR	Ε.	ASTM D		-	-1 to +3
TIME: 1 Day		GAUGE N		3430		27 <del>-1-1</del>	110.0
REM	ARKS:	************		·			
		OISTURE / DE	NSITY RE	LATIONS			
M/D NO.	TEST OF	MATERI DESCRIP			OPTIMUM MOISTURE		MAXIMUM DENSITY
1	Embankment Berm	Lt Br Silty			15.3		113.2
2	Embankment Berm	Purple & Gre		***************************************	17,4		105.4
3	Embankment Berm	Green & Gre		_	15.2		114.4
		IN-PLACE DEI	NSITY TE	STS			
TEST	TEST	M/D		TURE	DENS	TY	PERCENT
NQ.	LOCATION	Linee		ITENT	pcf	• •	COMPACTION
	The second second	-		lbs		wet	
	#52 S Berm	2	18.1	%	105.4	dry	100.0
	11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			lbs		wet	
	#53 E Berm	3	14.6		102.1	dry	96,9
	#54 N Berm	•	- 10	lbs		wet	
-	WO-4 IA DOLLII		18.1		109.1	dry	95.4
	#55 E Berm	2	17.9	lbs %	103.6	wet	00.0
	144 E BOIII)		17.5	lbs	103.0	wet	98.3
	#56 S Berm	3	14.5		109.7	dry	95.9
				lbs	100.1	wet	
	##57 N Berm	3	15.8		113.0	dry	98.8
				lbs		wet	-
	#58 S Berm	3	18.5	%	111.6	dry	97.6
		-		lbs		wet	
	#59 N Berm	3	17.8		112.4	dry	98.3
	#60 E Berm	3	40.0	lbs %	440.0	wet	
	MOO E BEILL	3	16.2		110.9	dry	96.9
	#61 N Berm	3	14.5	lbs %	111.6	dry	97.6
TECH	NICIAN: J. Slone		OFF	T VIQ T	TEST	UNITS	[
	START Stop		3,7		-1501	OHIO	
	IT REP:		Time	1 1	Day		
			Trip				
CONT	RACTOR NOTIFIED OF RESULTS (Y/	W)	Total				



	NT: Big Iron			CLIENT	NO:		
	RESS: PO Box 69, Blanket, Tx, 76432			REPOR	T NO: 20051	7-B	
	ct: SchrieberFood			DATE:	-15-2020		
AUTI	d: Jeff			PAGE:	2 of 3		
JOBS	leber SITE INFORMATION	TEST		METHO	D	REQUIREMENTS	
	; Big Iron	DENSITY		ASTM D	2922		95
	SITE: Jeff	MOISTUR	RE	ASTM D	3017	***	-1 to +3
TIME	the state of the s	GAUGE N	Ю.	3430		### ###	
REMA	ARKS:						
-		ISTURE / DE		LATIONS			
M/D NO.	TEST OF	MATERI DESCRIP			OPTIMUM MOISTURE		MAXIMUM DENSITY
1	Embankment Berm	Lt Br Silty	Clay		15.3		113.2
2	Embankment Berm	Purple & Gre	y Clay	-	17.4		105.4
3	Embankment Berm	Green & Gre	y Clay	_	15.2		114.4
		N-PLACE DE	NSITY TES	sts			
TEST		M/D	MOIS	TURE	DENS	ITY	PERCENT
NO.	LOCATION	Linee	CON	TENT	pof		COMPACTION
	1700 A D		100	lbs		wet	
	#62 S Berm	3	15.0	The state of the s	109.7	dry	95.9
	#62 F Dans	•	- 12 /	lbs		wet	
	#63 E Berm	3	15.4		110.1	dry	96.7
	#64 S Berm	2	15.0	lbs	440.6	wet	00.0
	1104 0 Dellii	3	15.0	% lbs	113.6	dry	99.3
	#85 N Berm	3	16.1	%	114.1	dry	99.7
-				Ibs		wet	- 33.7
	#66 E Berm	3	16.6		110.2	dry	96.3
		-		lbs		wet	
	#67 N Berm	3	15.8		111.1	dry	97.1
			-	lbs	-	wet	
	#68 E Berm	33	15,9	%	113.1	dry	98.9
				lbs		wet	
	#69 S Berm	3	15.6	₩	114.1	dry	99.7
	470.00	_		lbs		wet	
	#70 S Berm	3	14.5	%	109.5	dry	95.8
	#71 N Berm	3	16.0	lbs %	110.4	<u>wet</u> dry	96.5
			15.0	70	110.4	Gry	80.0
	INICIAN: J. Sione	-	OFF	DIV	TEST	UNITS	3
	START Stop		-				
OLIE!	IT REP:		Time				
CONT	RACTOR NOTIFIED OF RESULTS (Y/N	es.	Trip				
JUNI	NAMED OF THE PROPERTY OF THE P		TOTAL I				T. Committee of the com



CLIENT: Big Iron			CLIENT	NO:			
ADDRESS: PO Box 69, Blanket, Tx, 76432			REPOR	T NO: 200517	7-C		
Project: SchrieberFood			DATE:	9-15-2020			
AUTH: Jeff			PAGE:	3 of 3			
ieber JOBSITE INFORMATION	TEST		METHOD 1			REQUIREMENTS	
Contr: Big Iron	DENSITY		ASTM	2922		95	
JOBSITE: Jeff	MOISTUR		ASTM D	3017	1744	-1 to +3	
TIME:	GAUGE N	0.	3430		177		
REMARKS;					-		
	STURE / DEN		ATIONS	3			
M/D TEST	MATERIA			OPTIMUM		MAXIMUM	
NO. OF	DESCRIPT			MOISTURE		DENSITY	
1 Embankment Berm	Lt Br Silty C			16.3		113.2	
	Purple & Grey			17.4		105.4	
3 Embankment Berm	Green & Grey	Clay	-	15.2		114.4	
	-PLACE DEN						
TEST TEST	M/D	MOIS'	TURE	DENSI	TY	PERCENT	
NO. LOCATION	Linee	CON.	TENT	pcf		COMPACTION	
			edl		wet		
#72 E Berm	3	15.6	₩	113.6	dry	99.3	
472 F Dade	•		lba		wet		
#73 E Berb	3	15.3	%	110.4	dry	96.5	
#74 N Berm	•	15.0	lbs	440.0	wet	***	
WALL DOUGH	3	10.0	<u>%</u>	112.2	dry	98.1	
#75 S Berm	2	18.1	lbs %	106.0	wet	400 e	
		10.1	lbs	100,0	dry wet	100.6	
#76 N Berm	2	17.8	<del>%</del>	102.6	dry	97.3	
	-		lbs	102.0	wet	91.0	
#77 S Berm	2	18.0	%	103.0	dry	97.7	
			lbs		wet		
#78 E Berm	3	15.6	%	114.4	dry	100.0	
			lbs		wet	•	
		V===0.0	%		dry		
		0	lbs		wet	7 - 10 - 700 to 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	
	-		%		dry		
			lbs		wet		
The second secon			%		dry		
TECHNICIAN: J. Stone		OFF	DIV	TEST	UNITS	T	
TIME: START Stop	==*( ==:						
CLIENT REP:	=70.5	Time					
CONTRACTOR MOTHER OF THE		Trip					
CONTRACTOR NOTIFIED OF RESULTS (Y/N)		Total					



LINER TOTAL PERFORMED 42

### IN-PLACE DENSITY TEST SERVICE ORDER

CLIENT: Big Iro				CLIENT	· NO:		
ADDRESS: PO	Box 69, Blanket, Tx, 76432				T NO: 2005	18	
Project: Schriet	berFood				9-16 & 17-202		
AUTH: Jeff				PAGE:	2 of 2		***************************************
JOBSITE INFO	ber RMATION	TEST		METHO	'n		REQUIREMENTS
Contr. Big Iron	Contr. Big Iron				2922	-	95
JOBSITE: Jeff		MOISTUR		ASTM D		13	-1 to +3
TIME:		GAUGE N		3430			100.0
REMARKS: E	ast Berm Liner					d. 11	
		MOISTURE / DE	NSITY RE	LATIONS	3		
M/D	TEST	MATERI			OPTIMUN		MAXIMUM
NO. 2	OF	DESCRIP			MOISTUR	E	DENSITY
$\frac{2}{3}$	Liner	Purple Cl			21,1		103.4
$\frac{3}{4}$ =	Liner	Purple & Gre			17.4		105.4
	Liner	Green & Gre	y Clay		15.2		114.4
		IN-PLACE DEI	NSITY TE	STS			
TEST	TEST	M/D	MOIS	TURE	DEN	SITY	PERCENT
NO.	LOCATION	Linee	CON	TENT	pq	f	COMPACTION
C D 1	0 dl 04000	_		lbs		wet	
E Berm L	iner 0 - 6" 9/16/20	2	21.2		102.1	dry	98.7
F Borm I	liner 6" - 12" 9/16//20	0		lbs		wet	
in maili	3/10//20	2	20.4	% !bs	101.6	dry	98.3
E Berm L	iner 12" - 18" 9/16/20	3	18.0		102.7	wet dry	07.4
			70.0	lbs	102.7	wet	97.4
E Berm Li	iner 18" - 24" 9/16/20	3	17.0		104.4	dry	99.1
1,000		3 <del>212222</del> 3	-	lbs	************	wet	
E Berm L	Iner 24" - 30" 9/16/20	_ 3	18.4		103.5	dry	98.2
				lbs		wet	
E Berm Li	iner 30" - 36" 9/17/20	<b>3</b>	18.1		105.2	dry	99.8
				lbs		wet	
		-		%	7-17-	dry	
				lbs		wet	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			% lbs	1)	dry	
				%	0.00	wet dry	
		-		lbs		wet	
Personal de la companya de la compan				%		dry	4
TECHNICIAN: J.	. Slone		OFF	DIV	TEST	UNIT	si i
TIME: START	Stop					A1 44 1	
CLIENT REP:			Time				
AA180			Trip				
CONTRACTOR	NOTIFIED OF RESULTS (Y	(/N)	Total				



CLIENT:	Big iron			CLIENT	NO:			
ADDRES	SS: PO Box 69, Blanket, Tx, 76432				T NO: 20051	9		
	SchrieberFood			DATE: 9	9-17 & 21-2020	)		
AUTH: J	20103.5			PAGE: 2 of 2				
JOBSITE	leber EINFORMATION	TEST		METHO	ıb	R	REQUIREMENTS	
Contr: B		DENSITY		ASTM D			95	
JOBSITE	: Jeff	MOISTUR		ASTM		-	-1 to +3	
TIME:		GAUGE N		3430			-100-0	
REMARK	S: North Berm Liner				TO A STATE OF THE	*		
		IOISTURE / DE	NSITY RE	LATIONS	3			
M/D NO.	TEST OF	MATERI DESCRIP			OPTIMUM MOISTURE		MAXIMUM DENSITY	
2	Liner	Purple Cl	and the second second		21.1		103.4	
3	Liner	Purple & Gre		-	17.4		105.4	
4	Liner	Green & Gre	MICHELOUINE	-	15.2		114.4	
				-	IV.E		117.7	
TEST	TEST	IN-PLACE DE						
NO.	LOCATION	M/D		TURE	DENSI	TY	PERCENT	
110.	LOGATION	Linee	CON	TENT	pcf	- Javak	COMPACTION	
N	Berm Liner 0 - 6" 9/17/20	3	18.4		105.4	wet dry	100.0	
N.	Demonstrate of the control			lbs		wet		
N N	Berm Liner 6" * 12" 9/17/20	4	16.0	<del>%</del>	111.1	dry	97.1	
N	Berm Liner 12" - 18" 9/17/20	0	40.0	lbs	-122	wet		
	Delin Lines 12 - 10 9/1/20	3	16.9	<del>%</del>	105.4	dry	100.0	
N	Berm Liner 18" - 24" 9/17/20	4	16.0	lbs %	110.6	wet	00.7	
•	24 011720		10.0	Ibs	110.6	dry	<u>96.7</u>	
N	Berm Liner 24" - 30" 9/18/20	4	16.4	%	114.4	dry	100.0	
				lbs	114.4	wet	100.0	
N	Berm Liner 30" - 36" 9/18/20	3	16.8	<del>%</del>	103.6	dry	98.3	
				fbs		wet		
				%	·	dry		
		-	-	lbs		wet		
				%	-	dry		
				lbs		wet	<del></del>	
				₩		dry		
				lbs		wet		
	entral de presentation par	-	***************************************	%	***************************************	dry		
	IAN: J. Slone		OFF	DIV	TEST	UNITS		
TIME: ST							-	
CLIENT R	REP:		Time					
			Trìp					
CONTRAC	CTOR NOTIFIED OF RESULTS (Y	/N)	Total					



CLIENT: Big				CLIENT	NO:			
	O Box 69, Blanket, Tx, 76432			REPOR	T NO: 2009	00		
Project: Schr	rieberFood			DATE:	9-24 825-2020	0		
AUTH: Jeff				PAGE:				
JOBSITE INF	leber FORMATION	TEST	TEST		 DD	R	EQUIREMENTS	
Contr: Big Iro		DENSITY		ASTM D			95	
JOBSITE: Je	if	MOISTUR		ASTM E		-	-1 to +3	
TIME:		GAUGE N		3430	70017	344	-1(0.0	
Address of the Contract of the	South Berm Liner							
		STURE / DE	NSITY RE	LATIONS	3			
M/D	TEST	MATER			OPTIMUN	A	MAXIMUM	
NO.	OF	DESCRIP	TION		MOISTUR	E	DENSITY	
2	Liner	Purple C	lay		21.1		103.4	
3	Liner	Purple & Gre	y Clay		17.4		105.4	
4	Liner	Dk Br Cl	ay		17.3		104.9	
		-PLACE DE	NSITY TE	<b>3TS</b>				
TEST	TEST	M/D	MOIS	TURE	DENS	YTE	PERCENT	
NO.	LOCATION	Linee	CÓN	TENT	pc	f	COMPACTION	
		<del></del>	S-100, 110, 110, 110, 110, 110, 110, 110,	lbs	N <del>ation Co.</del>	wat		
\$ Bern	n Liner 0-6"	4	17.7	%	104.1	dry	99.2	
				lbs		wet		
S berm	1 Liner 6"-12"	4	17.3	%	105.3	dry	100.4	
				lbs	\ <u></u>	wet		
S Berr	m Liner 12"-18"	4	17.3	%	102.9	dry	98.1	
			Name and the	lbs		wet		
S Berr	m Liner 18"-24"	4	17.7	%	103.1	dry	98.3	
				lbs		wet		
S Berr	n Liner 24"-30"	4	17.0		104.0	dry	99,1	
	4.4			lbs		wet		
S Berr	n Liner 30"-36"	4	18.3		103.1	dry	98.3	
			× 100	lbs		wet		
		-		%		dry		
				lbs	-	wet		
		-		%		dry		
				lbs		wet		
				%		dry		
				lbs		wet		
		Q-IIIIII		%		dry		
TECHNICIAN:			OFF	DIV	TEST	UNITS		
TIME: START		-						
CLIENT REP:			Time					
CONTRACTO	R NOTIFIED OF RESULTS (Y/N)		Trip					
CONTRACIO	r nothred of Keaulia (Y/N)	I	Total				D	

TECHNICIAN:

CIS



CLIENT: Big Iron				CLIENT	NO:		
	x 69, Blanket, Tx, 76432			REPOR	T NO: 20090	3	
Project: Schrieber	Food			DATE: 9	9-30, 10-1, 10-	2, 10-5-20	20
AUTH: Jeff				PAGE:	2 of 2		
iebei JOBSITE INFORM		TEST		METHO	D	R	EQUIREMENTS
Contr. Big Iron		DENSITY		ASTM D			95
JOBSITE: Jeff		MOISTUR	<b>.</b>	ASTM D		-	-1 to +3
TIME:		GAUGE NO	D.	3430		-	
REMARKS: Botto	om Liner E 1/3					-	
		MOISTURE / DEN		LATIONS	3		
M/D	TEST	MATERIA			OPTIMUM		MAXIMUM
NO.	OF	DESCRIPT			MOISTURE		DENSITY
2	Liner	Purple Cla	•		21.1		103.4
3 4	Liner	Purple & Grey			17.4		105.4
4	Liner	Dk Br Cla	у		17.3		104,9
		IN-PLACE DEN					
TEST	TEST	M/D		TURE	DENS	TY	PERCENT
NO,	LOCATION	Linee	CON	TENT	pcf		COMPACTION
Oatton Han	-E40 0.00 0.00	_		lbs		wet	
Bottom Line	rE 1/3 0-6" 9/30	3	17.4		105.3	dry	99.9
Battom Line	r E 1/3 6"-12" 9/30	٠	47.0	lbs		wet	
DOMOITI DINO	r E 1/3 6"-12" 9/30	3	17.0	% lbs	102.7	dry	97.4
Bottom Line	r E 1/3 12"-18" 10/1	3	18.1	10S	102.2	wet dry	97.0
	- 110 12 10 101	; <del>211 - 111 - 1</del> 3	10.1	lbs	102.2	wet	B1.U
Bottom Line	r E 1/3 18"-24" 10/1	2	20.6	-%	102.9	dry	99.5
		(**************************************	-	lbs	102.0	wet	- 00,0
Bottom Line	r E 1/3 24"-30" 10/2	2	20.7	%	102.7	dry	99.3
				lbs		wet	· · · · · · · · · · · · · · · · · · ·
Bottom Line	r E 1/3 30"-36" 10/5	2	22.0		102.8	dry	99,4
			New york of the	lbs		wet	
			Mean second	<b>%</b>		dry	
			West and account	lbs		wet	
				₩	0	dry	
				lbs	-	wet	
				<del>%</del>		dry	
				lbs %	-	<u>wet</u> dry	
TOURIOUS AS							
TECHNICIAN: J. S TIME: START			OFF	DIV	TEST	UNITS	
CLIENT REP:	Stop		Times				
~ IN			Time				
CONTRACTOR NO	TIFIED OF RESULTS (Y	7N3	Total				
	··· · ·· · · · · · · · · · · · · · ·	1115	I I VIGIL 1	T I			



ADDRESS: F	O Box 69, Blanket, Tx, 7643	2		CLIEN.	I NO:		
Project. Sch	rieberFood			REPOR	RT NO: 200	904	
AUTH: Jeff				DATE:	10-1, 10-2, 1	0-5 -2020	
	leber	-		PAGE:	2 of 2		
JOBSITE IN	FORMATION	TEST		Address to			
Contr: Big Iro	on	DENSIT	·	METHO		REQUIREMENT	
JOBSITE: Je	eff	MOISTU		ASTM			96
TIME:		GAUGE		ASTMI	J 3017	_	~1 to +3
REMARKS:	Bottom Liner W 1/3	07.000	NO.	3430		- 1	
'MUS		MOISTURE / DI	ENSITY REL	ATIONS	<u> </u>		
M/D NO,	TEST	MATER	NAL		OPTIMUI	7	5.0.0.000
2	OF	DESCRIP			MOISTUR	VI PE	MAXIMUM
3	Liner	Purple C	Clay		21.1	-	DENSITY
4	Liner	Purple & Gr	ey Clav	-	17.4		103.4
- ;	Liner	Dk Br C		-	17.3		105.4
				-	17.0		104,9
TEST		IN-PLACE DE	NSITY TES	TS			
NO	TEST	M/D	MOIST	URE	DENS	SITY	PERCENT
110	LOCATION	Linee	CONT		pc		
Bottom	Liner W 1/3 0-6" 10/1			lbs		wet	COMPACTIO
	Liner W 1/3 0-6" 10/1	3	16.9	%	102.0	dry	96.8
Bottom	Liner W 1/3 6"-12" 10/1			lbs		wet	20,0
	- 1071 - 1071	3	18.0	%	105.0	dry	99.6
Bottom	Liner W 1/3 12"-18" 10/1	9		lbs		wet	
	to red Yes	3	17.7	%	103.0	dry	97.7
Bottom	Liner W 1/3 18"-24" 10/1	2	94.4	lbs		wet	
			21.1	<u>%</u>	104.2	dry	100.8
Bottom (	Liner W 1/3 24"-30" 10/2	3	16.9	lbs %	Mary Land	wet	
	The state of the s		10.9	lbs	105.3	dry	99.9
Bottom I	Jner W 1/3 30"-36" 10/5	2	20.8	%	404	wet	
			20.0	lbs	104.1	dry	100.7
			)	9/4		wet	
	The second of th			ibs		dry	
			4101111	%		wet	
				Ibs		dry	
	- Miles and Company			%		dry	
			LL.	lbs	-	wet	-
				9/0		dry	
ECHNICIAN:	I. Slone		OFF [	387			
ME: START	Stop		UFF L	אכ	TEST	UNITS	
JENT REP:			Time				
5. B. Carran,			Trip				
INTRACTOR	NOTIFIED OF RESULTS (Y/I	M	Total				



CLIE	NT: Big Iron			CLIENT	NO:			
	RESS: PO Box 69, Blanket, Tx, 76432	<del>-112</del>			T NO: 2009	05		
Proje	ct: SchrieberFood				10-1, 10-2, 10			
AUTI	H: Jeff			PAGE:				
	ieber SITE INFORMATION	TEST	TEST		)D	R	REQUIREMENTS	
	r: Blg Iron	DENSITY		ASTM			95	
	SITE: Jeff	MOISTUR	RE .	ASTM D	3017	*****	-1 to +3	
TIME	110	GAUGE N	IO.	3430				
REM	ARKS: Bottom Liner Center 1/3							
	M	OISTURE / DE	NSITY RE	LATIONS	3			
M/D	TEST	MATERI	AL.		OPTIMUN	A .	MAXIMUM	
NO.	OF	DESCRIP			MOISTUR	E	DENSITY	
2	Liner	Purple Cl	the state of the s		21.1		103.4	
3	Liner	Purple & Gre		7. 1.	17.4		105.4	
4	Liner	Dk Br Cla	ay		17.3		104.9	
		IN-PLACE DEI	NSITY TES	STS				
TEST	TEST	M/D	MOIS	TURE	DENS	SITY	PERCENT	
NO.	LOCATION	Linee	CON	TENT	pc		COMPACTION	
				lbs		wet		
	Bottom Liner Cen 1/3 0-6" 10/1	3	17.1		103.1	dry	97.8	
	Dethanality of the off toll the	_	\ <del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>	lbs	-22	wet		
	Bottom Liner Cen 1/3 6"-12" 10/1	3	18.1		102.9	dry	97.6	
	Bottom Liner Cen 1/3 12"-18" 10/1	0	-04.0	lbs	700.0	wet		
	DOMONI LINE OEN 1/3 12 -16 10/1	2	21.8	% lbs	106.0	dry	102.5	
	Bottom Liner Cen 1/3 18"-24" 10/1	2	21.7		105.1	wet	101.0	
			A 1.1	lbs	100.1	dry wet	101.9	
	Bottom Liner Cen 1/3 24"-30" 10/2	2	21.8	%	101.8	dry	98.5	
		-		lbs	101.0	wet		
	Bottom Liner Cen 1/3 30"-36" 10/5	3	18.0		102.4	dry	97.6	
				tbs	-	wet		
		3		%		dry		
				lbs		wet		
	The state of the s	( <del>***********</del> *************************		%		dry		
				lbs %		wet		
		3. Table 1	***************************************		-	dry		
	¥			lbs %	( <del></del>	dry		
TECH	NICIAN: J. Slone		OFF	DIV	TEST			
	START Stop	•	OI F	DIV	,E31	UNITS		
	IT REP:		Time					
			Trip					
CONT	RACTOR NOTIFIED OF RESULTS (Y/I	(V)	Total					

TECHNICIAN: CUS



CLIENT: Big	Iron			CLIENT	L NO.			
ADDRESS:	PO Box 69, Blanket, Tx, 76432	-			T NO: 20090	6		
Project: Sch	rieberFood				10-1, 10-2, 10-		·	
AUTH: Jeff				PAGE:				
IODOTE IN	feber FORMATION					2.010		
Contr. Big Ir		TEST		METHO		R	EQUIREMENTS	
JOBSITE: J		DENSITY		ASTM L			95	
TIME:		MOISTUR GAUGE N		ASTM L	3 3017		-1 to +3	
REMARKS:	W Berm Liner	GAUGEN	10.	3430		1		
	MOI	STURE / DE	NSITY RE	LATIONS	2			
M/D	TEST	MATERI		EXTION.	OPTIMUM		MAXIMUM	
NO.	OF	DESCRIP	TION		MOISTURE		DENSITY	
2	Liner	Purple Cl	ay		21.1		103.4	
3		Purple & Gre	y Clay	84 K. (18)	17.4		105.4	
4	Liner	Dk Br Cl	ay	· ·	17.3		104.9	
	IN	-PLACE DEI	NSITY TE	3TS				
TEST	TEST	M/D	MOIS	TURE	DENS	ITY	PERCENT	
NO.	LOCATION	Linee	CON	TENT	pcf		COMPACTION	
	44			lbs		wet		
W Be	rm Liner 0-6" 10/1	2	21.8		105.1	dry	101.6	
W Day	rm Liner 6"-12" 10/1	•	-	lbs	-	wet		
VV Del	rm Liner 6"-12" 10/1	2	20.3	The second secon	104.7	dry	101.3	
W Bei	m Liner 12"-18" 10/1	2	20.4	lbs %	400.0	wet	455.0	
14 50	12 10 14/1		20.4	lbs	103.6	dry	100.2	
W Ber	mLiner 18"-24" 10/2	2	20.6	%	102.1	wet dry	98.7	
			- 10.0	lbs	102.1	wet	- 50.1	
W Ber	m Liner 24"-30" 10/2	2	21.0	%	103.0	dry	99.6	
			4	lbs		wet		
W Bei	m Liner 30"-38" 10/5	2	20.6		102.0	dry	98.6	
				lbs		wet	(6)	
				%		dry		
				lbs		wet		
	The second of th		-	%		dry		
				lbs		wet	A 1765	
		-		9/0		dry		
			-	lbs %		wet		
			-	₩	1 <del>1111111111111111111111111111111111</del>	dry		
TECHNICIAN			OFF	DIV	TEST	UNITS		
TIME: START CLIENT REP:			150					
OUGNI KEP			Time					
CONTRACTO	OR NOTIFIED OF RESULTS (Y/N)		Trip					
			I I CHALL					

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### ATTACHMENT 4 - SAFETY DATA SHEETS

### SDS Summary Table

CLI-MOL Closed Loop Inhibitor		BROMMAX 7.1 Water Treatment -S  Anti-Microbial	Sulfuric Acid 93% PH Adjuster	BTW – 90 Boiler Scale Inhibitor	Boiler Oxygen Scavenger	WA 26		hber
- Crassial Hydroxide - TOTO-30-3	-Molybdic Acid Disodium Səlt — 10102-40-6 -Disodium Tetra borate Decahydrate — 001303-96-4 Obtassium Hudovida — 1210 So 2	-Sulfamic Acid, N-Bromo, Sodium Salt — 1004542-84-0 -Sodium Hydroxide — 1310-73-2	-Water – 7732-18-5 -Sulfuric Acid 93% - 7664-93-9	-Water – 7732-18-5 -Sodium Hydroxide – 1310-73-2	-Water – 7732-18-5 -Sodium Hydroxide – 1310-73-2	-Water – 7732-18-5 -Aqua Ammonia – 1336-21-6	-Water – 7732-18-5 -Glutaraldehyde - 111-30-8	Chemical Composition
	Non- Persistent	Non- Persistent	Non- Persistent	Non- Persistent	Non- Persistent	Non- Persistent	Non- Persistent	Product Classification
3 E k.:	30 min.	30 min.	1 min.	3.5 hrs.	3.5 hrs.	3 hrs.	4 hrs.	Product or active ingredient half-life
Daily	Once per month	Two times weekly	Daily	Daily	Daily	Daily	Daily	Frequency of product use
-Rhippill- 1050 16 mg/1 48 Hrs	-Bluegili: LC50 1 mg/l 48 Hrs. -Mosquitofish: LC50 1.25 mg/l 96 Hrs.	No Information Available	-Bluegill (Sunfish): LC50; 48 Hrs.: 49 mg/l (Tap water, 20 deg C) -Flounder: LC50; 48 Hrs.: 100-330 mg/l (Aerated water)	-Bluegill: LC50 4 mg/l 48 Hrs. -Mosquitofish: LC50 5 mg/l 96 Hrs.	-Bluegill: LC50 9 mg/l 48 Hrs. -Mosquitofish: LC50 11 mg/l 96 Hrs.	-Acute toxicity to invertebrates: LCS0 2.94 mg un-ionized NH3-N/L 48 HrsAcute toxicity to Fish: LCS0= 0.09-3.51 mg un-iconized NH3L 96 Hrs.	-Algae Acute: ECS0 2.64 mg/l 72 HrsDaphnia Acute: ECS0 > 50 mg/l 24 HrsDaphnia Acute: EC50 17 to 25 mg/l 24 HrsAlgae Acute: LC50 0.11 mg/l 48 Hrs. Daphnia Acute: LC50 0.69 mg/l 48 Hrs. Fish Acute: LC50 10.8 mg/l 96 Hrs.	Product toxicity data for fish and aquatic invertebrate
<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	Concentration of whole product in waste stream
<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	Concentration of active ingredient in waste stream

I/6 ALGARITE 800

### SAFETY DATA SHEET

PRODUCT IDENTITY: ALGARITE 800 COMPANY IDENTITY: CCI

> REPLACES: 06/09/2012 SDS DATE: 10/23/2014

Chemical Safety Cards of the Global Hammizing System.
THIS SDS COMPLIES WITH CFR 1910.1200 (HAZARD COMMUNICATIONS STANDARD)
IMPORTANT: Read this SDS before handling & disposing of this product. This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International

Pass this information on to employees, customers, & users of this product

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: ALGARITE 800 CR4414

EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)

CANUTEC: 1-613-996-6666 (CANADA)

SDS NUMBER: COMPANY IDENTITY: COMPANY ADRESS: 3
COMPANY PHONE: 8 CCI CHEMICAL 3540 EAST 26<sup>TH</sup> STREET, VERNON, CALIFORNIA 90058 800-767-9112



# SECTION 2. HAZARDS IDENTIFICATION

HAZARD STATEMENTS:
H1005 = General, H2005 = Physical, H300 = Health, H4005 = Environmental
H301+H302 Harmful if swallowed. Toxic if swallowed.

May cause an allergic skin reaction Causes eye irritation.

May cause respiratory irritation

H317 H320 H335

PRECAUTIONARY STATEMENTS:

P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal

P280 P305+351+338 IF IN EYES: Ringe candiously with water for several minutes. Remove contact lenses if present & Do not get in eyes, on skin, or on clothing.
Wear protective gloves/protective clothing/eye protection/face protection.

easy to do – Conúnue rinsing. If exposed or you feel unwell: Call a POISON CENTER or doctor/physician

P405+102

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Store locked up. Keep out of reach of children.

Glutaraldehyde	Water	MATERIAL
111-30-8	7732-18-5	CAS#
	231-791-2	EINECS#
50	50	₩±%

2/6 ALGARITE \$00

00107

Trace components: Trace ingredients (If any) are present in < 1% concentration. (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract intragens, and sensitizers). None of the trace ingredients contribute significant Additional learnets at the concentrations that may be present in this product. All pertinent hazards information has been provided in this document, per the requirements of the Federal Occupational Stafey and Health Administration Standard (23 CFR § 910.1200), U.S. State equivalents, and Caracillan Hezardous Materials Identification System Standard (CPR 4).

### SECTION 4. FIRST AID MEASURES

### EYE CONTACT:

If this product solers the eyes, open eyes, while under gently running water. Use sufficient fatce to open eyelids. Roll eyes to expose more sufface, Minimum flushing is for 15 minutes. Seek immediate medical attention.

### SKIN CONTACT:

If the product contaminates the skin, internediately begin decontamination with running water, <u>Minimum</u> flushing is for 15 minutes. Remove contaminated clothing, taking care not to contaminate eyes. If skin becomes irritated and irritation persists, medical attention may be necessary. Wash contaminated clothing before reuse, discard contaminated shoes.

### INHALATION:

Move person to fresh air, if effects occur, consult a physician

### SWALLOWING

If swallowed, CALL PHYSIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, give two glasses of water to drink. DO NOT INDUCE VOMITING. Never induce vomiting or give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek

### NOTES TO PHYSICIAN:

Should be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Any material aspirated during comiting may cause lung injury. Therefore, emesis

attention, if necessary. Take a copy of the label and SDS to physician or health professional with victim. Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical

## SECTION 5. FIRE FIGHTING MEASURES

FIRE & EXPLOSIONS PREVENTIVE MEASURES:

### EXTINGUISHING MEDIA

Water, Water spray, foam, carbon dioxide (CO2). Dry powder

## SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

# UNUSUAL EXPLOSION AND FIRE PROCEDURES

3/6 ALGARITE 200

### FLASH POINT: >100°C (212°F)

### AUTOIGNITION TEMPERATURE: N/A

# SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS: Uncontrolled releases should be responded to by trained personnel using pre-planted procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with

### ENVIRONMENTAL PRECAUTIONS:

PERSONAL PRECAUTIONS:
Spilled material may cause a slipping hazard, Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment.

CONTAINMENT AND OLDAN-UP MEASURES: Absorb spilled liquid with poly pads or other suitable absorbent materials. Clean up with non-combustible absorbent (such as sout, soil, and so on). Showel up and place dil spill rective in suitable constitues. Dispose of at an appropriate waste disposal facility according to current applicable two and regulations and product characteristics at time of disposal (see Section 12- Disposal Considerations). Stop spill at source. Construct temporary olikes of drift, sand, or any appropriator readity available material, to prevent spreading of the material. Close or cap valves and/or block or plug hole in lexicing container and transfer to another container, keep from entering storm sewers and dictate which lead to waterways; and if necessary, call the local fire or police department for immediate emergency assistance.

## SECTION 7. HANDLING AND STORAGE

thoroughly after handling. Product shipped/handled hot can cause thermal burns. Avoid confact with skin, eyes and clothing. Wash

Preezing will affect the physical condition and may damage the material. Keep in a dry cool place (0-30°C). Keep away from heat and sources of ignition.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL CAS# CEILING STEL (OSHJA	Not Established	7732-18-5 None Known	-
(OSHAJACGIH) HAP	0.2 mg/m3	None Known	TLV (ACGIH)
CAS#		111-30-8 Not Established	7732-18-5 None Known 111-30-8 Not Established

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

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## RESPIRATORY EXPOSURE CONTROLS:

A respiratory protective program that meets OSHA CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

VENTILATION:
LOCAL EXHAUST: Recommended MECHANICAL (General): Recommended LOCAL EXHAUST: None
OTHER: None
None A Manual of Recomment Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

PERSONAL PROTECTION:

Wear OSHA, Standard full face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.

### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wesh stations & safety showers. Wash at the end of each work shift & before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or diseare contaminated clothing.

# SECTION 9. PHYSICAL & CHEMICAL PROPERTIES:

## SECTION 10. STABILITY & REACTIVITY

### Stable under most conditions

CONDITIONS TO AVOID: Isolate from extreme heat, and open flame.

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S/6 ALGARITE 200

MATERIALS TO AVOID: Strong acids, strong oxidants.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION II. TOXICOLOGIGAL INFORMATION

LD50 Oral: 320 mg/kg Rat
LD50 Dermal >2000 mg/kg Rabbit
LC50 inhalation 0.28 mg/L (4 hours) Rat

CONDITIONS AGGRAVATED: None Known.

#### CHRONIC HAZARDS

CHRONIC TOXICITY:

In animals, effects have been reported on the following organs after ingestions: Gastrointestinal tract, beart, and kidney. Does levels producing theses effects were many time a strong association between elevated blood pressure and prolonged dietary overuse. Related effects could occur in the kidneys.

CARCINOGENICITY:

This product is not classified as a careinogen by NTP, IARC or OSHA.

MUTAGENIC DATA:

In vitro genectic toxicity studies were negative.

DEVELOPMENTAL TOXICITY:

Did not cause birth defects or any other fetal effects in laboratory animals.

## SECTION 12. ECOLOGICAL INFORMATION

AQUATIC TOXICTTY:
This product may be toxic to fish and equatic organisms. Keep product from entering waterways and water sheds.

48-Hour LC50 in Invertebrates:

Daphnia manga: 10-100 mg/L

96-Hour ECSO/LCSO in Invertebrates:

Mysid shrimp 96-Hour LCS0 in Fish: Crassostrea virginica (oyster) 0.75 mg/L Mysid shrimp 5.5 mg/L

Trout/Sunfish/Sheepshead minnow Gloden orfc 7/தீய 001-01 7/தீய 65-01

Avian Dierzry LC50:

Bobwhite quail Mallard ducks >5000 ppm >5000 ppm

Avian Acute Oral LD50:

Maliard ducks 0.73 ml/kg

Acute Toxicity in Plants, 72-hr EC50:

T/8m 0.1-1.0

SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

ODITIDG SHIP NAME: UN2522, Corrosive Liquid, Toxic, N.O.S. (Gluzarddelyde), 8, (6.1), PG, III.

DRUM LABEL: UR2522, Corrosive Liquid, Toxic, N.O.S. (Gluzarddelyde), 8, (6.1), PG, III.

LATA, ICAO: UN2522, Corrosive Liquid, Toxic, N.O.S. (Gluzarddelyde), 8, (6.1), PG, III.

IMO / IMDG: UN2522, Corrosive Liquid, Toxic, N.O.S. (Gluzarddelyde), 8, (6.1), PG, III.

EMERGENCY RESPONSE GUIDEBOOK NUMBER 154



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5/5 ALGARITE 800

7/6 ALGARITE 300

## SECTION IS. REGULATORY INFORMATION

SARA (Superfund Amendments and Reauthorization Act)
SARA 302 Extremely Hazardous Substances List, No components of this product are listed.

SARA 312 Hazard Category Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

SARA 313 Toxic Chemical List

No components of this product are present above the de minimus levels.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)
No components of this product are present above the de minimus levels.

RCRA (Resource Conversation and Recovery Act) Listed Hazardous Waste No components of this product are listed.

CWA (Clean Water Act) Listed Substances No component of this product is listed.

FDA (Food and Drug Administration)

This product is approved under the following FDA (21CFR) sections: 173.220, 175.103, 176.170, 176.180, 176.200 Limitations 176.170, 176.180: For use only as an administration and injurent and filler sturries used in the manufacture of space and psychological diveks not to exceed 500 pants per million by weight of the slurry solids. For 173.320: For use as a single additive for beet-sugar mills not more than 250 ppm.

TSCA. TSCA (Toxic Substances Control Act) Applicability

All components are listed on the TSCA Inventory. Registered pasticides are exempt from the requirements of

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act)
This product is a registered pesticide. EPA Reg. No. 1448-354-65517

HAZARD RATINGS:
HEALTH (NFPA): 3. HEALTH (HMIS): 3, FLAMMABILITY: 1, PHYSICAL HAZARD: 0
(Personal Protection Rating to be supplied by user based on use conditions.)
This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating system.

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#### NOTICE

obtained or the safety and toxicity of the product nor does C.C.I. assume any liability arising out literature may be available upon request. Since actual use by others is beyond our control, no warranty, express or implied is made by C.C.I. as to the effects of such use, the results to be toxicity and suitability of his own use, handling and disposal of the product. Additional product C.C.I. makes no warranty, representation or guaranty as to the accuracy, sufficiency or based upon data obtained from the manufacturer and/or recognized technical sources; however, of use by others of this product. completeness of the material set forth herein. It is the user's responsibility to determine the safety, All information, recommendations, and suggestions appearing herein concerning this product are

Product #: 25788 Name: AQUA AMMONJA 26 DEG (29.4%) Desc: (DOT-SP11886) From BRENNIAG SUTHWESTING ನ Thursday, September 11, 2014

BREATING SOUTHWEST PRODUCT IDENTITY: AQUA AMMONIA 26 DEG BE MSDS 4: 9879A7 NEW MSDS DATE: 03/31/2011

DATE: 03/21/11 PAGE 1 OF 5

#### MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY: AOUA AMMONIA 26 DEG SE COMPANY IDENTITY: BRIMWING SOUTHWEST COMPANY ADDRESS; 510 FIXEUR ROAD COMPANY CITY: LOWDITEN,TX 75604 COMPANY PROPER: 1-903-795-7151 CHEMITEC PHONE: 1-903-024 9300 This vactorial Safety Data Short contours to the requirements of AMET 2400.1.
THIS WINDS CONTINUE WITH 22 CTH 1910.1200 (NOTION COMPUTATION STANDARD)
THYSOKENATT, And this KINSD before theidling 4 cthappointy of this product.
Page this information on to employees, custometra, & users of this product. SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

SECTION 2. COMPOSITION/INFORMATION ON INCREDIENTS

#### CONTAINS: 65 75% WATER (7732 18 5) 20-30% AQUA AMMONTA (1336-21-6) SECTION 3. HAZARDS IDENTIFICATION

#### 561 826 845 \$36/37/39 Causes burns. Irritacing to the respiratory system. Skerny system with eyes, since samediately with picray of water and each extend before a feet of action of content with eyes, since samediately with picray of water and each excitable before in sects of actions, or if you fore inspects. In case of actions, or if you fore inspects in sects of actions, or if you fore inspects in the procession of the maintenance sector to be actionable to the action of the sector of the s RISK STATEMENTS: SECTION 4. FIRST AID MEASURES

FOR CONTACT:

FOR TOWARD:

STR (TATACT:

IN case of contact with drin immediately remove contaminated clothing.

In case of contact with drin immediately remove contaminated clothing before Keuse.

NALLIFECTURE:

THE PROPERTY STREET CONTACT TO STREET TO STREET THE STREET TO STREET THE STREET TO STREET THE S

(IAP) R [12NT]. White Bostmag believes the information contained bettern to be accurate. Externity gradies no expresentation or warranty express or universit, regarding, and assumes to lability for, the accuracy or conspectation of the information. The thirty assumes all responsibility for handlang, using and or excelling the fermion in assertance with the applicable federal, state, and local law. The MSDS stall not in using way, limit or psychological the operation and effect of any or it the provisions of Entening's terms and conductes of side.

#### From BRENNIAG SOFT HWEST NO Product = 25768 Name: AQUA AMMONIA 26 DEG (29.4%) Desc: (DOT-SPHR86) 爿 Thursday: Septen ber 11, 2014

BREANTAG SOUTHWEST FRODUCT IDENTITY: AQUA AMMUNIA 26 DGG BE MAJS 4: 917587 NEW MSDS DATE: 01/31/2011 DATE: 03/31/11

SECTION 5. FIRE FIGHTING MEASURES

excinguishers (Carbon Diexide or Foam) for Class III3 liquid fires

NEDY Class B excited

SPECIAL TIZE FIGURING PROCESURES

Maker spray may be ineffective on thre out can protect fire-fighters

A cool closed constainers. Use fog nozales af water is used;

O mot enter constained thre-space victors full burker goar.

Welmet with facer shield-bunker coast glowes furber thooses;

Use MIOSH approved positive-pressure self-contained breathing apparatus.

UNUSUAL EXPLOSION AND FIRE PROCEDORES STICKLY COMPOSITORS

Keep container tightly closed to the Chame. Isolake Ltm oxidizers, acids heat, a open Chame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Continue all lakel precontinue:

SECTION 6. ACCIDENTAL RELEASS REASURES

Scop apill at source | Dike area 4 contain

CHARA-UP PROGRAMES:

Neutralize with weak said ( dilute with plenty of water, Pump spalled liquid kept contaminated soliin DOT approved containers (or dispess) label insertiscity. Clean up remainder with absorbert meterials. Wet down with planty of water f zerow numerisately.

SECTION 7 BANDLING AND STORAGE

NANDLING TSolate (Tone oxidizers, wrids, heat, & open flame, by vapor or spray mist too only with adequate westhlation. Avoid breathing of wapor or spray mist too not get in eyes, on skin or clothing.

West OSNA Standard this face shield Consolt Safety Equipment Supplied West Gloves, open & foother impurvious to this meterial, West clothing before these. d free fall of liquid. Ground containers when transferring. Do not fleme brase, or weld, Continue all land precautions:

STORAGE Men using, loosen bung slowly to relieve pressure. When using, loosen bung slowly to relieve pressure in convertee mode only class file liquids. Keep container rightly clased to the province role in uping the not in use to prevent leakage, a uprignt when not in use to prevent leakage. A uping lease shield, shower it full proceeding when appaining was full feet shield, shower is full proceeding the province of the proceeding the proceeding when appairing when appairing when appairing when appairing when appairing when the proceeding the proceeding the proceeding when appairing when appairing when appairing when appairing when appairing when appairing the proceeding the proceeding

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INDERTANT. While Beignes believes the information contained herein to be accounted. Bernning makes no representation or writtenty express or implied, organizing, and destinates to be ability for, the accountry or completaness of the information. The Boyce assumes at responsibility for installing using another reading the Product in accordance with the applicable federal state, and local few. This MISTS that not in any way first or preclude the operation and effect of any of the provisions of Brannag's terms and conditions of sale.

#### Product #: 25768 Name: AQCIA AMMONIA 26 DEG (29.4%) Desc: (DOT-SPIISM) BRENNTAG SOLT HWEST NO 討 Thursday, September 11, 2014

APT PROCESS (0 44 LEGGE) :

PROUNTS (0.4.10% TO 1:

TOTAL VOC'S (1400) TO 1:

NOAMDOUS ALE POLUTIANTS (1405) IN 1000 DENERTY (1405) IN 10 RECEATION (GENERAL)
RECHANICAT (GENERAL)
RECHANICAT (GENERAL) STABLITY

SCANDING

COMMUTICATE AND DE

LEPLATE Érom exidéiens, acids, beart, & open flame.

MATERIALS TO ANDIT

LEPLATE Érom atrong exidéiens such as permangabates, thromates & permangabates, thromates, APPLANANCE LIVER LANGE:

APPLANANCE LOOK 1

APPLANANCE LOOK 177 217 2

AUTO IGNITION TEXPESSATURE:

APPLANANCE LEVEL IN AIR (% by vol):

FLASS POLITY (EETS MERTON):

FLASS POLITY (EETS MERTON):

FLASS POLITY (EACST MERTON):

APPLANANCE LIVER LIVER COMPONENCI

BANTI (% 0 7):

APPLANANCE LIVER LIVER COMPONENCI

APPLANANCE COMPONENCI

APPLANANCE LIVER LIVER COMPONENCI

APPLANANCE LIVER LIVE PERSONAL PROTECTIONS: Wear OSEA Standard full face shield. Consult Safety Equipment Supplier, Wear ploves; apren & footwear impervious to this material. Which clashing before reuse. EXPOSURE CONTROLS
Ventilate to Keep vapors of this material below 15 pcm.
Ventilate to Keep vapors of this material below 15 pcm.
If over TUV is accordance with 29 CFR 1910:134.
Use NIDSH approved positive-pressure self-contained breathing apparetus.
Consult Safety Equipment Supplies Use explosion-proof equipment. whome a mydramic plantifics:

Provide readily accessible eye wash stations a safety showers;

Provide readily accessible eye wash stations a safety showers;

Rest at a most of each workshift eye wash stations.

Properly remove clothing that becomes contaminated, Design you contaminated testing and the state articles. Launder or discard contaminated clothing BREWNIAG SOUTHWEST PRODUCT IDENTITY: KSDS \*: 987987 SECTION A EXPOSURS CONTROLS/PERSONAL PROTECTION: NOW AMMONIA 26 DEG SE
NEW MSDS DATE: 03/31/2011 SECTION 10. STABILITY & REACTIVITY SECTION 5 PHYSICAL DATA 0.000 

IAM M. [247] While Rectainals believes the information contained better to be accurate, Brenniag makes no representation or warrainty express or impleed, regarding, and accurate, no lability for, the accurate or completeness of the information. The Buyer assumes all responsibility for bandling, using antic or resisting the Product in accordance with the applicable federal scale, and local law. Thus MSIXS do line in any way, but or proclude the operation and effect of any of the provisions of Brenniag's terms and continuous of sale.

Product = 25768 Nume: AQUA AMMONIA 26 DEG (29.4%) Desci (DQT-SY11886) BRENNTAG SOTHWEST NO 취 Thursday: Septom ber II. 2014

From

SECTION 13 DISPOSAL CONSIDERATIONS
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IMPORTANT. Whise Breumag behaves the information contained herem to be accurate. Breuntag makes no representation or warranty express or mpford, regarding, and assumes no behing for, the accuracy or completions of the information. The Buyer assumes at responsibility or model, regarding, and sendors not give the reformation and earlies or Theorem The MISEs at I not in any way bind or preclude the operation and effect of any of the provisions of Breuntag's terms and conditions of sale

Recymis / dispose of observing national, regional state, bealth, safety a pollution love.

If questions exist, contact the appropriate accrete.

provincial

gnd

#### Product =: 2768 Name: AQUA ANMIONIA 26 DEG (29.4%) Desc: (DOF-201826) From BRENNIAG SUF HWEST NO 衧 Thursday Septomber 11 2014

DEMODRAT ARSON CARDOLL SOLUTIONS, A CHARGE THE PARTY IN THE PARTY SELECTION CARDOLL SREAWIAC SOUTHWEST PRODUCT IDENTITY: MSDS #: 987967 : Aumonia Solutions. 8. UNZ672, PG-III
Seifer shapping came if in a comtainer of over AQUA AMXONIA 26 DEG BE NEW MSDS DATE: 03/31/2011 SECTION 14. TRANSPORT INFORMATION 3400 pounds PACE 5 OF 5

EPA REGULATION: SARA SECTION 311/312 PATARDS: Acute Health

SECTION 15. NEGULATORY INFORMATION

All components of this product are on the TSCA life.

This material contains no Moone products restricted under SNAA Ticle III.

Section 113 in accounts Wester or Grapt to 10.

SARA TITLS III INGREDISHTS Aqua Ammonia CAS1 WT. % (REG. SECTION) 27 (311.312) 1000

STATE REGULATIONS: Product is not subject to California Prop 55. 3400 EQUADS OF THIS PRODUCT IS IN ONE CONTAINER THE TWO OF PHYSNOLY IS EXCEPTED.

SECTION 16. OTHER INFORMATION

FAIARD RATINGS: MEALTH (NFPA): 3 MEALTH (MMIS): 3 FLAMMABILITY: 1

This information is intended solely for the use of individuals trained in the NFTA t PMTS basard rating systems

EXPLORED FINITHING
Explayed simple be made every of all hazards of this material (as stated in this HIM) before handling it.

The supplies discising all sypropers of such as a section of the supplies of supplies and supplies of supplies of the supplies

IMPA 8 FANT. White Breigning behaves the information contained herein to be accounted. Breigning makes no representation or warrantly express or implied, regarding, and assumes no fability for the accounter to the information. The flagrent assumes at responsibility for the continue, are made to the fability of the factors of the accounter or the fability of the factors, and the labs. The MSINS shall not in our ways limit or proclams of the continue of the fability ways limit or proclams in the operation and effect of any of the processor of factors and continues of educations.

1/9 BWT-20

### SAFETY DATA SHEET

COMPANY IDENTITY: CCI PRODUCT IDENTITY: BWT-20 SDS DATE: 08/24/2017 REPLACES: 01/22/2014

Chemical Safety Cards of the Global Harmonizing System. This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International

Pass this information on to employees, customers, & users of this product. THIS SDS COMPLIES WITH CFR 1910.1200 (HAZARD COMMUNICATIONS STANDARD) IMPORTANT: Read this SDS before handling & disposing of this product.

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

SDS NUMBER: PRODUCT IDENTITY: BWT-20 CRS

COMPANY IDENTITY: CCI CHEMICAL
COMPANY ADRESS: 3340 E.XST Z6<sup>TM</sup> STREET, VERVON, CALIFORNIA 90058
COMPANY ADDRESS: 0340 E.XST Z6<sup>TM</sup> STREET, VERVON, CALIFORNIA 90058
COMPANY PHONES: CHEMTREC: 1-500-424-9300 (USA)
EMERGENCY PHONES: CHEMTREC: 1-500-424-9300 (USA)

CANUTEC: 1-613-996-6666 (CANADA)

SECTION 2. HAZARDS IDENTIFICATION

DANGER!!





#### EXPOSURE PREVENTION:

H100s = General, H200s = Physical, H300 = Health, H400s = Environmental HAZARD STATEMENTS:

H314 H290 May be corrosive to metals.

Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENTS:
P100s = General, P2100s = Prevention, P200s = Response, P400s = Storage, P500s = Disposal
P262
P262
Wear protective gloux/spotective clothing/bys protection/face protection.
P305+351+338 IF IN EYES; Rinse cautiously with water for several minutes, Remove contact lenses if present &

easy to do — Continue rinsing.
If exposed or you feel unwell: Call a POISON CENTER or doctor/physician Store locked up, Keep out of reach of children.

P405+102

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

7732-18-5	Hydroxide 1310-73-2	CAS#
231-791-2	215-185-5	EINECS#

Trace components: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential cardinogens, reproductive texting, experience respiratory was managens, and sansitizers). None of the trace ingredients contribute significant Additional heards as the concurrentions that may be present in this product. All performs bazed information has been provided in his document, per the requirements of the Federal Occupational. Safety and Health Administration Standard (2% CFR, 1910, 1200), U.S. State equivalents, and Canadian Hazardous Materials (demification System Standard (CPR 4).

### SECTION 4. FIRST AID MEASURES

EYE CONTACT:

EYE CONTACT:

If his product enters the eyes, open eyes while under gondy running water, Use sufficient force to open eyelids.

Kall eyes to expose more surface. <u>Minimum</u> Bushing is for 15 minutes. Seek immediate medical anention.

#### SKIN CONTACT:

If the product contaminates the skin, immediately begin decontamination with rurning water. Minimum fitshing is for 13 minutes. Remove contaminated citability, taking care not to contaminate eyes, if skin becomes inflated and irritation persists, medical attacked may be necessary. With contembated electing before reuse, distant contaminated shoes.

#### PHALATION

After high response expenses, remove to fresh air. If it is suspected that the function earstill present, the reducer should wear or appropriate mass or edificions since breathing appearant. Seep person wome and at rest, breathing is difficult, give exagger. If breathing has expende, trained personnel should immediately begin artificial tespiration, it may be dangearous to the person providing said to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medicial extension immediately. Maintain as open alway. Loosen light clothing such as for 48 hours. a collur, tie, bet er weistband. If the heart has stopped, trained protennel should immediately begin cardiopulmonary resuscitation (CFR). Seek immediate medical attendon, in case of inhabition of decomposition products in a first, symptoms may be delayed. The exposed person may need to be Reps under medical surveillance

SWALLOWING If smallowed, CALL PHYSIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice it not available, give two glasses of water to drink. DO NOT NODICE VOMITING, Neves induce ventiling to give tiquids to semeone who is unconstitute having convulsions, or mable to swallow. Sask immediate medical attention.

#### NOTES TO PHYSICIAN

There is no specific anticole. Trestment of overexposure should be directed at the control of symptoms and the clinical condition of the postern. Any material applicated during vomitting may cause lung injury. Therefore, amenis Should be induced mechanically or pharmacologically. If it is considered necessary to creature the scorach contents, this should be done by means least likely to cause aprication (such as: Ozeric lavage after endocrached).

Victims of chemical expense must be taken for modical anomen, Resource should be taken for modical attention, if necessary. Take a copy of the label and SDS to physician or health professional with victim.

### SECTION 5. FIRE FIGHTING MEASURES

FIRE & EXPLOSIONS PREVENTIVE MEASURES.

Isolate from extreme heat and open flame

#### EXTINGUISHING MEDIA

tazic and flammable gas that may form emplosive mixtures in air. In case of fire in surroundings, all extinguishing agents allowed. Contact with acids gives off hydrogen sulfide, a

2/9 BWT-20

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### SPECIAL FIRE FIGHTING PROCEDURES:

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive-pressure scifcontained breathing apparatus

# UNUSUAL EXPLOSION AND FIRE PROCEDURES:

Noncombustible

Applying to hot surfaces requires special precautions. Closed containers may explode if exposed to extreme heat.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS:

Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with

PERSONAL PROTECTIVE EQUIPMENT:

The proper protective equipment for incidental selesses (such as: ) Lines of the gradual released in a wellwentland area, use impérmeable gloves (triple-gloves, notiber gloves and nitrie gloves, over latex gloves),
yeggles, face shield, and appropriate body protection, is the event of a large release, use impermeable gloves,
yes fine for the material handlest, chemically resistant ruit and boots, and hard but Self-Contained Breathing
yes fine for the material handlest, chemically resistant ruit and boots, and hard but Self-Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, solver NIOSH-AISHIA approved based on actual or potential authorise concentrations in accordance with least OSHA and/or ANSI recuramentations.

### ENVIRONMENTAL PRECAUTIONS:

the local fire or police department for immediate emergency assistance. Stop spill at source. Construct temporary dikes of dirt, sand, or zny appropriate readily available material to prevent spreading of the material. Close or cap valves and/or block or plug hole in leaking container and transfer to another container, keep from entering storm servers and ditables which lead to waterways, and if necessary, call

### CONTAINMENT AND CLEAN-UP MEASURES:

buffering charmal (actid with soda acti et base with phosphonic acid), and test area with itimes paper to confirm neutralization. Clean up with non-combustible absorbent (such as; samd, soil, and so on). Shovel up and place all spill residue in suiteble containers. Dispose of at an appropriate waste disposal facility according to current spill residue in suiteble containers. Dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal (see Section 13- Disposal Absorb spilled liquid with poly pads or other suitable absorbent materials. If necessary, neutralize using suitable

### SECTION 7. HANDLING AND STORAGE

#### HANDLING

Use only with adequate ventilation. Do not get in eyes, on skin or clothing. Wear OSHA Standard full face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.

STORAGE: 4/9 BWT-20

Keep separated from strong oxidants, strong acids, metals, food & feedstuffs, Keep dry.

Do not store above 49 C120 F. Keep container tightly closed & upright when not in use to prevent leakage.

Wear full face shield, gloves & full protective clothing when opening or bandling. When empty, drain completely,

#### NONBULK: CONTAINERS:

Store containers away from incompatible chemicals (see section 10, Stability and Reactivity). Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Empty containers should be handle with care. Never store food, feed. Or drinking water in containers which held this product. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in a secondary containers or in a diked area, as appropriate.

#### BULK CONTAINERS:

pipelines which contain this product. Report all leaks immediately to the proper personnel All tanks and pipelines which contain this material must be labeled. Perform routine maintenance on tanks or

#### TANK CAR SHIPMENTS:

equipment must be inspected, prior to each use. Loading and unloading operations must be attended, at all times. Tank cast must be verified to be conrect for receiving this product and be properly prepared, prior to starting the transfer operations. House must be verified to be in the correct positions, before starting transfer operations. As sample (if required) must be taken and verified prior to starting transfer operations. All lines must be blown. down and purged before disconnecting them from the tank car vessel. Tank cars carrying this product should be loaded and unloaded in strict accordance with tank-car manufacturers
Recommendations and all established on-site safety procedures. Appropriate personal protective equipment must
be used (see Section 8, Engineering Controls and Personal Protective Equipment). All loading and unloading

# PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:

Follow practices indicated in section 6 (Accidental Release Measures), Makes ure certain application equipment is locked and tagged-out stelly. A lways use this product in areas where a dedquate vernications is provided. Collect all rinstates and dispose of according to applicable Federal, State, Provincial, or local procedures.

# SECTION S. EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL Sodium Hydroxide	MATERIAL Sodium hydroxide Wzter
CAS# 1310-73-2	CAS# 1310-73-2 7732-18-15
EIENECS# 215-185-5	EINECS# 215-185-5 231-791-2
CEILING STEL (OSHA/ACGIH) 2 ppm None Known	TWA (OSHA) None Known None Known
ACGIH) HAP	TLV (ACGIH) None Known None Known

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

### RESPIRATORY EXPOSURE CONTROLS:

A respiratory protective program that meets OSHA CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

VENTILATION:

579 BWT-23

Please refer to ACGIH document, "Industrial Vertilation, A Manual of Recommended Practices", most recent edition, for details. SPECIAL: LOCAL EXHAUST: Necessary None OTHER: MECHANICAL (General): Necessary

PERSONAL PROTECTION:

Wear OSHA Standard full face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse

WORK & HYGIENIC PRACTICES:

eating, smoking or using the toiler. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles, Launder or diseard contaminated clothing. Provide readily accessible eye wash stations & safety showers. Wash at the end of each work shift & before

# SECTION 9. PHYSICAL & CHEMICAL PROPERTIES:

POUNDS/GALLON: GRAVITY @ 68/68F / 20/20C: SPECIFIC GRAVITY (Water = 1): UPPER FLAMMABLE LIMIT IN AIR (% by voi): VAPOR PRESSURE (mm of Hg)@20 C: EVAPORATION RATE (n-BUTYL ACETATE=1): FLAMMABILITY CLASSIFICATION: MELTING POINT/FREEZING POINT: BOILING RANGE (IBP, 50%, Dry Point): AUTO IGNITION TEMPERATURE: PARTITION COEFFICIENT (n-Octane/Water): WATER SOLUBILITY  $VAPOR\ DENSITY\ (air = 1)$ FLASH POINT (TEST METHOD): ODOR THRESHOLD: DECOMPOSITION TEMPERAURE: LOWER FLAMMABLE LIMIT IN AIR (% by vol): pH (1% Solution): APPEARANCE: Not Applicable Not Available Complete Not Available Not Available N/A Not Applicable Non-Combustible Not Applicable 10.42-10.67 Not Applicable Not Applicable 1.25-1.28 Not Available 10-12 Water clear liquid Mild odor Not Available

### SECTION 10. STABILITY & REACTIVITY

Stable under most conditions

CONDITIONS TO AVOID:

MATERIALS TO AVOID:

Isolate from extreme heat, and open flame.

The substance is a strong base, reacts violently with acids and is corrosive. Reacts violently with strong acids.

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HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERIZATION:

SECTION 11. TOXICOLOGIGAL INFORMATION

ACUTE HAZARDS

EYE & SKUN CONTACT:

Severe burns to exis, defatting, dermatritis.
Severe burns to exist, reddess, rearing, and blurted vision.

Liquid can cause severe skin & eye burns. Wash thoroughly after handling

Severe respiratory tract inflution may occur. Vapor harmful.
The applicable occupational exposure limit value should not be exceeded during any part of working exposure.

INHALATION:

SWALLOWING: Harmful or fatal if swallowed.

SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED: None Known.

CHRONIC HAZARDS

CANCES, REPRODUCTIVE & OTHER CHRONIC HAZARDS:
This product has no carrinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date
Greater or equal to 0.1%.

IRRITANCY OF PRODUCT: This product is irritating to contaminated tissue.

SENSITIZATION TO THE PRODUCT: No component of this product is known to be a sensitizer.

MUTAGENICITY: This product is not reported to produce mutagenic effects in humans.

EMBRYOTOXICITY: This product is not reported to produce embryotoxic effects in humans.

TERATOGENICITY: This product is not reported to produce teratogenic effects in humans

REPRODUCTIVE TOXICITY: This product is not reported to cause reproductive effects in humans.

propagate through generational lines. An <u>embrorissi</u>n is a chemical which causes damage to developing embryo (such as willin the eight words of programacy in humans), but the damage does not propagate across generational lines. A <u>remover</u> is a chemical which causes damage to a developing fout, but the damage does not propagate across generational lines. A <u>remodernity toxin</u> is any substance which interfers in any way with the reproductive A munagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will

MAMMALIAN TOXICITY INFORMATION

7/0 SWT-20

TOXICITY DATA: Toxicology information for components > 1% concentration is given below:

SODJUM HYDROXIDE: Eye irritancy (monkey): Eye irritancy (rabbit): Eye irritancy (rabbit): 1%, 24 hours (severe)
500 ml, 24 hours (severe)
1% solution (severe)

Eye imitancy (rabbit): l mg, 24 hours (severe)

Cytogenic analysis system LD50 (interperoneal, mouse): LDLO (oral, rabbit): (grasshopper parenteral): 20 mg 40 mg/kg 500 mg/kg

LD50 – Dose that is lethal to 50% of a given species by a given route of exposure. LC50 – Air concentration that is lethal to 50% of a given species in a given period of time.

LDLO —Lowest Irthal dose in a given species by a given route of exposure.

# SECTION 12 ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

This product may be harmful or fixed to plant and onlined life if released into the environment.

Refer to section 11 (Toxicological information) for further data on the effects of this product's components on test

EFFECT OF MATERIAL ON AQUATIC LIFE: SODIUM HYDROXIDE: LC100 (Cyprimus carpio): 180 pp Tum (bluegill): TLm (mosquite fish): 180 ppm/24 hours 25 C 125 ppm/96 hour (fresh water) 99 mg/L/48 hour (tap water)

MOBILITY IN SOIL:

Mobility of this material has not been determined.

DEGRADABILITY:

This product is completely biodegradeble

ACCUMULATION:

Biozecumulation of this product has not been determined.

### SECTION 13. DISPOSAL CONSIDERATIONS

national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate Processing, use or contamination may change the waste management options. Recycle / dispose of observing

SECTION 14, TRANSPORT INFORMATION

DOT/TIDG SHIP NAME: UN1824, Sodium hydroxide solution, 8, PG-U DRUM LABEL: (CORROSIVE)
LATA / JCAO: UN1824, Sodium hydroxide solution, 8, PG-II IMO / IMDG: UN1824, Sodium hydroxide solution, 8, PG-II

LATA / JCAO: UN1824, Sodium hydroxide solution, 8, PG-JI IMO / IMDG: UN1824, Sodium hydroxide solution, 8, PG-JI EMERGENCY RESPONSE GUIDEBOOK NUMBER 154





## SECTION 15. REGULATORY INFORMATION

EPA REGULATIONS: SARA SECTION 311/312 HAZARDS: Acute Health

ALL components of this product are on the TSCA list.

SARA Tale III Section 313 Supplier Notification
This product contains the indicated < > toxic chemicals subject to the reporting requirements of Section 313 of
this product contains the indicated < > toxic chemicals subject to the conceptory Patrains & Community Replication Act of 1986 & of 40 CFR 372.
This information must be included in all MSDSs than are copied and distributed for this natural.

This information must be included in all MSDSs than are copied and distributed for this natural.

SARA TITLE III INGREDIENTS CAS#
Sodium Hydroxide 1310-73-2 EINECS# 215-185-5

(REG-SECTION)
(311,312)

RQ (LBS) 1000

Any release equal to or exceeding the RQ must be reported to the National Response Conter (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

STATE REGULATIONS:
CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65):
This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.

INTERNATIONAL REGULATIONS:

The components of this product are listed on the chemical inventories of the following countries:

The components of this product are listed on the chemical inventories of the following countries:

Australia (AICS), Canada (DSL/NOSL), China (IECSC), Europe (EINECS, ELINGS), Japan (METIVCSCL,

MHLW/ISHL), South Korea (KECI), New Zealand (NZIOC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

D2B: Irritating to skin / eyes.
E: Corrosive Material.

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### SECTION 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA); 2, HEALTH (HMIS): 2, FLAMMABILITY: 0, PHYSICAL HAZARD: 1

(Personal Protection Rating to be supplied by user based on use conditions.)

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating system.

#### EMPLOYEE TRAINING:

See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

literature may be available upon request. Since actual use by others is beyond our control, no warranty, express or implied is made by C.C.L as to the effects of such use, the results to be obtained or the safety and toxicity of the product nor does C.C.L assume any liability arising out C.C.I. makes no warranty, representation or guaranty as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, based upon data obtained from the manufacturer and/or recognized technical sources; however, of use by others of this product toxicity and suitability of his own use, handling and disposal of the product. Additional product All information, recommendations, and suggestions appearing herein concerning this product are

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07-1-4B 6/6

16-148 6/1

### SAFETY DATA SHEET

PRODUCT IDENTITY: BWT-90 COMPANY IDENTITY: CCI

SDS DATE: 01/22/2014 REPLACES: 11/07/2011

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. THIS SDS COMPLIES WITH CFR 1910.1200 (HAZARD COMMUNICATIONS STANDARD)

IMPORTANT: Read this SDS before handling & disposing of this product.

Pass this information on to employees, customers, & users of this product.

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: BWT-90

SDS NUMBER: CKOS
COMPANY IDENTITY: CCI CHEMICAL
COMPANY ADERSS: 3540 EAST 26<sup>TH</sup> STREET, VERNON, CALIFORNIA 90058
COMPANY PHONE: 800-767-9112
COMPANY PHONE: 800-767-9112

CANUTEC: 1-613-996-6666 (CANADA)

#### DANGER !!

SECTION 2. BAZARDS IDENTIFICATION





EXPOSURE PREVENTION: AVOID ALL CONTACT!

### HAZARD STATEMENTS:

H106s = General, H200s = Physical, H300 = Health, H400s = Environmental H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

### PRECAUTIONARY STATEMENTS:

P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal P262

Do not get in eyes, on skin, or on clothing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present & Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or you feel unwell: Call a POISON CENTER or doctor/physician easy to do - Continue riasing.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Store locked up. Keep out of reach of children.

P405+102

Water	Sodium Hydroxide	MATERIAL
7732-18-5	1310-73-2	CAS#
231-791-2	215-185-5	EINECS#

been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200). U.S. State equivalents, and Canadian Hazardeus Materials Identification System Trace components: Trace ingradients (if any) are present in < 1% concentration, < 0.1% for potential exclinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). Note of the trace ingredients contribute significant Standard (CPR 4). Additional lazzards at the concentrations that may be present in this product. All pertinent hazzard information has

### SECTION 4. FIRST AID MEASURES

#### EYE CONTACT:

If this product enters the ভুল্ল, open eyes while under gently nunning water. Use sufficient force to spen eyelids. Roll eyes to expose niote surface, <u>Miniatum</u> flushing is for 15 minutes. Seek immediate medical attention,

#### SKIN CONTACT:

If the product contaminates the skin, intracdizedy begin decontamination with runsing water. Minimum flusting is for 15 minutes. Remove communitated civiling, taking care not to contaminate eyes. If this becomes irritated and irritation persists, medical attention may be necessary. Wash contaminated clothing before reuse, distard contaminated shoes.

#### THALATION:

wear an appropriate mask or self-contained breathing exparants. Keep person warm and at rest, breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration, it may be dangerous to the person providing ald to give nonth-ton-mown treascritation. If uncontaines, place in recovery position and get nesicial attention firm mediately. Maturata an open airway. Locater tight elething such as a collar, the, belt or waistbond. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR), Seek intunediate medical attention in case of inhalation of decomposition. for 48 hours. products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance A far bigh vapor exposure, remove to firsh air. If it is suspected that the filmes are still present the rescuer should

#### SWALLOWING:

If swallowed, CALL PHYSIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, give two glasses of water to drink: DO NOT INDUCE VOMITING. Never induce ventiding or give liquids to semeone who is unconscious, having convalsions, or unable to swallow. Seek immediate medical attention.

#### NOTES TO PHYSICIAN:

ctinical condition of the patient. Any material aspirated during womiting may cause lung injury. Therefore, emessis Should be induced mechanically or pharmacologically. If it is considered necessary to ovacuate the stormach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal intubation). flowe is no specific amidote. Treatment of overexpectne should be directed at the control of symptoms and the

attention, if necessary. Take a copy of the label and SDS to physician or health professional with victim Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical

### SECTION 5. FIRE FIGHTING MEASURES

## FIRE & EXPLOSIONS PREVENTIVE MEASURES:

Isolate from extreme heat and open flame.

#### EXTINGUISHING MEDIA:

In case of fire in surroundings, all extinguishing agents allowed. Contact with acids gives off hydrogen sulfide, a toxic and flammable gas that may form explosive mixtures in air.

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### SPECIAL FIRE FIGHTING PROCEDURES:

Water spray may be ineffective on five but can protect fire-fighters & cool closed combiners. Use fog notales if water is used. Do not enter confined fire-space without full burker gear. (Helmet with fixe ghield, bunker coats, gloves & robber boots). Use NIOSH approved positive-pressure selfcontained breathing apparatus.

# UNUSUAL EXPLOSION AND FIRE PROCEDURES:

Noncombustible.

Applying to hot surfaces requires special precautions. Closed containers may explode if exposed to extreme heat (solate from acids.

# SECTION 6. A CCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS: Uncontrolled releases should be responded to by trained personned using pre-planned unocedures. Proper protective equipment should be used, in case of a spill, clear the affected area, protect people, and respond with trained personnel.

### PERSONAL PROTECTIVE EQUIPMENT

Apparties of respirator may be required where engineering crotrols are not adequate or conditions for potential exposure exist. When respirators are required, select NJOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations. The proper protective equipment for incidental releases (such as: 1 Little of the product released in a well-ventilated area, use impermeable gloves (miple-gloves, nobber gloves and minit gloves, over lates gloves), spegies, face should, and appropriate body protection. In this cover of a large release, use impermentals gloves, specific for the majornal handloot, chemically resignate and boots, and hard hat Self-Commined Breathing

### ENVIRONMENTAL PRECAUTIONS:

Stop spill at source. Construct temporary likes of tirt, sand, or any appropriate readily available material to prevent spreading of the material. Close or cap valves sordor block or pileg able in leading container and transfer to another container, leap from entering some meyers and distinces which had to waterways, and if necessary, call the local fire or police department for immediate emergency assistance.

## CONTAINMENT AND CLEAN-UP MEASURES

buffering material. (acid with soda ach or hate with phospharic acid), and test area with Hants paper to confirm neutralization. Clean up with non-combustible absorbern (such as: sand, soil, and so on). Showel up and place all spill residue in suitable containers. Dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal (see Section 13- Disposal Considerations). Absorb spilled liquid with poly pads or other suitable absorbent materials. If necessary, neutralize using suitable

### SECTION 7. HANDLING AND STORAGE

Use mly with adequate ventilation. Do not get in eyes, on skin or clothing. Wear OSHA. Standard full face shield. Codsolt Safety Equipment Supplier. Wear gaggles, face shield, gloves, apron & footwear impervious to malerial. Wash clothing before reuse. NEVER pour water into this substance. When dissolving or clithing, always add it.

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STORAGE:

Keep seperated from strong oxidants, strong acids, metals, food & feedstuffs. Keep dry.

Do ray store above 49 C/120 F. Keep container tightly closed & upright when not in use to prevent leakage.

Wear full face shield, gloves & full protective clothing when opening or handling. When empty, drain completely, replace bungs securely.

#### NONBULK: CONTAINERS:

Store containers ewey from incompatible chemicals ( see section 10, Stability and Reactivity). Post warning and 'NO SMOKING' signs in storage and use areas, as appropriate. Empty containers should be handle with care. Never store food, feed. Or drinking water in containers which held this product. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is poessible. Materiai stiguld be stored in a secondary containers or in a diked area; as appropriate

#### BULK CONTAINERS:

pipelines which contain this product. Report all leaks immediately to the proper personnel All tanks and pipelines which contain this material must be labeled. Perform routine maintenance on tanks or

#### TANK CAR SHIPMENTS:

A sample (if required) must be taken and verified prior to starting transfer operations. All lines must be blown-down and purged before disconnecting them from the tank car vessel. Tank cars carrying this product should be loaded and unloaded in strict accordance with tank-car manufacturer's Recommendations and all established on-site safety procedures. Appropriate personal protective equipment must be used (see Section 8, Engineering Controls and Personal Protective Equipment). All teaking and unicading equipment must be inspected, prior to each use. Loading and unleading operations must be attended, at all times. Tank cars must be verified to be correct for receiving this product and be properly prepared, prior to starting the transfer operations. Hoses must be verified to be in the correct positions, before starting transfer operations.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:
Follow practices indicated in section 6 (Accidental Release Measures). Make sore certain application equipment is locked and tagged-om safely. Always use this product in areas where adequate ventilations is provided. Collect all rinsates and dispose of according to applicable Federal, State, Provincial, or local procedures.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL Sodium Hydroxide	MATERIAL Sodium hydroxide Water
CAS# 1310-73-2	CAS# 1310-73-2 7732-18-15
EIENECS# 215-185-5	EINECS# 215-185-5 23]-79]-2
CEILING STEL (OSHA 2 ppm None Known	TWA (OSHA) None Known None Known
STEL (OSHA/ACGIH) HAP None Known No	TLV (ACGIH) None Known None Known

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

### RESPIRATORY EXPOSURE CONTROLS:

A respiratory protective program that meets OSHA CFR 1910.134 and ANSI 286.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

#### VENTILATION: LOCAL EXHAUST: Necessary MECHANICAL (General): Necessary OTHER: None

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edition, for details. Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent

#### PERSONAL PROTECTION:

Wear OSHA Sandard full face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.

#### WORK & HYGIENIC PRACTICES

Provide readily sockstible ere wash students & safety showers. Wash at the end of each work shift & before enting smoking or using the toller. Promptly remove elabing that becomes contaminated. Decrey contaminated leather articles. Launder or discard contaminated clothing.

# SECTION 9. PHYSICAL & CHEMICAL PROPERTIES:

WATER SOLUBILITY:  PARTITION COEFFICIENT (n-Oczano/Waker):  AUTO IGNITION TEMPERATURE:  DECOMPOSITION TEMPERAURE:	POUNDS/GALLON:	GRAVITY @ 68/68F / 20/20C:	VAPOR DENSITY (air = 1):	VAPOR PRESSURE (mm of Hg)@20 C:	UPPER FLAMMABLE LIMIT IN AIR (% by voi):	LOWER FLAMMABLE LIMIT IN AIR (% by vol):	FLANMABILITY CLASSIFICATION:	EVAPORATION RATE (n-BUTYL ACETATE=1):	FLASH POINT (TEST METHOD):	BOILING RANGE (IBP,50%,Dry Point):	MELTING POINT/FREEZING POINT:	Ph (Neat):	ODOR THRESHOLD:	ODOR:	APPEARANCE:
Complete Not Available Not Applicable Not Applicable Not Available	10.9254	1 11	N/A	N/A	Not Available	Not Applicable	Non-Combustible	Not Applicable	Not Applicable	Not Applicable	Not Available	12-13	Not Available	Mild odor	Water clear liquid

### SECTION 10. STABILITY & REACTIVITY

#### STABILITY:

Stable under most conditions

CONDITIONS TO AVOID: Isolate from extreme heat, and open flame.

#### MATERIALS TO AVOID:

The substance is a strong base, reacts violently with cities and is corrotive.

Reacts violently with arong arise, exasting line & explosion hazard, many pleafies, nubbor, coatings, many metals, such as aluminum, inc. int. & lead, forming flammable-explosive gas (hydrogen).

Reacts with an menium salts to produce armonia & causing fire bazard.

Rapidly absorbs carbon dioxide & water from the air.

Contact with moister will generate heat

HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrogen Sulfide.

### HAZARDOUS POLYMERIZATION:

# SECTION II. TOXICOLOGICAL INFORMATION

ACUTE HAZARDS

EYE & SKIN CONTACT:

Severe burns to skin, defatting, dermatitis.
Severe burns to eyes, redness, tearing, blurted vision.
Liquid can cause severe skin & eye burns. Wesh thoroughly after handling.

# Severe respiratory tract irritation may occur. Vapor harmful. The applicable occupational exposure limit value should not be exceeded during any part of working exposure.

INHALATION:

#### SWALLOWING

Harmful or fatal if swallowed.

# SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED None Known.

#### CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:
This product has no careinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date Greater or equal to 0.1%.

IRRITANCY OF PRODUCT: This product is irritating to contaminated bissue.

SENSITIZATION TO THE PRODUCT: No component of this product is known to be a sensitizer.

MUTAGENICITY: This product is not reported to produce mutagenic effects in humans

EMBRYOTOXICITY: This product is not reported to produce embryotoxic effects in humans.

TERATOGENICITY: This product is not reported to produce terztogenic effects in humans

REPRODUCTIVE TOXICITY: This product is not reported to cause reproductive effects in humans.

A <u>mutagen</u> is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An <u>embryoloxin</u> is a chemical which causes damage to developing embryo (such as: which to the eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A <u>tetetogen</u> is a chemical which causes damage to a developing fout, but the damage does not propagate across generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive

06-1-MB 6-3

MAMMALIAN TOXICITY INFORMATION

SECTION 14. TRANSPORT INFORMATION

DRUM LABEL: DOTTIDG SHIP NAME: UN1760, Corrosive Liquid, N.O.S. (Contains Sodium hydroxide), 8, PG-III (CORROSIVE)

IATA / ICAO: UN1760, Corrosive Liquid, N.O.S. (Contains Sodium hydroxide), 8, PG-JII IMO / IMDG: UN1760, Corrosive Liquid, N.O.S. (Contains Sodium hydroxide), 8, PG-JII EMERGENCY RESPONSE GUIDEBOOK NUMBER 154

SECTION IS. REGULATORY INFORMATION

EPA REGULATIONS: SARA SECTION 311/312 HAZARDS: Acute Health

0 11

This product contains the indicated < \* > loxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material. SARA Title III Section 313 Supplier Notification ALL components of this product are on the TSCA list

SARA TITLE III INGREDIENTS CAS# Sodium Hydroxide 1310-73-2 EINECS# 215-185-5 (REG.SECTION) RQ (LBS) (311,312) 1000

Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

STATE REGULATIONS: CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.

INTERNATIONAL REGULATIONS:

The components of this product are listed on the chemical inventories of the following countries: Australia (AICS), Canada (DSL,NDSU), China (IECSC), Europe (EINECS,ELINCS), Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIOC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA)

CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

Ü D2B: Irritating to skin / eyes Corrosive Material

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA): 3, HEALTH (HMIS): 3, FLAMMABILITY: 0, PHYSICAL HAZARD: 2 (Personal Protection Rating to be supplied by user based on use conditions.)

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating system.

EMPLOYEE TRAINING: See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as

stated in this SDS) before handling it.

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TOXICITY DATA: Toxicology information for components > 1% concentration is given below: SODIUM HYDROXIDE 1%, 24 hours (severe)
500 ml, 24 hours (severe)
1% solution (severe)

Eye irritancy (monkey): Eye irritancy (rabbit): Eye irritancy (rabbit): Eye imizacy (rabbit):

Cytogenic analysis system LD50 (interperoneal, mouse): LDLO (oral, rabbit):

> (grasshopper parenteral): 20 mg 40 ஈழ/kg 1 mg, 24 hours (severe)

LD50 – Dose that is lethal to \$0% of a given species by a given route of exposure.

LC50 – Air concentration that is lethal to \$0% of a given species in a given period of time.

LDLO – Lowest lethal dose in a given species by a given route of exposure. 500 ਗਤੁ/ਫਿਤੁ

EFFECT OF MATERIAL ON PLANTS AND ANIMALS: ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION. This product may be harmful or fatal to plant and animal life if released into the environment.

Refer to section 1.1 (Toxicological Information) for forther data on the effects of this product's components on test SECTION 12. ECOLOGICAL INFORMATION

TLm (mosquito fish): TLm (bluegill): LC100 (Cyprimus carpio):

EFFECT OF MATERIAL ON AQUATIC LIFE: SODIUM HYDROXIDE:

180 ppm/24 hours 25 C 125 ppm/96 hour (fresh water) 99 mg/L/48 hour (tap water)

MOBILITY IN SOIL:
Mobility of this material has not been determined.

DEGRADABILITY

This product is completely biodegradable.

ACCUMULATION:

Bioaccumulation of this product has not been determined.

SECTION 13. DISPOSAL CONSIDERATIONS

national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate Processing, use or contamination may change the waste management options. Recycle / dispose of observing

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#### NOTICE

based upon data obtained from the manufacturer and/or recognized technical sources, however, C.C.1. makes no warranty, representation or guaranty as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety. of use by others of this product. warranty, express or implied is made by C.C.I. as to the effects of such use, the results to be toxicity and suitability of his own use, handling and disposal of the product. Additional product All information, recommendations, and suggestions appearing herein concerning this product are obtained or the safety and toxicity of the product not does C.C.I. assume any liability arising out literature may be available upon request. Since actual use by others is beyond our control, no

SAFETY DATA SHEET

1/9 Sulfaric Acid 93%

PRODUCT IDENTITY: SULFURIC ACID 93% COMPANY IDENTITY: CCI

SDS DATE: 06/20/2013 REPLACES: 03/05/2012

Chemical Safety Cards of the Global Harmonizing System.
THIS SDS COMPLIES WITH CFR. 1910. 1200 (HAZCAZD COMMUNICATIONS STANDARD)
DNPORTANT: Read this SDS before handling & disposing of this product.
Pass this information on to employees, customers, & users of this product. This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: SULFURIC ACID 93%

SDS NUMBER:
CRISHO
SDS NUMBER:
COMPANY IDENTITY: CGI CHEMICAL
COMPANY ADRESS:
3540 EAST 26<sup>Th</sup> STREET, VERNON, CALIFORNIA 90058
COMPANY PHONES:
800-767-9112
EMERGENCY PHONES: CHEMITREC: 1-613-996-6666 (CANADA)
CANUTEC:
1-613-996-6666 (CANADA)

### SECTION 2. HAZARDS IDENTIFICATION















## HAZARD STATEMENTS:

H100s = General, H200s = Physical, H300 = Health, H400s = Environmental
H290 May be corrosive to metals.
H304 May be facal if swallowed.
H314 Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENTS:
P100s = General, P200s = Prevention, P200s = Response, P400s = Storage, P500s = Disposal
P262
P260
Wear protective gloves/protective clothing/typ protection/face protection.
P305+351+338 IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses if present &

easy to do - Continue rinsing.

If exposed or you feel unwell: Call a POISON CENTER or doctor/physician.

Store locked up. K-eep out of reach of children.

P309+311 P405+302

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Water	Sulfuric Acid 93%	MATERIAL
7732-18-5	7664-93-9	CAS#
231-791-2	231-639-5	EINECS#
5-7	93-94	% TW

29 Soffwie Acid 33%

Trace companients: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential extrinegent, reproductive seeins, respiratory tract munagers, and constitutes; None of the trace ingredients constitute significant additional hazards at the concentrations that may be present in this product. All perfects the traced information has been powified in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (22 CFR 19 10.1200), U.S. State equivalents and Canadian Hazardous Materials Identification System.

### SECTION 4. FIRST ALD MEASURES

EYE CONTACT:

If this product enters the cytes, open eyes while under graphy running water. Use sufficient force to open eyelids.

Roll eyes to expose more surface. <u>Winitmum</u> flushing is for 15 minutes. Seek immediate medical attention.

#### SKIN CONTACT:

The product communicates the skin, immediately begin deconcentration with running water. <u>Minimum</u> flushing is for 15 minutes; Remove communicate clothing, taking care not to contaminate cyes. If skin becomes irritated and irritation persists, medical attention may be accessery. With contaminated clothing before rease, discard

a coller, tie, belt or waistband. If the heart has stopped, trained personnel should immediately begin eardiopulmonary resuscitation (CPR). Seek immediate medical attention, in case of inhalation of decomposition difficult, give exegen, If beauthing has stopped, trained personnel should interedizedly begin stifficial respiration. It may be dangerous to the person providing said to give month-to-mouth restationant if underscious, place in recovery position and get modelal attention immediately. Mentain an open althosy, Lossen tight alothing such as After high varyor exposure, remove to fresh sir. If it is suspected that the furnes are still present the resear should wear an appropriate made to self-contained breathing apparatus. Keep person warm and at rest, breathing is produces in a  $ar{x}$ ne, symptoms may be delayed. The exposed person may need to be kept under medical surveillance

SWALTOWING:

If swallowed, CALL PHYSIAN OR POISON CONTROL CENTER FOR MOST CURRENT DIFORMATION. If professional advice is not available, give two glasses of water to drink. DO NOT INDUCE VOMITING, Induce vomiting or give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek immediate medical attention.

#### NOTES TO PHYSICIAN:

editival condition of the patient. Any meserial aspirated during vomiting may cause lung injury. Therefore, crossis Should be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stormach contents, this should be done by means least likely to cause aspiration (such as: Gustric iscage after enformathed There is no specific antidote. Treatment of overexposure shauld be directed at the control of symptoms and the

Victims of chemical exposure must be taken for medical attention. Resciters should be taken for nedical attention, if necessary. Take a copy of the label and SDS to physician or ficalth professional with victim.

### SECTION 5. FIRE FIGHTING MEASURES

## FIRE & EXPLOSIONS PREVENTIVE MEASURES:

Isolate from extreme heat and open flame. Release of sulfur dioxide at extremely high temperatures

5/9 Sulfuriz Acid 93%

#### EXTINGUISHING MEDIA:

Use media appropriate for surrounding material. Use water spray to cool container exposed to fire; DO NOT get water inside containers.

### SPECIAL FIRE FIGHTING PROCEDURES:

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive-pressure selfcontained breathing apparatus.

# UNUSUAL EXPLOSION AND FIRE PROCEDURES:

Reacts with most metals, especially when dilute: Hydrogen gas release (Extremely flammable, explosive), Risk of explosion when acid combined with water organic materials or base solutions in enclosed spaces (Vacuum trucks, tanks). Follow appropriate National Fire Protection Association (NFPA) codes.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS:

Uncontrolled releases should be responded to by resined personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with

### PERSONAL PROTECTIVE EQUIPMENT

goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, specific for the material handed, chemically resistant suit and boots, and hard hat Self-Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations, The proper protective equipment for incidental releases (such as: I Litter of the product released in a wall-ventilated area), use impermeable gloves (triple-gloves, nubber gloves and nitrile gloves, over latex gloves).

### ENVIRONMENTAL PRECAUTIONS:

Stop spill at source. Construct temporary dikes of dirt, send, or any appropriate readily available material to prevent spreading of the material. Close or cap valves and/or block or plug hole in leaking container and transfer to another container, keep from entering storm servers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate emergency assistance

### CONTAINMENT AND CLEAN-UP MEASURES:

place all spill residue in suitable containers. Dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal (see Section 13- Disposal Absorb spilled liquid with poly pads or other suitable absorbent materials, If necessary, neutralize using suitable buffering material, (cautiously dilute and neutralize with lime or soda ash), and test area with limus paper to confirm neutralization. Clean up with non-combustible absorbent (such as: sand, soil, and so on). Shovel up and

### SECTION 7. HANDLING AND STORAGE

#### HANDLING:

Use only with adequate vertilation. Do not get in eyes, on skin or clothing. Wear OSHA. Standard full face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse. NEVER pour water into this substance.

4/9 Sulfarie Actid 93%

DO NOT add water or other products to contents in containers as violent reactions will result with resulting high heat, pressure and/or generation of hazardous acid mists. Keep containers away from heat, sparts, and flame. All closed containers must be safely vented before each opening. Sulfuric Acid must be stored in containers or tanks that have been specially designed for use with Sulfuric Acid

#### NONBULK: CONTAINERS:

Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Masterial should be stored in a secondary continents or in a direct area, at appropriate. Store containers ways from incompatible chanicals; see section 10. Stability and Recutivity, 2 dest warping and "NG SMOKING" signs in storage and use a reas, as appropriate. Empty containers should be handle with care. Newer store food, feed. Or drinking water in containers which held this product.

#### BULK CONTAINERS:

All ranks and pipelines which contain this material must be labeled. Perform routine maintenance on tanks or pipelines which contain this product. Report all leaks immediately to the proper personnel.

#### TANK CAR SHIPMENTS:

Recommendations and all established on-site safety procedures. Appropriate personal protective equipment must be used I see Section 8. Engineering Controls and Personal Protective Equipment). All floading and unloading equipment outsit be imperted, privato a each use. Loading and unloading operations must be anended, at all times. Tank cars must be verified to be correct for exceiving this product and be próporly prepared, prior to starting the down and purged before disconnecting them from the tank car vessel. reasser operations. Hoses must be verified to be in the correct positions, before serving transfer operations. A sample (if required) must be taken and verified prior to starting transfer operations. All three must be blown-Tank cars carrying this product should be leaded and unloaded in strict accordance with tank-car manufacturer's

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:

Follow prestries indicated in section 6 (Accidental Release Measures). Make sur certain application equipment is locked and tagged-out safely. Always use this product in areas where adequate ventilations is provided. Collect all rineates and dispose of according to applicable Federal. State, Provincial, or local procedures.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL Sultimic Acid	MATERIAL Sulfuric Acid Water
CAS# 7664-93-9	CAS# 7664-95-9 7732-18-15
EIENECS# 231-639-5	EINECS# 231-639-5 251-791-2
CEILING STEL (OSHA/ACGIH) None Known 3 mg/m3	TWA (OSHA) 1 mg/m3 None Known
/ACGIH) HAP	TLV (ACGIH) 1 mg/m3 None Known

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%

### RESFIRATORY EXPOSURE CONTROLS:

A respiratory protective program that meets OSHA CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

SA SHOOK AND SE

VENTILATION: LOCAL EXHAUST: Necessary

OTHER: MECHANICAL (General): Necessary

edition, for details. Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent

#### PERSONAL PROTECTION:

apron & footwear impervious to material. Wash clothing before reuse. Wear OSHA Standard full face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves

### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers. Wash at the end of each work shift & before eating, smoking or using the foller. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or diseard contaminated clothing.

# SECTION 9. PHYSICAL & CHEMICAL PROPERTIES:

PARTITION COEFFICIENT (n-Octane/Water):
AUTO IGNITION TEMPERATURE: VAPOR PRESSURE (mm of Hg)@20 C: VAPOR DENSITY (air = 1): LOWER FLAMMABLE LIMIT IN AIR (% by vol): UPPER FLAMMABLE LIMIT IN AIR (% by vol): DECOMPOSITION TEMPERAURE: WATER SOLUBILITY: POUNDS/GALLON: SPECIFIC GRAVITY (Water = 1): GRAVITY @ 68/68F / 20/20C: FLAMMABILITY CLASSIFICATION: FLASH POINT (TEST METHOD):
EVAPORATION RATE (n-BUTYL ACETATE=1): BOILING RANGE Ph (Noutrality):
MELTING POINT/FREEZING POINT: ODOR THRESHOLD: APPEARANCE: Not Available Not Applicable Not Available Not Applicable Not Applicable Complete 15.345 1.84 Not Applicable
Not Available
< 0.001 mm Hg @ 20 deg C 3.38 0.3 (1 N solution @ 25 C (75 F) -10 C Non-Combustible 290 - 338 deg C Not Available Liquid, oily- clear colorless to yellow

### SECTION 10. STABILITY & REACTIVITY

#### STABILITY:

Stable under most conditions

CONDITIONS TO A VOID: Isolate from extreme heat, and open flame. Possibility of decomposition. Release of dangerous gasses (Sulfur oxides SO2 SO3)

6/9 Sulfaric Acid 95%

#### MATERIALS TO AVOID:

elefinie organies, glyceis, aqueous acies: causes strong exerhemic reactions. Carbonates, cyanides, sulfides and permanganaises; causes fires and possible explosions; Aliyl compounds and aldehydes; undergoes polymerization, possibly viniers, Alikalies, animes, water, hydrated salts, carboxyfic acid aniwdrides, nitribes, Vitro compounds, carbides, dienes, alcohols (when heated); cause explosions. Oxidizing agents, such as chlorates sulfites, metals such as copper: yields toxic gas. Avoid tempereures grower than 300C. Yields sulfur trioxide gas, which is toxic, cornastive, and an oxidizer,

### HAZARDOUS DECOMPOSITION PRODUCTS:

### HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11. TOXICOLOGIGAL INFORMATION

#### ACUTE HAZARDS

EYE & SKIN CONTACT: Severe burns to skin, defatting, dermatitis

Severe burns to eyes, redness, tearing, blurred vision.

Liquid can cause severe skin & eye burns. Wash thoroughly after handling.

#### SWALLOWING

The applicable occupational exposure limit value should not be exceeded during any part of working exposure

THALATION:

Severe respiratory tract imitation may occur. Vapor harmful

Harmful or fatal if swallowed.

# SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED: None Known.

#### CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date Greater or equal to 0.1%.

JRRJTANCY OF PRODUCT: This product is irritating to contaminated dissue.

SENSITIZATION TO THE PRODUCT: No component of this product is known to be a scusitizer.

MUTAGENICITY: This product is not reported to produce mutagenic effects in humans.

EMBRYOTOXICITY: This product is not reported to produce embryotoxic effects in humans

TERATOGENICITY: This product is not reported to produce teratogenic effects in humans.

7/9 Sulfaric Acid 93%

# REPRODUCTIVE TOXICITY: This product is not reported to cause reproductive effects in humans

A <u>muragen</u> is a chemical which causes permanent changes to generic material (DNA) such that the changes will propagate through generational lines. As <u>embryotoxa</u> is a chemical which causes damage to developing embryo (such as; within the sight weeks of pregnancy in humans), but the damage does not propagate aeross generational lines. A <u>teatlogen</u> is a chemical which caused damage to a developing fetus, but the damage does not propagate lines. A <u>teatlogen</u> is a chemical which caused damage to a developing fetus, but the damage does not propagate aeross generational lines. A <u>reproductive toxin</u> is any substance which interferes in any way with the reproductive

### MAMMALIAN TOXICITY INFORMATION

# TOXICITY DATA: Toxicology information for components > 1% concentration is given below: SULFURIC ACID:

Eye irritancy (rabbit):
Inhalation (mouse):
Inhalation (rat):
Oral (rat): LC50 = 320 mg/m3/2H; LC50 = 510 mg/m3 Draize test: 250 ug (severe)

2140 mg/kg;

LD50 – Dose that is lethal to 50% of a given species by a given route of exposure. LC50 – Air concentration that is lethal to 50% of a given species in a given period of time.

## SECTION 12. ECOLOGICAL INFORMATION

LDLO —Lowest lethal dose in a given species by a given route of exposure.

# ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

# EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

This product may be harmful or fatal to plant and animal life if released into the environment.

Refer to section 1.1 (Toxicological Information) for further data on the effects of this product's components on test

### EFFECT OF MATERIAL ON AQUATIC LIFE: SULFURIC ACID:

Bluegill (Sunfish):

LC50; 48 hours: 49 mg/L (Tzp water, 20 deg C) LC50; 48 hours: 100-330 mg/L (Aerated water)

#### MOBILITY IN SOIL

Mobility of this material has not been determined.

#### DEGRADABILITY:

This product is completely biodegradable

ACCUMULATION: Bioaccumulation of this product has not been determined

### SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate

8/9 Sulfaric Acid 93%

### SECTION 14. TRANSPORT INFORMATION

DOT/TDG SHIP NAME: UN1830, SULFURIC ACID, 8, PG-II DRUM LABEL: (CORROSIVE) IATA/ICAO: UN1830, SULFURIC ACID, 8, PG-II UN1830, SULFURIC ACID, 8, PG-II

EMERGENCY RESPONSE GUIDEBOOK NUMBER 137 IMO / IMDG:



## SECTION 15. REGULATORY INFORMATION

EPA REGULATIONS SARA SECTION \$13 HAZARDS: This product contains a chemical of chemicals which are subject to the reporting requirements of the Art and Title 40n of the code of Federal Regulations. Part 372:

ALL components of this product are on the TSCA list

SARA Title III Section 313 Supplier Notification

This product contains the indicated < \* > taxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 373.

This information must be included in all NISOSs that are copied and distributed for this material.

Regulations (U.S.A):

SARA TITLE III INGREDIENTS CAS# SULFURIC ACID 7664-92-9

S CAS# EINECS# 7664-92-9 231-639-5

93-94 93-94

(REG.SECTION) (103,502,313)

RQ (LBS)

CERCLA Section 163 Hazardous subsultrees (40 CFR 502.4); SARA Section 302 Extremely Hazardous Substance (40 CFR 355); Yes.; SARA Section 312. Tasks Chemicals (40 CFR 372.65); US: TSCA Inventory: Listed : Sufficie (Acid) (Final RQ): 1000 pronds (454 kg)

STATE REQUIATIONS:

CALIFORNIA SAFE DRINKING WATER & TOXIC EXPORCEMENT ACT (PROPOSITION 65):

This product complies no chemicals known to the State of California to cause cancer of reproductive toxicity.

INTERNATIONAL REGULATIONS:

The components of this product are tissed on the chamical inventories of the following countries: Australia (AICS), Canada (DSL,NOSCL, China (RECSC), Europe (EINECS, EUNECS), Japan (NETI/CSCL, MHLW/ISHL), South Korea (NEC), New Zeatand (NZOC), Philippines (PICCS), Switterland (SWISS), Taiwan (NECSI), USA (TSCA).

CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

D2B: Irritating to skin / eyes.

Corrosive Material.

### SECTION 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA): 3. HEALTH (HMIS): 3. FLAMMABILITY: 0. PHYSICAL HAZARD: 2

(Personal Protection Rating to be supplied by user based on use conditions.)

This information is intended solely for the use of individuals mained in the NFPA & HMIS hazard rating system.

EMPLOYEE TRAINING: See Section 1 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

9:9 Sulfarie Acid 93%

#### NOTICE

of use by others of this product. obtained or the safety and toxicity of the product nor does C.C.L assume any liability arising out warranty, express or implied is made by C.C.I. as to the effects of such use, the results to be C.C.I. makes no warranty, representation or guaranty as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, based upon data obtained from the manufacturer and/or recognized technical sources; however, literature may be available upon request. Since actual use by others is beyond our control, no toxicity and suitability of his own use, handling and disposai of the product. Additional product All information, recommendations, and suggestions appearing herein concerning this product are

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### SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION Chemical Family: Product Identifier: BROMMAX 7 1 Water Treatment Antimicrobial Scholon Product Code: 22

Enviro Tech Chemical Services, Inc.

500 Winmoore Way Modesto, CA 95358 (7.09) 581-9576 (7 AM to 5 PM, PST Monday to Friday)

24 Hr. Emergency Tel.#: 800-424-9300

### SECTION 2. HAZARDS IDENTIFICATION

This chemical is a pssidide product replaced by the Environment, Protection Agancy and is subject to addish labeling requirements unler the Federal Insectidae, Purgidios and Accidenticae Act (FERA). These requirements differ from the classification orbinis and hazzud information required for safety data streets of non-positiode chemicals. Please see Section 13 for FIFRA labeling

Skin Imitation - Category 2 Classification of the Substance or Mixture:

Acute Toxicity - Dermat Category 5 Acule Toxicity - Inhalation Category 4 Compsive to Metals - Category to Serious Eye Damage - Category 1



Signal Word: DANGER

Causes skin inilation Hazard Statements:

Causes serious eye damage

May be harmful in contact with swn May be harmful if inhaled

Precautionary Statements:

vies: protective clovestrotective dothing/eye protection/face protection IF IN EYES: Ringe cautausty with valor for several minutes. Remove canded tanses if present and capy to do Continue rinsing.

IF ON SKIN (or hair): Remove Take cff immedialely all contaminated dicthing. Rinse skin with water/shower

Keep away from heal/sparks/apen flames/hot surfaces - No smoking

Take any precaution to avoid mixing with combustibles Keep/Store away from dothing/. /combustible materials

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS		
Ingredient	CAS Number	Concentration
SULFAMIC ACID, M-BROMO, SODIUM SALT	1004542-84-0	:5-25%
SODIUM: HYDROXIDE	1310-73-2	1-5%
SECTION 4-ERST-AID MEASURES	na Pa	

Inhalation: Get medical advice/attention if you feel unwell or are concerned

Skin Contact: Take of comministed clobking, sinces and leather goods (e.g. walchbands, borg.). Which with plenty of lutewarm, gently flowing water with a flushing superior of 15-20 minutes. If skin initiation or rash occurs, Get medical spokes before water superior water water and provided the superior of the superio

Sys Dentact: Particle source of exposure or move person to hash air, finds age automaty with unknown, goally flaving value for several religious, with substaining several source. Remove contact press, it present and easy to the Continue finding for 30 minutes. Take care and to frice containing the order to the finding for 30 minutes. Remove contact press to the longer several per or find the face, hard-selely and a POSISON CENTERADORS. In the form of the finding occurs naturally, the on your side, in the finding common that the

rezorgy Codsion. Ross important Symptoms and Effects, both Acute and Debyedt Causes inflationfouns that may result in pormanent impairment of vision, even bindricss. Coulag with skin can cause inflation. May be harmful if swallowed

BROMMAX 7 1

### SAFETY DATA SHEET

Indication of any Immediate Medical Attention and Special Treatment Needed: Treat symptomatically

### SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media: Use water spray, powder, foem, carbon dioxide

Special hazards arising from the substance or mixture: Non combustible May give off initiating or toxic formes (or gases) in a fire

Flammability classification (OSHA 29 CFR 1910,108) (Hazcom 2012): Non flammable

Hazardous Combustion Products: May cause fire and explosions when in contact with incompatible materials

Special protective equipment and precautions for firefighters: In the event of a fire, wear full protective dothing and NIOSH-approved self-contained breathing apparatus

# SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal pracaulions, protective equipment and emergency procedures: Vandista area of leak or spit. Wear appropriate personal possessive sequences are supported to become the sequences of the s

### SECTION 7 - HANDLING AND STORAGE

Processions for Safe Handings: Wash as expensional existing (powers and specific processing), and chemical resistant saments when the death of the Handings of the Handings of the Handings wash (powers and of the by contector of spossing). The Handings wash (powers and of the by contector of spossions) and chemical resistant saments when conditions for Safe Storage: Storage is a cool, dry, well verified dates arealy from direct sunlight. Keep container desert when not in use.

Incompatible Materials: Avoid strong reducing agents, soft metals, heat and acids

# SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation and engineering measures: Forced air, local exhaust, or open air is adequate

Respiratory Protection: Not a respiratory imitant unless dealing with a mist form, then wear appropriate NIOSH respirator

Skin Protection: Wear chemical resistant gloves and chemical resistant garments when handling, wash garments before re-use

Other Protective Equipment: Eye wash facility and emergency shower should be in close proximity EyerFace Protection: Wear chemical goggles: also wear a face shield if splashing hazard exists

General Hygiene Conditions: Do rol est, drink or smoke when using this product. Wash thoroughly after handling Remove and wash confaminated doubling before re-use. Handle in accordance with good industry hygiene and safety practice.

# SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Odor: Mild chlorine like odor Appearance: Bright orange liquid

pH: 12 D-13 0 (1:100)

Initial boiling point and boiling range: No information available Melting/Freezing point: <-1°C / 30°F

Ftash Point: Not applicable

Flammability (solid, gas): Non flamnable

Solubility in water Complete Specific gravity: 13 - 1,35 g/mL

Decomposition temperature: No infarmation available

Viseosity: 15-25 cSt at 20°C / 69°F

# SECTION 18 - STABILITY AND REACTIVITY

Reactively: Reactive with oxidizing agents, reducing agents, organic materials, metals, acids and alkalis

Chemical Stability: Stable for up to 1 year when stored under normal conditions

Conditions to Avoid: Avoid contact with strong acids and exidizers. Incompatible materials and cold temperatures Possībīlity of Hazardous Reactions: May react with incompatible materials

ncompatible Materials: Avoid strong reducing agents, soft metals. Feat and acids

Hazardous Decomposition Products: Nitrogen exides, brainine and hydrobranic acid vapor

00127

Page 2 of 4

Enviro Tean Chemical Services, Inc. 500 Winmoore Way Mode

### SAFETY DATA SHEET

### Information on likely routes of exposure:

SECTION 11-TOXICOLOGICAL INFORMATION

Routes of entry - inhalation, YES

Routes of entry - skin & eye: YES

Routes of entry -ingestion: YES

Routes of ontry - skin absorption: NO

#### Potential Health Effects:

Signs and symptoms of short term (acute) exposure:

Inhalation: May cause initation to respiratory system in mist/vapor form

legation: Containe Swaltenig causes senere burns of mouth, throat, and speech, Senere stanting of stout, containn permanent issue restriction and cash may result. Symptons may indude senere path, reassas, vernous, diamina, which, remormaging and the fin blood pressure. Diamage may appear days after successing

Skin: Corrosive! Contact with skin causes imization or severe burns and scarring with greater exposures

Eye: Corresive! Causes initation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even trifutness.

#### Potential Chronic Health Effects:

inutagenicity : May have ന്യാമുള്ളവ് and tumorigenic effects with long term exposure

Reproductive effects: May cause reproductive effects. Carolnogen icity: Not expected to be a caronogen or tumorigen

Sensitization to material: Not a known sensitizer in humans or animals

Specific ರ್ಚಾರ್ಯ organ effects: No iಗಂಗಾಥion available

Medical conditions aggravated by overexposure: No information available

Toxicological data: The calculated ATE values for this mixture are:

ATE dermal =  $> 2000 \, \text{mg/kg}$ ATE oral = > 5000 mg/kg

ATE inhalation (mist) = 2.85 mg/L

SECTION 12-ECOLOGICAL INFORMATION

Ecotoxicity: May be harmful to aquatic life, Persistence and degradability: No information available

Bioaccumulation polential: No information available Mobility In spil: No information available

## SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for disposalt Do not confaminate water, food, or feed by stragge and/or disposal. When handling refer to protestive measures fisted in sections 7 and 6 mapty residue from containers, rines confainer wall sections 7 and 6 mapty residue from containers, rines confainer wall sections of septembers Confainer with all applicable lederal, state, provincial and local regulations Confact your local, state, provincial or feed an inframental agency for specific rules.

RCRA: If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA because of Concessivity D002.

# SECTION 14-TRANSPORTATION INFORMATION

Celtain shipping modes or pedrage sizes may have exceptions from the transport regulations. The dissolization provided may not reflect tross exceptions and may not apply to all shipping modes or pedrage sizes.

Please note the GHS and DOT Standards are NOT identical and therefore can have varying diassifications

US 49 CFR/DOTRATAIMDG Information:

UN No.: 1760 UN Proper Shipping Name: Corrosive Liquid, n.o.s. (bramide satts)

Transportation hazard class(es): 8

BROMMAX 71

Enviro Tech Charical Services, Inc. 500 Winmoore Way Modesto, CA 95358

### SAFETY DATA SHEET

Environmental hazards: Not a Makine Pollotant

# SECTION 15-REGULATORY INFORMATION

FIFRA Classification Typical Hazard Labeling, as outlined in EPA Labe! Review Manual

Hazard Dad		
Signal Word	DANGER	
Acute Toucky, oral	Not Classified (NC)	
Acute Toxidity, dermal	Not Classified (NC)	
Acuse Toxicity, inhalation	Not described (NC)	
Shin interion/corresion	Cxecary I: Corresive Causes skin burns	
Senous eye damage	Category I. Comosive, Causes irreversible eye damage	
Seinellan	Not Classified (NC)	
End-unmertal (aquatic) toxicity	This pesticide is toxic to fish and other aquatic organisms	

US Federal Information:
TSGA information:
US CERCLA reportable quantity (RQ); Nor. Regulated Mazenal
SARA Title III; Acute Health Hazaro

### SECTION 15 - OTHER INFORMATION

SARA: The Superlund Amendments and Reauthorization Acr

RCRA: Rescurpe Conservation and Recovery Act

TSCA: Toxic Substances Control Act

CFR: Code of Federal Regulations

DOT: Department of Transportation

ATE: Acre Toxicity Estimate

Preparation date: 5/09/2014

TRY CIT-WOL

### SAFETY DATA SHEET

COMPANY IDENTITY: CCI
PRODUCT IDENTITY: CLI-MOL

SDS DATE: 02/25/2015 REPLACES 02/07/2010

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System.

THIS SDS COMPLIES WITH CFR 1910.1200 (HAZARD COMMUNICATIONS STANDARD) IMPORTANT: Read this SDS before handling & disposing of this product Pass this information on to employees, customers, & users of this product

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

SDS NUMBER: CK3503
COMPANY IDENTITY: CCI CHEMICAL
COMPANY ADRESS: 3540 EAST 26<sup>TH</sup> STREET, VERNON, CALIFORNIA 90058
COMPANY HONE: 800-767-9112
EMERGENCY FHONES: CHEMITREC: 1-613-996-6666 (CANADA)
CANUTEC: 1-613-996-6666 (CANADA) PRODUCT IDENTITY: CTI-MOL

### SECTION Z. HAZARDS IDENTIFICATION

#### HAZARD STATEMENTS:

H100s = General, H200s = Pbysical, H300 = Health, H400s = Environmental
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H310 Causes cyc irritation.

### PRECAUTIONARY STATEMENTS:

P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal
P262
Do not get in eyes, or skin, or on cleahing.
P305+351+338 IF IN EYES: Ringe cautiously with water for several minutes. Remove contact lenses if present &

easy to do - Continue rinsing.

If exposed or you feet unwell: Call a POISON CENTER or doctor/physician.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Porassium Hydroxide	Disodium Tetra borate Decahydrate	Molybdic Acid Disodium Salt	MATERIAL
1310-58-3	001303-96-4	10102-40-6	CAS#
35	5-10	5-10	WT. %

respondenive toxins, respiratory treat mutagests, and sensitizars). None of the treat ingredients contribute significant Additional hazards at the concentrations that may be present in this product. All personant hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Haalth Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Trace components: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens,

2/6 CLT-PIOL

### SECTION 4. FIRST AID MEASURES

Standard (CPR 4).

#### EYE CONTACT:

If this product enters the eyes, open eyes while under gently running water. Use sufficient force to open eyelids, Roll eyes to expose more surface, Minimum flushing is for 15 minutes. Seek immediate medical attention.

#### SKIN CONTACT

irritation persists, medical attention may be necessary. Wash contaminated clothing before reuse, discard contaminated shoes. If the product contaminates the skin, immediately begin decontamination with running water, Minimum flushing is for 15 minutes. Remove contaminated clothing, taking care not to contaminate eyes. If skin becomes irritated and

#### INHALATION:

Move person to fresh air, if effects occur, consult a physician

#### SWALLOWING:

If swallowed, CALL PHYSIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, give two glasses of water to drink DO NOT INDUCE VOMITING. Never induce vomiting or give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek immediate medical attention.

#### NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Any material asylmated during voluting may cause lung injury. Therefore, emessis Should be induced mechanically or pharmacologically. If it is considered necessary to execute the stomach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal

attention, if necessary. Take a copy of the label and SDS to physician or health professional with victim. Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical

### SECTION 5. FIRE FIGHTING MEASURES

FIRE & EXPLOSIONS PREVENTIVE MEASURES.

### Isolate from extreme heat and open fram-

EXTINGUISHING MEDIA: Water, Water spray, foam, carbon dioxide (CO2). Dry powder,

### SPECIAL FIRE FIGHTING PROCEDURES

Wear self-contained breathing apparatus and full body protective clothing.

3/4 CTT-MOL

UNUSUAL EXPLOSION AND FIRE PROCEDURES:

FLASH POINT: NONE

### AUTOIGNITION TEMPERATURE: N/A

# SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS: Uncontrolled releases should be responded to by trained personnol using pre-planned procedures. Proper projective equipment should be used, in case of a spill, clear the affected area, protect people, and respond with trained personnel.

PERSONAL PRECAUTIONS:
Spilical material tray cause a slipping hazard. Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment.

ENVIRONMENTAL PRECAUTIONS:

Stop spill at source. Construent temporary client of dirt. sand, or any appropriate confidy available material to stop spill at source. Construent temporary client source to the property of the material. Close or cap valves under block or plug hole in leaking considere and transfer to enother confidence and transfer sewers and cliches which lead to waterways, and if necessary, call the local fire or police department for immediate emergency assistance.

CONTAINMENT AND CLEAN-UP MEASURES Absorb spilled liquid with poly pads or other suitable absorbert materials. Clean to with non-combinatible absorbers, spath are suck, soil, and so on). Showe the and piace all spill resides in suitable committees. Dispose of at on appropriate water disposal families according to current applicable haves and regulations and product characteristics at time of disposal (see Section 13- Disposal Considerations).

### SECTION 7. HANDLING AND STORAGE

#### HANDLING:

thoroughly after handling. Product shipped/handled hot can cause thermal burns. Avoid contact with skin, eyes and clothing. Wash

Freezing will affect the physical condition and may damage the material. Keep in a dry cool place (0-30°C), Keep away from heat and sources of ignition.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Material Potassium Hydroxide

CAS# EINECS# 1310-58-3 231-791-2

TWA (OSHA)
None Known

TLV (ACGIH)
None Known

Potassium Hydroxide	Material	
1310-58-3	CAS#	
231-791-2	EIENECS#	
2 ppm	CERLING	
None Known	STEL (OSHA/ACGIH)	
Z	HAP	

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1 %.

SOLINO

### RESPIRATORY EXPOSURE CONTROLS:

A respiratory protective program that meets OSHA CFR 1910,134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

VENTILATION:
LOCAL EXHAUST: Recommended MECHANICAL (General): Recommended
None

PERSONAL PROTECTION:

Wear OSHA Standard full face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.

### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers. Wash at the end of each work shift & before eating, smoking or using the toiler. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

# SECTION 9. PHYSICAL & CHEMICAL PROPERTIES:

AUTO IGNITION TEMPERATURE:	VISCOSITY (mPas):	WATER SOLUBILITY:	POUNDS/GALLON:	SPECIFIC GRAVITY (Water = 1):	GRAVITY @ 68/68F / 20/20C:	VAPOR DENSITY (air = I):	VAPOR PRESSURE (mm of Hg)@20 C:	UPPER FLAMMABLE LIMIT IN AIR (% by vol):	LOWER FLAMMABLE LIMIT IN AJR (% by vol):	FLAMMABILITY CLASSIFICATION:	EVAPORATION RATE (n-BUTYL ACETATE=I):	FLASH POINT (TEST METHOD):	BOILING RANGE (IBP, 50%, Dry Point):	MELTING POINT/FREEZING POINT:	Ph (1%):	ODOR THRESHOLD:	ODOR:	APPEARANCE:
N/A	N/A	Complete	9.09	1.08-1.10		Not Available	Not Available	Not Available	Not Applicable	Non-Combustible	Not Applicable	None	212°C	N/A	9-10	Not Available	Mild odor	Pale yellow/straw clear liquid

### SECTION 10. STABILITY & REACTIVITY

DECOMPOSITION TEMPERAURE:

Not Available

Stable under most conditions

#### CONDITIONS TO AVOID:

Isolate from extreme near, and open flame.

2/2 CCT-WOL

MATERIALS TO A VOID:
Oxidizing agents may cause exothermic reactions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11. TOXICOLOGIGAL INFORMATION Toxicology information for components > 1% concentration is given below.

NONE KNOWN

CONDITIONS AGGRAVATED: None Known.

#### CHRONIC HAZARDS

CHRONIC TOXICITY:
In authals, effects here reported on the following organs after ingestions: Gastrointestinal tact heart, and hidney. Dots levels producing theses effects were many time a strong association between elevated blood pressure and prolonged friether overses. Related effects could occur in the kidneys.

CARCINOGENICITY:
This product is not classified as a carcinogen by NTP, IARC or OSHA.

MUTAGENIC DATA:
In vitro genectic toxicity studies were negative.

DEVELOPMENTAL TOXICITY:

Did not cause birth defects or any other fetal effects in laboratory animals.

## SECTION 12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

FRESH FISH TOXCITY: N/A

ALGAE TOXIGHT:

Algal inhibition test are not appropriate. The floconlisting characteristics of the product interfere directly in the test Algal inhibition test are not appropriate. The floconlisting characteristics of the product interfere directly in the test needlan preventing homogenous distribution which invalidates the test.

PAR CHI-WOL

BIOACCUMULATION:
Does not bioaccumulate.

### SECTION 13. DISPOSAL CONSIDERATIONS

agencies. Processing use or contamination may change the waste management options. Recycle / dispose of obscaving patienal, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate

### SECTION 14. TRANSPORT INFORMATION

UNINA: N/A
Classification: NON-HAZARDOUS
Proper Shipping Name: INDUSTRIAL WATER TREATMENT COMPOUND, NON D.O.T REGULATED
D.O.T. Hazard Name: (49CFR 172.101); NONE
D.O.T. I.D. Number (49CFR 172.102); NONE
D.O.T. Hazard Class (49CFR 172.101); NONE
D.O.T. Hazard Class (49CFR 172.101); NONE
RCRA Hazard Class (49CFR 172.102); NONE
E.P.A. Priority pollutants (49CFR 172.53); NONE

HAZARD RATINGS:

HEALTH (HFFA): 1, HEALTH (HMIS): 1, FLAMMABILITY: 0, PHYSICAL HAZARD: 1

HEALTH (Personal Protection Rating to be supplied by user based on use conditions.)

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating system.

7/6 CT1-MOC

of use by others of this product obtained or the safety and toxicity of the product nor does C.C.J. assume any liability arising out warranty, express or implied is made by C.C.I. as to the effects of such use, the results to be literature may be available upon request. Since actual use by others is beyond our control, no toxicity and suitability of his own use, handling and disposal of the product. Additional product completeness of the material set forth herein. It is the user's responsibility to determine the safety C.C.I. makes no warranty, representation or guaranty as to the accuracy, sufficiency or based upon data obtained from the manufacturer and/or recognized technical sources; however, All information, recommendations, and suggestions appearing herein concerning this product are

1/5 CMT-1100M

### SAFETY DATA SHEET

PRODUCT IDENTITY: CWT-1100M COMPANY IDENTITY: CCI

SDS DATE: 01/22/2014 REPLACES: 02/07/2010

Chemical Safety Cards of the Global Harmonizing System.
THIS SDS COMPLIES WITH CFR 1910.1200 (HAZARD COMMUNICATIONS STANDARD) This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International

Pass this information on to employees, customers, & users of this product.

IMPORTANT: Read this SDS before handling & disposing of this product.

SECTION I. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

SDS NUMBER: PRODUCTIDENTITY: CWT-1100M CR4049

COMPANY IDENTITY: CCI CHEMICAL
COMPANY ADRESS: 3540 EAST 26<sup>TH</sup> STREET, VERNON, CALIFORNIA 90058
COMPANY PHONES: 00-676-9112
EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)
CANUTEC: 1-613-996-6666 (CANADA)

### SECTION 2. HAZARDS IDENTIFICATION

HAZARD STATEMENTS:

H100s = General, H200s = Physical, H300 = Health, H400s = Environmental H317 May cause allergic skin reaction.
H320 Causes eye inflation.
H303 May be harmful if swallowed.

PRECAUTIONARY STATEMENTS:

P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/fact protection.

P230
Wear protective gloves/protective clothing/eye protection/face protection.
P205+931+338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses if present & easy to do — Continue mising. P309+311

If exposed or you feel unwell: Call a POISON CENTER or doctor/physician

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL Sodium Hydroxide 7732-18-5 1310-73-2 CAS# EINECS# 231-791-2

been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Trace components: Trace ingredients (if any) are present in < 1% concentration, (<0.1% for potential carcinogens, reproductive toxins, respiratory tract musagens, and sensitizers). None of the trace ingredients contribute significant Additional hazards at the concentrations that may be present in this product. All pertinent hazard information has Standard (CPR 4).

2/6 CWT-1 200M

### SECTION 4. FIRST AID MEASURES

If this product enters the eyes, open eyes while under gonly running water. Use sufficient force to open eyelids. Roll eyes to expose more surface. Minimum flushing is for 15 minutes, Seek immediate medical attention.

#### SKIN CONTACT:

If the product contaminates the skin, immediately begin decontamination with running water. Minimpin flushing is for 15 minutes, Ramove contaminated clothing, taking care not to contaminate eyes. If skin becomes irritated and irritation persists, medical attention may be necessary. Wash contaminated clothing before reuse, distand

#### INHALATIONS

Move person to tresh air, if effects occur, consult a physician

#### SWALLOWING:

If swallowed, CALL PHYSIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, give two glasses of water to drink. DO NOT INDUCE VOMITING, Never induce vomiting or give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek immediate medical attention.

#### NOTES TO PHYSICIAN:

clinical condition of the paiem. Any material aspirated during vorniting may cause lung injury. Therefore, emesis Should be Induced mechanically or pharmanologically, if it is considered necessary to evacuate the stormoch contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal There is no specific amilitore. Treatment of overexposure should be directed at the control of symptoms and the

ettention, if necessary. Take a copy of the label and SDS to physician or health professional with victim Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical

### SECTION 5. FIRE FIGHTING MEASURES

FIRE & EXPLOSIONS PREVENTIVE MEASURES I solate from extreme heat and open flame

#### EXTINGUISHING MEDIA:

Water, Water spray, foam, carbon dioxide (CO2). Dry powder

### SPECIAL FIRE FIGHTING PROCEDURES

# UNUSUAL EXPLOSION AND FIRE PROCEDURES

FLASH POINT: N/A

AUTOIGNITION TEMPERATURE: N/A

3/5 CWT-1100M

# SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS:

Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

#### PERSONAL PRECAUTIONS:

entering the area. Use appropriate safety equipment Spilled material may cause a slipping hazard. Isolate area. Keep unnecessary and unprotected personnel from

### ENVIRONMENTAL PRECAUTIONS:

Stop spill at source. Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Close or cap valves and/or block or plug hole in leaking container and transfer to another container, keep from entering sorm severs and ditches which lead to waterways, and if necessary, call to another container, keep from entering sorm severs and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate emergency assistance.

## CONTAINMENT AND CLEAN-UP MEASURES:

an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal (see Section 13- Disposal Considerations). Absorb spilled liquid with poly pads or other suitable absorbent materials. Clean up with non-combustible absorbent (such as: sand, soil, and so on). Shovel up and place all spill residue in suitable containers. Dispose of at

### SECITON 7. HANDLING AND STORAGE

#### HANDLING:

thoroughly after handling. Product shipped/handled hot can cause thermal burns. Avoid contact with skin, eyes and clothing. Wash

Freezing will affect the physical condition and may damage the material. Keep in a dry cool place (0-30°C). Keep away from heat and sources of ignition.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL Sodium Hydroxide	MATERIAL Water SodiumHydroxide
CAS# 1310-73-2	CAS# 7732-18-15 1310-73-2
EIENECS#	EINECS# 231-791-2
CEILING STEL (OSMA/ACGIH) None Known	TWA (OSHA) None Known None Known
A/ACGIH) HAP	TLV (ACGIH) None Known None Known

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

### RESPIRATORY EXPOSURE CONTROLS:

A respiratory protective program that meets OSHA CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

WE CALL TROVA

VENTILATION:

LOCAL EXHAUST: Necessary

None

None OTHER:

MECHANICAL (General): Necessary

edition, for details. Please refer to ACGIH document, "Industrial Vantilation, A Manual of Recommended Practices", most recent

PERSONAL PROTECTION:
Wear OSHA Standard Juli face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse.

WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers. Wash at the end of each work shift & before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles, Launder or discard contaminated clothing.

# SECTION 9. PHYSICAL & CHEMICAL PROPERTIES:

APPEARANCE: ODOR:

Clear Amber Liquid Negligible Not Available

ODOR THRESHOLD:

VAPOR DENSITY (air = 1): GRAVITY @ 63/68F / 20/20C: SPECIFIC GRAVITY (Water = 1): BOILING RANGE (IBP\_50%,Dry Print):
FLASH POINT (TEST METHOD):
EVAPORATION RATE (n-BUTYL ACETATE=1): Ph (Neutrality):
MELTING POINT/FREEZING POINT: WATER SOLUBILITY: LOWER FLAMMABLE LIMIT IN AIR (% by vol): UPPER FLAMMABLE LIMIT IN AIR (% by vol): POUNDS/GALLON: VAPOR PRESSURE (mm of Hg)@20 C: FLAMMABILITY CLASSIFICATION: 1,26 Not Applicable Not Available Not Available Not Applicable Non-Combustible Not Applicable N/A 11-12 N/A

VISCOSITY (mPas):
AUTO IGNITION TEMPERATURE:
DECOMPOSITION TEMPERAURE:

Z.A Complete 10.5084 Not Available

Not Available

### SECTION 16. STABILITY & REACTIVITY

STABILITY:

Stable under most conditions.

CONDITIONS TO AVOID:

Isolate from extreme hear, and open flame.

MATERIALS TO AVOID: Reactive metals and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

2/6 C.K.I.-1100W

Elevated temperatures may produce Phosphines, Now, Carbon Monoxide, and Carbon Dioxide.

HAZARDOUS POLYMERIZATION: Will not occur:

# SECTION 11. TOXICOLOGIGAL INFORMATION

LD50 Oral: LDS0/orzl/rat > 2000 mg/kg (estimated) LD50/orzl/rat > 2000 mg/kg (estimated)

LD50 Dermal LD50/oral/rat > 2000 mg/kg (estimated) LD50 Inhalation. The product is not expected to be toxic by inhalation.

CONDITIONS AGGRAVATED:

None Known

#### CHRONIC HAZARDS

CHRONIC TOXICITY:

In animals, effects have been reported on the following organs after ingestions: Castrointestinal tract, heart, and kidney. Does levels producing theses effects were many time a strong association between elevated blood pressure and prolonged dietary overses. Related effects could occur in the kidneys.

CARCINOGENICITY:

This product is not classified as a carcinogen by NTP, IARC or OSHA.

MUTAGENIC DATA:

In vitro genectic toxicity studies were negative.

DEVELOPMENTAL TOXICITY:

Did not cause birth defects or any other fetal offects in laboratory animals.

## SECTION 12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY:
The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of

dissolved organic earbon in the aquatic environment

FRESH FISH TOXCITY: LC50, Danio rerio/96 hr > 10 mg/1 (OECD 203)

ALGAE TOXICITY:

Algal inhibition test are not appropriate. The flocculating characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

EC50/Daphnia magna/43 hr > 10 mg1 (OECD 202)

6/6 CALT-1100PA

BIOACCUMULATION: Does not bioaccumulate.

SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate

### SECTION 14. TRANSPORT INFORMATION

UNINA: NA
Classification: NON D.O.T REGULATED
Poor: Shipping Name: INDUSTREAL WATER TREATMENT COMPOUND, NON D.O.T. REGULATED
D.O.T. Hazard Name: (49CFR 172.101); NONE
D.O.T. ID Number (49CFR 172.101); NONE
D.O.T. ID Number (49CFR 172.101); NONE
D.O.T. Hazard Class (49CFR 172.101); NONE
RCRA Hazard Class (49CFR 172.501; NONE
RCRA Priority pollutants (49CFR 122.53); NONE

HAZARD RATINGS:

HEALTH (NIFPA): 2. HEALTH (HMIS): 2. FLAMMABILITY: 0. PHYSICAL HAZARD: 1

(Personal Protection Rating to be supplied by user based on use conditions.)

This information is intended solely for the use of individuals ratined in the NIFPA & HMIS hazard rating system.

242 CAL-1100W

#### NOTICE

All information, recommendations, and suggestions appearing herein concerning this product are based upon data obtained from the manufacturer and/or recognized technical sources; however, C.C.I. makes no warranty, representation or guaranty as to the accuracy, sufficiency or completeness of the material set footh herein, it is the user's responsibility to determine the safety, exciting and suitability of his own use, handling and disposal of the product. Additional product ifterature may be available upon request. Since actual use by others is beyond our control, no warranty, express or implied is made by C.C.I. as to the effects of such use, the results to be obtained or the stiety and toxicity of the product nor does C.C.I. assume any liability arising out of use by others of this product

#### ATTACHMENT 5 - ANNUAL CROPPING PLAN

#### 5.1 Annual Cropping Plan

Figure 5.1 is the annual cropping plan for the facility. The annual cropping plan will be updated annually to assist the facility in the management of land application practices to ensure that wastewater and associated nutrients are applied at agronomic rates. The facility is permitted to land apply effluent to approximately 61 acres of improved grasses.

Revised June 8, 2023

ENVIRO-AG ENGINEERING, INC Figure 5.1

Field ID	Planned Crop Rotation	Crop Yield (1)	Crop Salt Tolerances (2)	Requirement 1b./Ac (3)	Residual Ib./Ac (4)	required lb./Ac (5)	Wastewater Analysis N lb./Ac-in (6)	Adjusted Plant Available N lb./ Ac-in (7)	Ac-In/Ac of Wastewater to apply (8)	Total Gallons/Ac (9)
A CONTROLLE										
Pivot I Summer	Coastal Hay	2 Cut	80-120	200	16	184	681	5.45	33.8	917.09
Pivot l Winter	Small Grain Hay	2.5 Tons	6.0-8.0	140	0	140	6.81	5 45	25 7	697,79
Pivot 1 Summer	Forage Sorghum Hay	5.5 Tons	60-80	240	91	224	6.81	5.45	41.1	1.116.46
Pivot 1 Summer	Soybean Hav	2.5 Tons	4.0-6.0	180	16	164	189	5.45	30.1	817,41
Pivot 2 Summer	Coastal Hay	2 Cut	80-120	200	22	178	681	5.45	32.7	887,19
Pivot 2 Winter	Small Grain Hay	2.5 Tons	6.0-8.0	140	0	140	681	5.45	25.7	697,791
Pavot 2 Summer	Forage Sorghum Hay	5.5 Tons	60-80	240	22	218	6.81	5.45	40.0	1.086.55
Prvot 2 Summer	Soybean Hay	2.5 Tons	40-60	180	22	158	681	5 45	29.0	787,50

maximum height of 6 to 7 and a minimum of 6 from the ground.

(2) Taken from 30 TAC 309.20(b)(3)(B) Table 3

(3) From USDA-NRCS Code 590/633 "S Crops" database

(4) Taken from annual soil test results from April 4, 2022. All fields will be re-sampled and the annual cropping plan will be updated prior to waste application. It is assumed that residual N will be utilized with the summer crop.

(5) Remainder N required to meet crop demands (crop requirement - residual N).

(6) Taken from the October 19, 2022 weekly irrigation sample at Schreiber Foods, Inc., Erath County.

(7) Availability of N is calculated utilizing 30 TAC 309C.

(8) Acre inch of wastewater to be applied based lb/ac-in available N (remainder crop N divided by adjusted plant N) No additional fertilizer is required at this rate. (1) Expected yields based on historical data from facility and county. The coastal, soybeans and small grains will be harvested at a maximum height of 12" to 15" and a minimum of 4" from the ground. The forage sorghum hay will be harvested at a

<sup>(9)</sup> Total Gallons/Ac to be applied (Ac-In/Ac of wastewater x 27154 = gallons)



# Pace Analytical ANALYTICAL REPORT

#### Schreiber Foods Inc.

Samples Received: Sample Delivery Group: 10/19/2022 L1548022

Description: Project Number

Report To:

Gary McCaffity

Weekly Irrigation

823 CR 176

Stephenville, TX 76401

Entire Report Reviewed By: Harger Show

Reagan Johnson Project Manager

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Sr: Sample Results Cn: Case Narrative Ss: Sample Summary Tc: Table of Contents Col Cover Page

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SS

Sr Cu

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IRRIGATION WATER GRAB L1548022-01

SS

Oc: Quality Control Summary

INF L1548022-05

EFF L1548022-06

ζ.

Sc: Sample Chain of Custody

Gl: Glossary of Terms Al: Accreditations & Locations

Wet Chemistry by Method SM5210B Wet Chemistry by Method 353.2 Wet Chemistry by Method 351,2 Wet Chemistry by Method 1664A

ACCOUNT.
Schreiber Foods Inc.

12085 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

PROJECT

SDG L1549022

DATE/TIME TUDIVEZ 11 18

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Pace Analytical National

SDG L15-18022

DATE/TIME: 11/01/22 11 38

Schreiber Foods Inc ACCOUNT:

PROJECT

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#### SAMPLE SUMMARY

IRRIGATION WATER GRAB L1548022-01 WW			Collected by	Collected date/time - Received	Received date 10/19/22 10:00	0
Method	Barch	Dilution.	Preparation	Analysis	Analyst	Гасивал
			date/time	date/lime		
Chloulated Results	WG1949373	¥	10/29/22 23:10	10/29/22 23:10	CAT	Allen, TX
Wet Chemistry by Mothod 1664A	WG1950352	4	10/31/22 11:03	10/31/22 15:30	굿	Allen, TX
Wet Chemistry by Method 351 2	WG1949505	5	10/23/22 19 07	10/29/22 23:10	CAT	Mt Juliet TN
Wet Chomistry by Method 353 2	WG1949873	-	10/27/22 15:52	19/27/22 15:52	EG	Allen, TX
Wrd Chemistry by Method SM5210B	WG1945317	149	10/19/22 14 56	10/24/22 11:12	RJP	Allen, TX
			Collect db	Collected date/time Received date/time	Received duk	-Vinus
INF L1548022-05 WW			Taranii Giolin	10/18/22 11 15	10/15/22 10:00	0
Method	Birtch	Dilution	Preparation	Amilysis	An ys	Lecinion
Wet Chemistry by Method SM52108	WG1945024	_	10/20/22 10 53	10/25/22 10/18	RJP	Allen, TX
EEE   1548032-05 WW			Called d by	Collected distribute - Received distribute - 10/18/22 1115 - 10/19/22 10:05	Received date	o time
Method	Baich	Dilution	Preparation	Analysis	Analyst	Locution
			dati/time	<b>Gatefinio</b>		
Wet Chemistry by Method SM\$210B	WG19460Z4	_	10/20/22 10 57	10/25/22 10:20	RJP	Allen, TX

ACCOUNT Schreiber Foods Inc

PROJECT

SDG

DATE/TIME: 1V0V221138

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Schreiber Foods Inc

ACCOUNT

PROJECT

L1548022 SDG

DATE/TIME: 11/01/22 11:38

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#### CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOD) values reported for any normanical samples have been corrected for the diultion foctor used in the analysis. All Method and Batch Quality Control are within established criterial except where addressed in this case narrative; a non-confirmance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the iboratory as having the potential to affect the quality of the data have been identified by the iboratory, and no information or data have been knowlingly withheld that would affect the quality of the data.

Hargem Shru

Reagan Johnson Project Manager



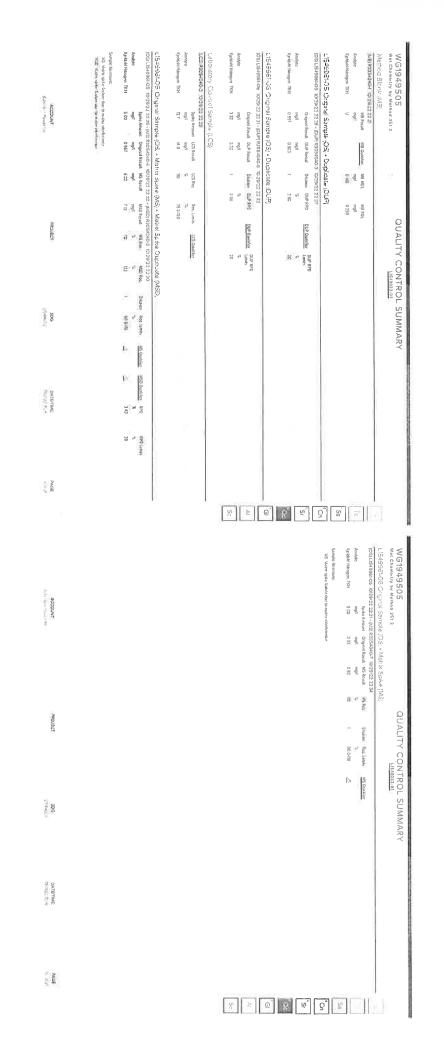


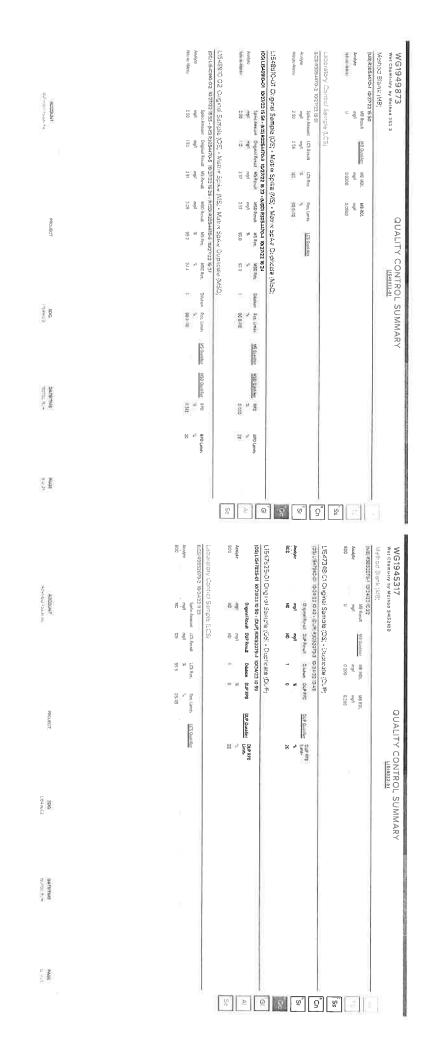




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### GLOSSARY OF TERMS

# Guide to Reading and Understanding Your Laboratory Report

The eformation below is designed to better explain the willow, fithis used in your report of analyzed lessify from the laboratory. This is not intended as a completerative explaination, and if you have additional questions plained conductively output indirect indirect matter.

Results Declaring: "Right and the my separatid by the sustained, and contained within the right, include Permit Limits, Project Name, Sample D. Sample Market, Sample D. Sample Market M

Abbreviations	Abbreviations and Definitions
MDL	Method Detection Limit
ND	Not detrected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit
Rec.	Recovery
RPD	Rolative Percent Difference
SDG	Sample Delivery Group
C	Not defected at the Reporting Limit (or MDL where applicable)
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analyses reported
Dilution	If the sample matter operatins we intenting involver, the sample proposition volume of weight values affer from the sample on righer man the suggest land of concentration that the happening or an executive report to extend they positively of a value of the sample may be disjusted for analysis. If a value of the time is used in this field, the result is propried to a cheek, the contraction to the factor.
Limits	These and the target it recovery ranges or % difference value that the loboratory has historically determined as normal for the method ord implified bring reported. Successful OC Sample analysis will barget all analysis recovered or displacetic when their princip.
Original Sample	The non-spiked sample in the prep batch used to determine the Rebtive Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This occurry position is little should instruct or being nation that corresponds to steptional information concerning the result expended in a Qualifier is present a stratifion per Qualifier is present within the Qualifier by providing within the Gase White the Qualifier is present within the Case White the Qualifier is present a stratific period of the Countries in the Case White the Application.
Result	The dictual aprojetical final install (corrected the very sample specific characteristics) reported the your sample. If there was no measurable result establishment to a specific analysis the social in this column may state; 702; Not Disclosed or "BD." Bellow Disclosed Laurest, The Internation of the results option an specific alloyed between the youther of APD. In the Column of the Column o

#### Confidence level of 2 sigma.

Uncertainty (Radiochemistry)	Confidence level of 2 sigma
Case Narrative (Cn)	A third discussion about the included sample results, including a discussion of any hard-configurations to protocol observed within at sample, receipt by the dispriting from the field or during the individual process. If proson, there will be included the Configuration of Configuration of the Configuration of the Section in the Section in the Configuration of the Section in t
Quality Control Summary (Qc)	This section of the install methadis this installs of the babaratory quality control artifysts required by procedure or analysts) reduced the about it will be about the procedure or analysts in evaluating the youting of the results reported the your samples. Those analyses are not being performed any your samples typicity, such and thorough provinced the procedure or analyses are not

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Sample Chain of Custody (Sc)

This section of your report will provide the security of all usuing performed on your samples. These results are provided by sample (2 and are separated by the sampless performed on expositions to secure line of each analysis section for each sample will provide the name and method number for the realities proporting.

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier

Description

Sample Summary (Ss) Sample Results (\$r)

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램	RPD value not applicable for sample concentrations less than 5 limes the reporting limit.
	14

ACCOUNT Schreiber Foods Inc.

PROJECT:

L1548022 SDG

DATE/TIME:

PAGE: 14 of 21

















# ACCREDITATIONS & LOCATIONS

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Alaska	17-026	Nevada	TND00032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	\$2.0469	New Jersey-NELLA?	TNOOZ
California	2932	New Mexico 1	EGGGONT
Colorado	TND0003	New York	11742
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Pace Analytical Services, LLC -Dallas	LLC -Dallas	400 W. Bethany Drive Suite 190 Allen, TX 75013	
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Sample Condition Upon Receipt

□ Corpus Christi □ Austin

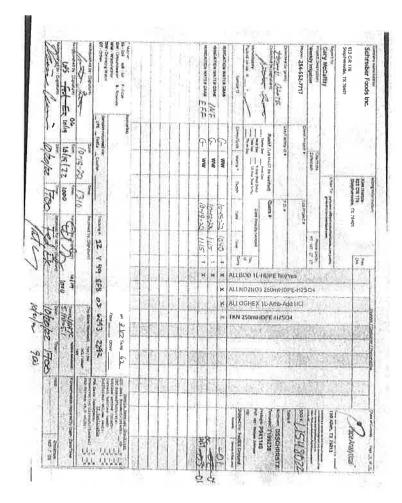
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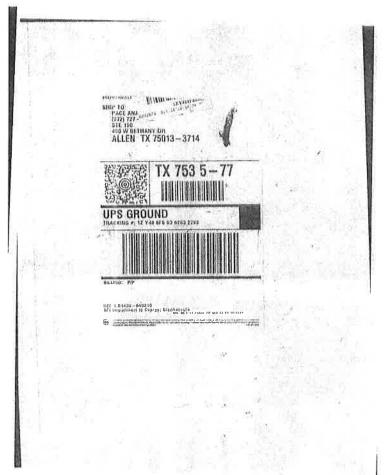
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Login Person: 00 Date: 10/19

Sufficient Volume received	Yes of No ti
Correct Container used	Yes & No a
Container Intact	Yes 7 No o
Sample pH Acceptable pH Strips: Gloos	Yes & No a NA ()
Residual Chlorine Present	Yes o No o NA V
Cl Strips:	Yes D NO D NA d
Are soft samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes n No n NA /
Unpreserved 5035A soil frazen within 48 hrs	Yes o No = NA /
Headspace in VOA (>6mm)	Yes is No E NA (f
Project sampled in USDA Regulated Area outside of Texas State Sampled:	Yes o No c NA g
Non-Conformance(s):	Yes a No/

Labeling Person (if different than log-in); \_\_\_\_\_\_ Date: \_\_\_\_\_





PROPERTY OF	Sample Condition Upon Receipt	Datist ent Ravised: 7/27/20 Page 1 of 1
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Sample pH Acceptable pH Strips: GHDRS Residual Chlorine Present	Yes & No ti NA ti Yes ti No ti NA √
CI Strips:Sulfide Present Lead Acetate Strips:	Yes is No is NA d
Are soil samples (volatiles, 19H) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes a No o NA d
Unpreserved 5035A soil frazen within 48 hrs	Yes a Na o Na d
Headspace in VOA (>6min)	Yes o No o NA V
Project sampled in USDA Regulated Area dutside of Texas State Sampled:	Yes ii No o HA
Non-Conformance(s):	Yes a No.

### ATTACHMENT 6 - WATER WELL INFORMATION

#### 6.1 Water Well Map

Figure 6.1, Water well Map, shows the locations of water wells within ½ mile of the property boundary. Water wells within irrigation fields or adjacent to irrigation fields will be protected with 150-ft buffers.

#### 6.2 Water Well Information

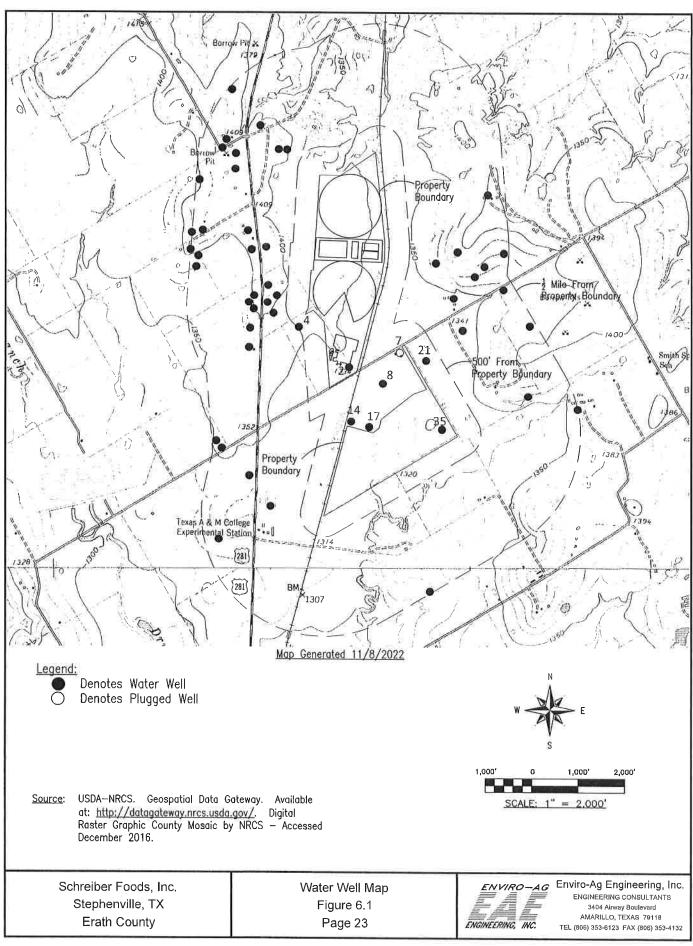
Water well data was obtained from a variety of sources, including on-site inspections, Research, a database research firm in Toronto Ontario, the Texas Water Development Board (TWDB) WIID online database, and the Middle Trinity Groundwater Conservation District. The information provided by Environmental Risk Information Services (ERIS) was obtained from a variety of public sources. ERIS does not ensure and makes no warranty or representation as to the accuracy, reliability, quality, or errors occurring from data conversion or the interpretation of their report. The TWDB WIID database includes data from the TWDB Groundwater Database and Submitted Driller's Reports. ERIS, TWDB and Middle Trinity GCD wells are shown on maps and in the table if the location could be verified on-site or using the well log or district database information. Well information is provided in Worksheet 3-Section 5 of the Technical Report.

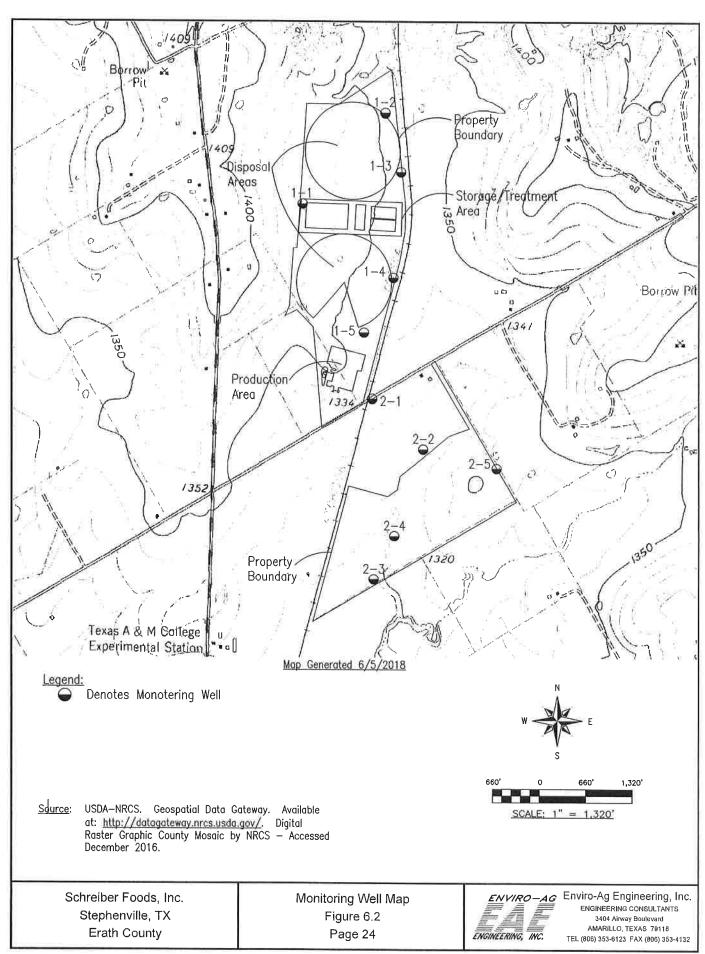
### 6.3 Monitoring Well Map

Figure 6.2, Monitoring Well Map, shows the locations of the existing monitor wells located within the property boundary.

#### 6.4 Monitor Well Information

The facility groundwater monitoring plan and analytical results are included as an attachment to this section.







# Table of Contents

00152

Project Property:

Schreiber Foods Schreiber Foods Stephenville TX 76401

Requested by: **Project No:** Order No:

22100504558

Date Completed:

Enviro-Ag Engineering, Inc. October 12, 2022

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com erisinfo.com



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Property Information:

**Executive Summary** 

Schreiber Foods Stephenville TX 76401

Coordinates:

Latitude:
Longitude:
UTM Northing:
UTM Easting:
UTM Cone:
Target Property Geomety:

32.26630116 -98,1879828 3,570,464.82 576,476.29 14S POLYGON

Project No: Project Property:

SDRW WELLS TCEQ WELL LOGS

26

FED USGS

GWDB WW HIGH PLAINS

WW HARRIS GAL

Total:

14

73

82

State(s) Covered: Zipcode(s) Covered: County/Parish Covered:

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Stephenville TX: 76401 Erath (TX)

\* PO - Property Only

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Executive Summary: Site Report Summary - Project Property

Company/Site Name

90

Мар Кеу TCEQ WELL LOGS

TX Grid No | Owners Name: 31-47-8C | COLLIER RANCH TX WTRSRC | Utility Name: G07200264 | SCHREIBER F000S INC

TX State Well No | Owner: 3147802 | AMP! Cheese Plant

00'0 / 00'0

SCHREIBER FOODS

MUD

7

GWDB

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Direction	ш		MM	8   SOLID ROC	WNW		WNW		WNW		SS	8   KELLY CAS	NW		WW	8   HARVEY WI	w		WN	B   MR TERRY /	ш		SSE	268   SCHREIE	ENE	3 F. E. SUTTO	WNW
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Page Number		133		23		24		24		25		25		25		<del>- 25</del>				26		<u>26</u>		26		27	
Distance (mi/ft)		0.23/		0.23 / 1,235.15		0.24 / 1,269.11		1,290,27		0.26 / 1,375.35		0.27 /		0,27 / 1,412.81		0.28/		0.28 /		0.28/		0,28 / 1,461.17		0.28/		0.29 / 1,539,93	
Direction	Grid No   Owners Name: 31-47-8   ERIC SIMS	MSM	Grid No   Owners Name: 31-47-8U   S J COOK	1356 CR 176 Stephenville TX 76401	Well Rpt Track No: 598115	ESE	Grid No   Owners Name: 31-47-8M   A T GORDON	4267 N. St. hwy 281 WSW Stephenville TX 76401	Well Rat Track Na; 584499	WSW	Grid No   Owners Name: 31-47-8U   C L FENNER	SE	Grid No   Owners Name: 31-47-8   MONTY NEEB	ESE	Grid No   Owners Name: 31-47-8   DON COAN	MNM	Grid No   Owners Name: 31-47-8L   TROY MOORE	WNW	Grid No   Owners Name: 31-47-8D   TROY MOORE	WNW	Grid No   Owners Name: 31-47-8   DEBBIE MOORE	MN	Grid No   Owners Name: 31-47-8   STEVE MCCOY	MS	Grid No   Owners Name: 31-47-8L   H. L. GABHART	*	Grid No   Owners Name: 31-47-8   JIM BACHUS
Company/Site Name Address	Grid I	¥	Grid I	1356 Steph	Heal !	ጟ	Grid A	4267 Steph	Well ?	ጵ	Grid A	¥	Grid A	ዾ	Grid A	Ĭ	Grid A	XT	Grid N	X	Gnd N	艾	Grid N	X	Grid N.	X	Grid N
90		TCEQ WELL LOGS		SORW		TCEQ WELL LOGS		SDRW		TCED WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS	

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																					JENT FARM					
Distance (mi/ft)	0.54/2,864.37		0.54 / 2,875 19	0.56 /		3,022 13	LER	3,111.06		0.60 / 3,169.55		3,409,91		0.56 / 3,507 40		0,67 / 3,519,85	8	3,550.48	JENT STATION	3,550,48	JLTURE EXPIREN	0.69 / 3,623.29	e e	0.70 / 3,710.72		0.71 / 3,728.73
Direction	ш	I ED TATSCH	NNN	SSW	Texas A&M	NNW	K   KENNETH MIL	NN	J. O. BACHUS	ш		NNW		NW	I LLOYD DUNSOR	EN EN	LEVY ALEXAND	SSW	I TEXAS EXPERIN	SSW	N   TEXAS AGRICI	Щ	GORDON TAYLO	SW	F. GRIFFIN	ESE
		Grid No   Owners Name: 31-47-8   ED TATSCH	wy 281 TX 76401 c No: 158018		State Well No   Owner: 3147801   Texas A&M		Grid No   Owners Name: 31-47-9K   KENNETH MILLER		Grid No   Owners Name: 31-47-8   J. O. BACHUS	TX 76401	: No: 203770	6345 NORTH US 281 STEPHENVILLE TX 76401	. No; 375582		Grid No   Owners Name: 31-47-8   LLOYD DUNSON		Grid No   Owners Name: 31-47-8   LEVY ALEXANDER		Grid No   Owners Name: 31-55-2   TEXAS EXPERIMENT STATION		Grid No   Owners Name: 31-55-2N   TEXAS AGRICULTURE EXPIREMENT FARM		Grid No   Owners Name: 31-47-8   GORDON TAYLOR		Grid No   Owners Name: 31-47-8   F. GRIFFIN	
Address	¥	Grid No   Own	6189 N US Hwy 281 Stephenville TX 76401 Well Rpt Track No: 168018	ĭ	State Well No	¥	Grid No   Own	¥	Grid No   Own	325 CR 477 Slephenville TX 76401	Well Rpt Track No: 203770	6345 NORTH STEPHENVIL	Well Rpt Track No: 375582	¥	Grid No   Owne	¥	Grid No   Owne	<u> </u>	Grīd No   Owne	¥	Grid No   Owne	¥	Grid Na   Owne	¥	Grid No   Owne	¥
Company/Site Name																										
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98	TCEQ WELL LOGS		SDRW	GWD8		TCEQ WELL LOGS		TCEQ WELL LOGS		SDRW WELLS		SDRW WELLS		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS
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Page Number					34		351		36		38		37						138		<b>89</b> 1		8		ଛା	
Distance (mi/ft)		0.467 2,451.74		C,+55,+0	0.477 2,480.26		0,47 / 35 2,497,60		0.49 / 2,580,75		0.50 / 2.656,02	YER	0,51 / 3 <u>7</u> 2,699,88		0.51 / 2,713.16		0.52 / 2,750.23		0,527		2,831,60	занам	0.54 / 39	GER	0.54 / 39	
œ.				o+ cc+,7					E 0.49 / 2,580.75			47-8 J C. W. FENNER					W 0.52 / 2,750.23					47-8   WINDLE GRAHAM		47-8 I DAVID BARGER		
Direction Distance (mi/ft)	rack No: 478048	0.46/ 2,451.74			W 0.47 / 2,480.25	ratick Mot. 568793	WNW 0.47 / 2,497.60	rack No: 336571	E 0.49 / 2,580.75	raek No: 562001	0.50 / 2.656.02	Owners Name: 31-47-8 J. C., W., FENNER	0.51 / 2.699 88	ласк Мо: 86020	0.51 / 2.713.16		W 0.52 / 2,750.23	lle 1X 76401 ack No: 74760	0.52 / 2,767.58		0.54 / 2,831.60	wners Name: 31-47-8   WINDLE GRAHAM	0.54 / 2.860.77	wners Name; 31-47-8 ( DAVID BARGER	E 0.547 2.864.37	82
Distance (mi/ft)	Well Rpt Track No. 478048	0.46/ 2,451.74	ENAT, JOE/SANTO PROPA	χ.	0.47 / 2,480.26	Well Rot Track No: 508793	0 47 / 2,497 60	Well Rpt Frack No: 335531	0.49 / 2,580.75	Well Rpt Track No: 562001	0.50 / 2.656.02	Grid No   Owners Name: 31-47-8   C. W., FENNER	0.51 / 2.699 88	Well Rpt Track No: 86020	0.51 / 2.713.16	Grid No I Owners Name: 31-47-8M   TOBY STONE	0 52 / 2,750 23	Stephenville IX 764U1 Well Rpt Track No: 74750	0.52 / 2,767.58	Grid No   Owners Name: 31-47-8   JOE TORRES	0.54 / 2,831.60	Grid No   Owners Name: 31-47-8   WINDLE GRAHAM	0.54 / 2.860.77	Grid No   Owners Name: 31-47-8   DAVID BARGER	0.54 / 2,864.37	82
Direction Distance (mi/ft)	Well Rpt Track No: 478048	W 0.48 / 2.451,74			W 0.47 / 2,480.25	Well Rpi Trinck No. 58879.3	WNW 0.47 / 2,497.60	Well Rpt Track No: 338531	E 0.49 / 2,580.75	Well Rpt Track No: 562001	W 0.50 / 2.656.02	Grid No   Owners Name: 31-47-8 ∤ C, W, FENNER	NW 0.51 / 2.699.88	Well Rpt Track No: 86020	ESE 0.517 2.773.16		W 0.52 / 2,750.23	Staphenville 1 X (34J) Well Rpt Track No: 74780	SW 0.52 / 2,767.58		NW 0.54 / 2.831.60	Grid No   Owners Name: 31-47-8   WINDLE GRAHAM	SW 0.54 / 2.960.77	Grid No I Owners Name: 31-47-8   DAVID BARGER	E 0.547 2.864.37	82
Address Direction Distance (milt)	Well Rpt Track No: 478048	W 0.48 / 2.451,74		Stephenmie I A Futuro Well Rpt Track No: 560729	W 0.47 / 2,480.25	Well Rpi Track No. 50879.3	WNW 0.47 / 2,497.60		E 0.49 / 2,580.75		W 0.50 / 2.656.02	Grid No   Owners Name: 31-47-8 J. C., W., FENNER	NW 0.51 / 2.699.88	Well Rpt Track No: 96000	ESE 0.517 2.773.16		W 0.52 / 2,750.23	Stephenville 1X 764U1 Well fax frack No: 74760	SW 0.52 / 2,767.58		NW 0.54 / 2.831.60	Grid No   Owners Name: 31-47-8   WINDLE GROAHAM	SW 0.54 / 2.960.77	Grid No   Owners Name: 31-47-8   DAVID BARGER	E 0.547 2.864.37	82

Plotted Water Wells

Eris Areas with Higher Elevation
Eris Areas with Saine Elevation
Eris Areas with Lower Elevation
Eris Areas with Unknown Elevation

Project Property 1 1 Buffer Outline

A Eris Siles with Higher Elevation

Eles Siles with Same Elevation

First Siles with Lawer Elevation

Eles Siles with Lawer Elevation

Eles Siles with Unknown Elevation

Eles Siles with Unknown Elevation

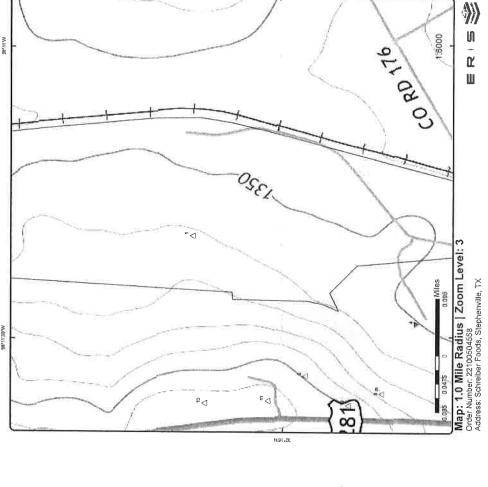
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Page Number

Distance (mi/ft)

Direction

Address

Company/Site Name

90

Мар Кеу

Grid No | Owners Name: 31-47-8 | BERT WRIGH

41

0.77 / 4,069.64

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Grid No | Owners Name: 31-47-8 | LARRY REAVIS

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TCEQ WELL LOGS

8

TCEQ WELL LOGS

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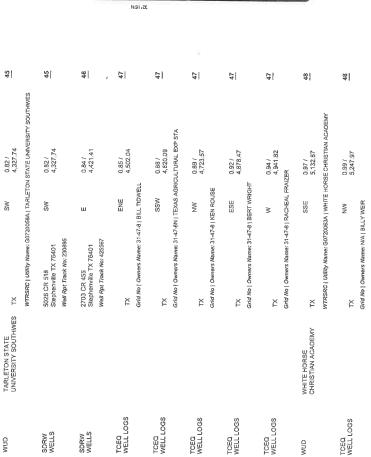
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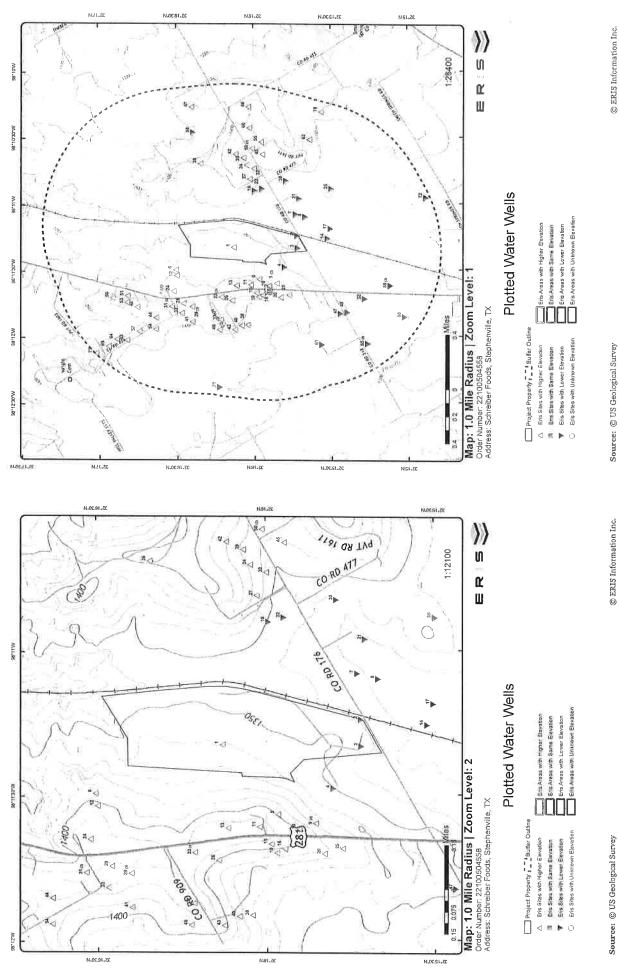
0.81 / 4.293.96

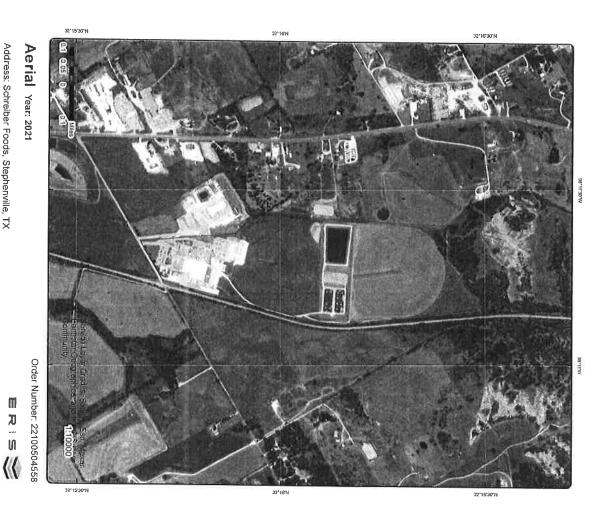
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TX
Grid No | Owners Name: 31-47-8 | TOM CRAWFORD



Source: © US Geological Survey





State Well No.
GMA:
RMPA:
GCD:
Wall Type:
Paump:
Power Type:
Power Type:
Well Rep Track No.
Plug Rep Track No.
USGS Site No.
USGS Site No.
USGS Site No.
Owner Well No.

1 of 1

0.00/

GWD8

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Address: Schreiber Foods, Stephenville, TX

Source: ESRI World Imagery

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Classification: Aquifer Pick Mtd:

G0720026A

Order No: 22100504558

## Detail Report

Latitude:	Depth Drilled:	Static Level:	Water Usage:	County:	Owners Name:	Date Drilled:	Grid No:	(#V)	Мар Кеу
	17				19:			1 of 1	Number of Records
-98_19150927116219 32_27508631788818	230	193	DOMESTIC	ERATH	COLLIER RANCH	06/18/1971	31-47-8C	MIN	Direction
16219 8818					앞			0.00 /	Distance (mi/ft)
								ᄁ	Site
								TCEQ WELL LOGS	DB

2 1 of 1	Ś	0.00/	SCHREIBER FOODS		WUD
			אָז		
PWS ID:	0720026		Segment:		
WTRSRC:	G0720026A		System Sta:	ACTIVE	
ID No:	G0720026A		Contact Phone:	254-552-7736	
St Well No:	3147802		Primary Co:	JUSTIN GROTE	
Operating Status:	OPERATIONAL		Contact Ti:	OPERATOR	
Well Depth:	450		Utility Name:	SCHREIBER FOODS INC	
Water Usag:	ACTIVE - PERMANENT		Utility Na:	SCHREIBER FOODS	
Static Lev:			Aquifer	218TRNT	
Date Drilled:	08/01/1988		Waterbody:		
Compliant	Yes		Latitude:	32,26197222	
Screen Bottom:	450		Longitude:	-98 18736667	
Screen Top:	400		Hdalum:	83	
Gallons Per Minute:	80		Harz Meth:	DOG	
Depth Agen:	DRILL		Horz Acc:	15	
EPID:	001		Horz Ref:	STRUC CEN	
Type:			Horz Date:	06-Feb-2007	
CAD No:			Horz Org:	TCEQ	
Constr.	-		Horz Datum:	NAD83	
Confine:	4		Quadnum:	3298-142	
CCN:			Ownr Des:		
Alluvial-	Z				

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License No: PWS No: Plug Rpt Track No: Well Rpt Track No: Orig Well Rpt Trk N. Apprentice Reg No: No of Wells Drill:		Grid No: Date Drilled: Owners Name: County: Water Usage: Static Level: Depth Drilled: Longitude: Latitude:		Top Depth: Bottom Depth: Bottom Depth: Diameter: Casing Type: Casing Type O Casing Materia Schedule: Casing Materia Gauge:	Top Depth: Bottom Depth: Diameter: Casing Type: Casing Material: Schedule: Casing Material: Schedule: Casing Material: Gauge:	Well Casing	Ree Prev State Well No: Prev State Well No: Created Date: Last Update Date: Latitude DD: Diat: Latitude DD: Diong: Ming: Slong: Mong: Slong: S
License No: PWS No: PWS No: Plug Rpt Tack No: Well Rpt Tack No: Orig Well Rpt Trk No: Apprentice Reg No: No of Wells Drill:	1061	ed:	1 of 1	Top Depth: Bortom Depth: Diameter: Cassing Type: Cassing Type Other Desc: Cassing Material: Schedule: Cassing Material Other Desc: Cassing Material Other Desc:	Top Depth: Bottom Depth: Diameter: Diameter: Cassing Type Other Desc: Casing Material: Schedule: Casing Material: Gauge:	R SUCCES	Characteris Records  Characteris Records  Characteris Records  Characteris Rel No.  Characteris Rel No.  Characteris Rel No.  Characteris Rel No.  Water Level.  15  Marcharter 15
2317 214325				SC:	sc: 		1994-09-20 1998-07-08 None 32,2619450 32,2619450 32,2619450 32,2619450 32,2619450 34,15 43,17 44-17,18econd AMPI Cheess
	MSM	31.47-8 02/21/2001 MILK TRANSPOR ERATH PUBLIC SUPPLY 260 449 98.193486 32.266297	SW	0 400 Blank Steel	400 450 8 Screen Steel	Giodingwater	1994-09-20 1998-07-08 None 207-08 See 19450 32-26 19450 32-26 19450 32-36 19450 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
	0.12/ 645.10	31-47-8 02/21/2001 02/21/2001 02/21/2001 ERATH THE SUPPLY PUBLIC SUPPLY 280 49 192488 49 192488 32 186227	0.11 / 562.28			HIGORNE (GWIDD)	(mi/ft)
Well Addresst: Well Addr?: Well City: Well Zip: Owner Well No: Owner Addr1:	콨		77.			ojulitywalet Jalabase (9870) Rejio Is, 910 silajienie di 98700 weni obalions	Driller  Driller  Well Depth: Well Depth: Land Surf Elevation: Land Surf Elevation Lilling Bonth: Drilling Month: Drilling Month: Drilling Monthod: Drilling Monthod: Bone Hole Compl: County: River Basin:
bryon buchanan po box 244						o well additions	Dowell 450 450 Onlier's Log 1338 Unterpolated From Topo Map 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
at	SDRW WELLS		TCEQ WELL LOGS				}

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a	Grid No: Date Drilled: Owners: Name: County: Water Usage: Static Level; Depth Drilled: Longitude: Latitude:	Grid No: Grid No: Date Drilled: Owners Name: County: Water Usage: Static Level: Static Level: Longitude: Longitude: Latitude:	Map Key Numbe Map Key Numbe Map Key Numbe Map Key Mecorro  Date Submitted: Type of Who Oth Descr: Saal Method: Saal Saal Saal Method: Saal Submitted Proposed Use: Prop Use Oth Descr: Comple by Manne: Saaled by Driller: Saal Method: Saal Saal Method: Composition Saal Method: Saal Me
1 of 1	1 of 1	1 of 1	g'
SSE	31-47-8 04/14/1993 LOUIS BOL ERATH DOMESTIC 31 32 88:184679 32.282144	NWW 31-47-8 31-47-8 09/30/1993 COLLERE CERATH ENATH DOMESTIC 340 098 19152 32 274186	ther Well on the property of t
0.15 / 777.32	באפה	993 7 & SON	base
	J.		(mi/H)
923 County Road 176 Stephenville TX 76401	×	×	Owner Addr2: Owner City: Owner City: Owner State: Owner State: Owner State: Owner Country: Order Address1: Owner Country: Order Address1: Order Oth Contry: Order State: Order Other Order State: Order Other Dist to Sap Contam: Dist Sean Datum Type: Elevation: Latifude: Long Minute: Latifude: Long Minute: Latifude: Long Second: Long Second: Long Second:
			dennis TX T75439 Jerry Glen Fronterhouse 30 1 hwy 2921 deleon TX 76444 32.286112 32 68 19 98 11 34
SDRW WELLS	TCEQ WELL LOGS	TCEQ WELL LOGS	District Control of the Control of t

BO3434	or ho:         Principe of Princip							
804044 Well Address1: Well Address2: Well Address3: Well Ciby: Stephenville Well Right Ciby: 76401  2022-05-17 Owner Address3: Owner Address3: 128 Cannollo Dree Owner Ciby: Well Control of Mark Address3: 128 Cannollo Dree Owner Ciby: Well Control owner Ciby: Well Ciby: Well Control owner Ciby: Well Ciby: Wel	B0404   Distance   Site   Well Address1:   B23 County Road 175   Well Address2:   Well Address3:   B23 County Road 175   Well Address3:   Well Address3:   B23 County Road 175   Well Address3:   Well Address3:   Well Address3:   B23 County Road 175   Well Address3:   B23 County Road 175   Well Address3:   B30 County Road 175   Well Address3:   County Road 175   Well Address3:   County Road 175   County R				2	31-47-8 0621/1985 ROY ED GRIFFII ERATH DOMESTIC 300 360	THE!	Grid No: Date Drilled Owners Nar County: Water Usag Static Level Depth Drille
804044 Well Addresst: 923 Countly Road 175 Well Addresst: Well Addresst: 923 Countly Road 175 Well Addresst: Staphanville Well Addresst: Staphanville Well City: 76401  Owner Mell No. CDS STXOC 2021 LLC 2022-05-17 No. 2022-05-18 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 2022-05-19 202	Substance   Site   Substance   Site   Substance   Site   Substance   Site   Substance	TCEQ WELL LOGS		ಸ	0.16 / 824.26	WS	2 of 2	
\$50.004    Well Addresst:   923 County Road 175     Well Addresst:   Well Addresst:   Staphenville     Well Addresst:   Well Addresst:   Staphenville     Well Zip:   Well City:   75401     Owner Mell No:   Owner Addresst:   75401     2022-05-17   Owner Addresst:   125 Cametot Drive     Pressure   Owner City:   Owner City:   Vin     2022-05-18   Owner City:   Vin     2022-05-19   Owner City:   Vin     2022-05-11   Owner City:   Vin     2022-05-12   Owner City:   Vin	B0404   Well Address1: 923 County Road 176					280 360 -98.193299 32.264233	ď.	Static Level: Depth Drillec Longitude: Latitude:
804044 Well Addresst: 923 County Road 176 Well Addresst: Well Addresst: 923 County Road 176 Well Addresst: Staphenville Well Zip: 78401 Well Zip: 78401  Owner Addresst: 125 Cametol Drive Pressure Owner Addresst: 125 Cametol Drive New Well Pressure Owner Addresst: 125 Cametol Drive Owner Addresst: 125 Cametol Drive Owner Addresst: 125 Cametol Drive Owner Cip: 78401 Owner Cip: 94335 Owner Cip:	Section   Distance   Site				Z	12/04/1991 ROY ED GRIFFII ERATH DOMESTIC	ne:	Date Drilled: Owners Nam County: Water Usage
### \$1,000   Well Addresst; Well Chr.   Well Chr.   Well Chr.   Well Chr.   Owner Well No: Owner Mell No: Owner Addresst; 2022-05-11   Owner Chr.	Mell Addresst:   923 County Road 175	TCEQ WELL LOGS		77	0.16 / 824.26	SW SW	1 of 2	
### ### ##############################	B0404   Well Address!: 923 County Road 175			Location (Map)	se; SDRDB Well	Full SDR Databa	, et	ata Sourc
\$50404 Well Addresst; Owner Mell Addresst; 2022-05-17 Owner Addresst; 2022-05-11 Owner State: Owner Addresst; 2022-05-11 Owner Addresst; 2022-05-11 Owner Addresst; 2022-05-11 Owner Addresst; 2022-05-11 Owner Clay: Owner	Mail Address!   923 County Road 175				Services, Inc		Vame: ion Description :	ompany / Vell Locati omments
\$50.004  **Well Addresst: Well Addresst: Owner Mell Addresst: Owner Mell Addresst: Owner Mell Addresst: Owner Owner Addresst: Owner Owner Addresst: Owner	Mell Addresst: 923 County Road 175		6	Long Second:		47-B	•1	Grid Na:
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### ### #### #########################	Mell Addresst: 923 County Road 175		15 40	Lat Second:		400.00		ump Dep
50404   Well Address1;   Well Address2;   Well Address3;   Well Address2;   Well City;   Owner Address2;   Owner City;	B0404		32	Lat Degree:		Submersible		ump Type
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6:0404 Well Address!:  Well Address!:  Well Address!:  Well Address!:  Well Address!:  Well Address!:  Owner Well No:  Owner Mell No:  Owner Address!:  Owner Onther Name:  Owner Onther Address!:  Oriller Address!:  Oriller Address!:  Oriller Address!:  Oriller Onther Onther:  Oriller Onther:  Oriller Onther:  Oriller Onther:  Oriller Onther:  Oriller Oth Onthy:  Oriller Onther:	Records		Customer	Dist Verifi Method:		Cura Caracas		Apprentice
6:0404 Well Address!:  Owner Address!  Owner Cap.  Owner Address!  Owner Cap.  Owner Address!  Owner Cap.	Distance   Distance		150	Dist to Septic Tk:			e:	Sealed by
59404   Well Address!:	Mel Adress1: 923 County Road 176   Well Address1: 92401   Well Address2: 92401   Well City: 92401   Person Reme: County Address2: 9222-05-17   Owner Address2: 9222-05-11   Owner State: 9433   Owner County: 9433   Person Reme: 9433   Owner County: 9433   Owne		150	Dist to Sep Contam:		Yes	•	Sealed by
59404   Well Addresst:   Well Addresst:   Well Addresst:   Well Addresst:   Well City:   Owner Addres:   Owner Addres:   Owner Addres:   Owner City:	Distance   Distance			Driller Oth Cntry:		Ype		Apprve by
50404   Well Addresst:   Well Addresst:   Well Addresst:   Well Addresst:   Well City:   Owner Mell No:   Owner Address:   Owner Address:   Owner City:   Owner Address:   Owner City:   Owner	Distance   Site   Well Address1:   923 County Road 176   Well Address1:   923 County Road 176   Well Address1:   923 County Road 176   Well Address2:   Stephenville   Well Zich:   76401   Well City:   76401   Well City:   76401   CDS STXOC 2021 LLC   Owner Address:   2022-05-17   Owner Address:   205 Camelot Drive   Owner City:   Fon Du Llac   Owner City:   Well Zich:   54935   Owner Country:   Owner Country:   S4935   Owner Country:   Owner		76401	Driller Zip:			rove Plans:	TCEQ App
60404 Well Addresst: Well Addresst: Well Addresst: Well Edy: 605325 Well E	Maintee   Main		Stephenville	Driller City:		Industrial	Ose: Oth Descr:	Prop Use (
60404 Well Addresst:  Well Addresst: Well City: 605328 Well City: Well City: Well City: Well City: Well City: Owner Well No: Owner Well No: Owner Addr2: Owner Addr2: Owner Addr2: Owner City: New Well Owner State: Owner Country: No Driller Name: Owner Country:				Oriller Addr2:		2022-05-16	d 0t:	Drilling En
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59404   Well Addresst:   Well Addresst:   Well Addresst:   Well City:   Owner Addres:   Owner Addres:   Owner City:   Own	## Distance   Site			Owner Country:		5	Oth Desc:	Seal Withd
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60404  Well Address1: Well Address1: Well City: O: 608326  Well City: Well City: Well City: Ourner Well No: Ourner Well No: Ourner Addr2: Owner Addr2: Owner Addr2: Owner Addr2: Owner Addr2: Owner Addr2:	Neurope   Neur		WI Du Lac	Owner State:			COth Descr.	Typ of Wri
60404 Well Address1:  Well Address1:  Well Address  O:  Well City:  Well City:  O:  Ourner Well No:  Ourner Marne:  Ourner Addri:  Owner Addries  Owner Addries  Owner Addries  Owner Addries  Owner Addries  Owner Addries	### ##################################			Owner Addr2:		2022-05-17 New Well	nitted:	Date Subn Type of W
60404 Well Address1: Well Address1: Well City: 605326 Well City: Well Zich: Owner Well No: Owner Well No:	ds		125 Camelot Drive	Owner Addr1:		_	s Drill:	No of Well
60404 Well Addresst: Well Addres Well City: 605328 Well City: Well City:	Records		OD8 8TX00 2024 110	Owner Well No:			Rpt Trk No:	Orig Well I
60404 Well Address1: Well Addr2:	Records (mift)  Records (mift)  Well Addresst: 923 County Road 175  Well Address: 923 County Road 175  Well Address: 923 County Road 175		76401	Well Zip:		605326	rack No:	Well Rpt T
	Records (mift)		923 County Road 176	Well Address1: Well Addr2:		60404	0:	License No: PWS No:
	Records (mi/ft)							
(milft)	Walliot of Offection Distance Site	,			(mi/ft)			

	Colton Aardal P, O. Box 16 Stephenville	Owner Country: Driller Name: Driller Address1: Driller Addr2: Driller Addr2:		No 2005-07-06 2006-07-06 Domestic	Seal mind on Desc: Plugged w/i 48Hrs: Drilling Start Dt: Drilling End Dt: Proposed Use:
	Staphenville TX	Owner City: Owner State: Owner Zip:		New Well Pumped	Type of Work: Typ of Wrk Oth Descr. Seal Method:
	Dean Taylor P. O. Box 137	Owner Well No: Owner Name: Owner Addri:		2011-05-26	Apprentice Reg No: No of Wells Drill: Date Submitted:
	z miles North US Highway 281 Stephenville	Well Addr2: Well City: Well City: Well Zip:		254530	PWS No: Plug Rpt Track No: Well Rpt Track No:
SDRW WELLS	287	2 miles North US Highway 281 Stephenville TX	0.17/ 891.89	MNN	12 1 of 1
		CHILL CES.		z	Alluvial:
	3298-142	Quadnum:		4	CCN:
	NAD83	Horz Datum:		-	Constr:
	08-Mar-2006	Horz Date:			Type: CAD No:
	15 STRUC_CEN	Horz Acc: Horz Ref:		ORICL 001	EPID:
	DOQ	Horz Meth:		65	Gallons Per Minute:
	-98 19348611	Longitude:		389	Screen Bottom: Screen Top:
	32.26703056	Waterbody:		Ves	Compliant:
	MILK TRANSPORT SERVICES 218TWMT	Otility Na: Aquifer:		ACTIVE - PERMANENT	Static Lev:
LLC	WESTERN DAIRY TRANSPORT LLC	Utility Name:		449	Well Depth:
	VICTOR M ASHE	Primary Co:			St Well No:
	ACTIVE	Segment: System Sta:		0720040 G0720040A	PWS ID:
		×			
WUD	ICES	MILK TRANSPORT SERVICES	0.17/ 887.84	WSW	11 1 of 1
				32,265058	Latitude:
				-98 19362B	Langitude
			Ċ	420	Death Drilled
			9	CHURCH	Water Usage:
				ERATH	County:
		MHALL	JEHOVAH WITNESS KINGDOM HALL	JEHOVAH WITT	Owners Name:
				31-47-8	Grid No:
TCEQ WELL LOGS		콨	0,16/ 837.29	MSM	10 1 of 1
				-98,193299 32,264233	Latitude:
DB		Site	(mi/ft)	٩	Records

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Addition military and and an interpretation of the	Apprentice Signed: James Lindley Sr	6.	sealed by Uniter: Yes	.,	9	che Approve Flans:	TOP OSE ON DESC.	Pro Uso Oth Dogo				Plugged w/i 48Hrs: No	Seal Mthd Oth Desc:	Seal Method: Poured	Typ of Wrk Oth Descr.	Type of Work: New Well	Date Submitted: 2022-02-26	No of Wells Drill: 1	Apprentice Reg No:	ō	Well Rpt Track No: 598116	Plug Rpt Track No:	PWS No:	icerse No:			14 1 of 1 S		Loughtude: -90,190941	907	sage:	e.	lled:	Grid No: 31-47-8		į	13 10/1 W	Data Source:	on Description:	y Name:		Lac Error:			Chemical Analysis: No	ar Desc.	Pump Type: Spannersone	riller:	Surf Comp Oth Desc:	Surface Compl: Surface Steeve Installed	ned:		Sealed by Name: Associated Services-Collon	control by Driller: No	Apprve by Variance:	TCEQ Approve Plans:
																										952.37	0.18/					Ź				947.96	0 18 /	Poase; SUKUB W		rvices												-	lion			
DIST KENN MENIOO.	Dist to Prop Line:	Dist to Septic Tk:	Dist to Sep Contam:	Driller Country:	Driller Oth Catry:	Uniler Lip:	Dritter State:	Diller City.	Driller City	Orillar Addr	Orillar Addrassi.	Driller Name:	Owner Country:	Owner Zip:	Owner State:	Owner City:	Owner Addr2:	Owner Addri:	Owner Name:	Owner Well No:	Well Zip:	Well City:	Well Addr2:	Man Address of	Stephenville TX 76401	1356 CR 176									ス			THE WORLD WAS LOCATION (Map)			1	Long Second:	Long Minute:	Long Degree	Lat second:	lat Second	Lat Degree:	Latitude:	Elevation:	Horizon Datum Type:	Dist Verifi Method:	Dist to Prop Line:	Dist to Seption:	Driver Country:	Driller Oth Catry:	Driller Zip:
						76067	->	TV	Mineral Wells		3633 South Hww 281	James W Lindley Sc		54935	WI	Fond du Lac		125 Camelot Dr	CDS STXDC 2021, LLC		76401	Stephenville	000	1356 CD 176																		32	11	98	-9B 192222	30 50	33 K	32.275			Customer Verified	50				76401
																										SURW WELLS	SOURCE OF SOURCE								WELL LOGS	TCEQ																				

ensinfo.com | Environmental Risk Information Services

Order No: 22100504558

Licentas No.  PWS (No.  PWS (No.  Well Rept Track No.  Well Rept Track No.  Orig Well Rept Track No.  Apprendice Reg No.  No of Wells Delli:  Date Submitted:  Type of Work Oth Descr.  Type of Work Oth Descr.  Seal Mintd Oth Descr.  Seal Mintd Oth Descr.  Plugged will 48Hrs:  Plugged will 48Hrs:  Duffling Stan Ott  Duffling Band Ott  Duffling Band Ott  Proposed Use:	17 1 of 1	Grid No: Date Drilled: Ownes Name: County: Water Usage: Static Lavel: Depth Drilled: Longitude: Latitude:	16 1 of 1	Grid No: Date Drilled: Owners' slame: County; Water Usage: Static Level; Depth Drilled: Longitude: Latitude:	15 1061	Surface Comp! Surf Comp Oth Dasc: Compit by Driller: Pump Type Oth Dasc: Pump Type Oth Dasc: Pump Type Analysis: Pump Popth: Chemical Analysis: Pump Depth: Pump Depth: Pump Comm: Analysis: No Comment Name: Wall Cocation Description: Comments: Data Source:	Map Key Number of Records
\$9352 \$98115 1 2022-02-26 New Welf Poured No 2022-02-17 2022-02-17 1769elion	s 0.1	31-47-8U 0501/1984 S.J.COOK EPATH DOMESTIC 330 368 -98.194751 32.265774	WSW 0.	31-47-B 06/08/1985 ERIC SIMMS ERATH OOMESTIC 300 410 -98 1994-156956439247552976	WSW 0,	ufface S es ubmersi 00.00 o o rath o 1-47-8	Direction
Well Address!: Well City: Owner Addres: Owner Addres: Owner Addres: Owner City: Owner City: Owner City: Owner Country: O	0.23 / 1,235.15 1356 CR 176 Stephenville TX 76401		0.23 / 1,194.41 7X		0,22 / 1,168.88 TX	ligere installed  Horizon Datum Type: Elevation: Lat binde: Lat Degree: Lat Oegree: Lat Speree: Lat Minute: Lat Sepree: Lat Minute: Long Minute: Long Second: Long Second: Long Second: Long Second: Long Second: Long Second:	Distance Site (mi/ft)
1356 CR 176 Slephenville 75401 CDS STXDC 2021, LLC 125 Carneto Dr Fond du Lac WI 54935 James W Lindley Sr 3633 South Hwy 281 Mineral Wells						pe: 32,259886 32 15 31,27 31,27 31,27 98,187693 98	
	SDRW WELLS		TCEQ WELL LOGS		TCEQ WELL LOGS		DB

Apprentice Signed:	Driller Signed:	Sealed by Name:	sealed by Driller	LOC VIY OY DIMBIT	for the bullet	Appropriate Vacance	TOTO Approve Plans:	Prop Use Oth Descr	Proposed Use:	Drilling End Dt:	unling start ut:	Flugged Wil 48Hrs:	Birmand Out Desc.	Soul Mind Oth Doors	Cool Mothed:	Typ of Wek Oth Descer-	Type of Work:	Date Submitted	No of Wells Drill:	Appropriate Box No.	OF Mail Dat The No.	Well But Track No:	PWS NO.	License No:				19 1 of 1				Latitude:	Longitude:	Depth Drilled:	Static Level:	Water Usage:	County:	Owners Name:	Dare Dulled:	Grid No.				18 1 of 1			Data Source:	Comments:	Well Location Description:	Company Name	Grid No.	Known Loc Error:	County	Injurious Water:	Chemical Analysis:	Pump Depth:	Pump Type Oth Desc:	Fump Type:	Comple by Uniter:	surr comp on pesc:	Salvace Compi.	Apprender organic	Appropriate Sizzandi	Driller Signed	Sealed by Name:	Sealed by Driller	Loc Viy by Driller:	Apprve by Variance:	CER Approve Mans:	TOTO Approximation
	Justin Dowell		res	- es	Yas				Domestic	2021-09-08	80-60-1202	No	7	000000000000000000000000000000000000000	P		New Well	2021_09_23	<b>-</b>		504133	584460		56066				MSM				32,263886	-98,175776	320	260	DOMESTIC	ERALH	A I GORDON	10/12/10/1	VI-147-101				ESE		10	Full SDR Datab			Mnore's Water Well Service	31-47-8	No	Erath	No	No	400.00		Submersible	Yes		Panera Stand Stand	January Charles 1	James Lindley Ci	lamps Lindley Sr	į	Yes	Yes			
																											1,290.27	0.24/															1,269.11	0,24/		15	Full SDR Database SDROB Well Location (Man)		001100	Well Service																				
Dist Verifi Method:	Dist to Prop Line:	Dist to Septic Tk:	Dist to Sep Contam:	Driver Country:	Comer our city.	Dellar Oth Carry	Dellar Zin:	Orillar State	Driller City:	Driller Addr2:	Driller Address 1:	Driller Name:	Owner Country.	Omici cip.	Owner State.	Owner Chies	Owner City	Owner Addr.	Owner Addri	Owner Well No:	Wen Zip:	Well City:	Well Addrz:	Well Address1:		Stephenville TX 76401	4267 N. St. hwy 281															אָ					Location (Man)					Lang Second:	Long Minute:	Long Degree:	Langitude:	Lat Second:	Lat Minute:	Lat Degree:	Latitude:	Elevation:	nonzon patein type.	Dist perm mediod.	Dist to Frob Line.	Dist to Broot inc.	Dist to Septic Tk:	Dist to Sep Contam:	Driller Country:	Driller Oth Cntry:	urmer up:	Daillou Time
owner	51+	55+	105+				1	ĬX.	Slephenville		PO Box 402	Justin W Dowell		040	75/01	Z CEDITED	Obobowillo	The state of the s	4267 N. St. hwy 281	Davis cina	/6#01	Siephenville	?	4267 N. St. hwy 281																												11.3	=	98	-98 1B6473	30.16	15	32 2	32,258379										19091	75057
																											SDRW WELLS															WELL LOGS	Ced	TGGO																										
			23	2	1		-	l atitude:	Longitude:	Depth Drilled:	Static Level:	Nater	Water I	Carrie	Date Dilled.	Date D	Cold Mo.			22	}	Ï		Latitude:	Longitude:	Depth	Static Level:	Water	County:	Owner	Date Drilled:	Grid No:				21				Lantude:	Longitude:	Depth	Static	Water	County:	Owne	Date C	Grid No:			9	20			Data S	Comments:	Well	Comp	Grid No:	Know	County	mjuno	chen	2000	o dino	Pump	Pump	Comp	Sur	
(1000)			7 of 3				1	Ď.	ide:	Drilled:	evel:	Water Usage:		Carrier S Marine.	Marc.	rillad:	,			7 of 7				le:	ude:	Depth Drilled:	Level:	Water Usage:		Owners Name:	rilled:	0.				1 of 1				že:	ude:	Depth Drilled:	Static Level:	Water Usage:	Y.	Owners Name:	Date Drilled:	a.				1061			Data Source:	rents:	Well Location Description:	Company Name:	lo:	Known Loc Error:	У.	munous water.	Chemical Analysis:	Caper.	Denth:	Pump Type Oth Desc	Type:	Complt by Driller:	Surf Comp Oth Desc:	odiraca compi.
			WWW					32.265771	-98,181423	400	310	DOMESTIC	COMPANIE	0070	DON COAN	01/24/1990	31-47-8			ESE				32 26174	-98 182679	357	NOT REPORTED	DOMESTIC	ERATH	MONTY NEEB	12/23/1987	31-47-8				SE				32,263803	-98 19503	460	350	DOMESTIC	ERATH	C L FENNER	12/25/197B	31-47-811				MSW			Full SDR Da		on:	Dowell Well Service	31-47-8	20	Elath	10	N					Yes		Same session neuman
		1,456.89	0.28/																1,412.01	0.277							RTED			8					1,409.27	0.27/										20				1,010,00	4 275 35	1361			Full SDR Database; SORDB Well Location (Map)			Service												
	Ż																	14	ł															×															<i>/</i> A	į					Vell Location (Mag					Long Second:	Long Minute:	Long Degree:	Longitude:	Lat Gecolu.	I at Second	Lat Minute:	f at Dec	Latifude:	Elevation:	COLLEGE OF CHILD

Order No: 22100504558

TCEQ WELL LOGS

TCEQ WELL LOGS

TCEQ WELL LOGS

DB

Map Key Number of Records

Direction

Distance (mi/ft)

Site

80

Map Key Number of Records

Distance (mi/ft)

Surface Sieeve installed Direction

32 266167 32 15 58.2 -98 194972 98 11 41.9

TCEQ WELL LOGS

Grid No: Date Drilled: Owners Name: County: Water Usage: Static Level: Depth Drilled:	25	Grid No: Date Drilled: Owners: Nama: County: Water Usage: Static Level: Depth Drilled: Longitude: Latitude:	24	Grid No: Date Drilled: Owners Name: County: Water Usage: Slatic Level: Depth Drilled: Longitude: Latitude:	23	Grid No: Date Drilled: Owners: Name: County: Water Usage: Static Level: Depth Drilled: Longitude: Latitude:	23	Date Drilled: Owners Name: County: Water Usage: Static Level: Depth Drilled: Longitude: Latitude:	Мар Кеу
	1 of 1	ed: ::	1 of 1	POT THE THE	3 of 3	of The me.	2 of 3	о́ е. — ве	Number of Records
3147-8L 12201975 H. L. GABHART ERATH DOMESTIC NOT REPORTED 30	WS	31-47-8 08/11/1987 STEVE MCCOY ERATH DOMESTIC 380 460 -98.194136 32.275353	WN	31.47.8 03/03/1992 DEBBIE MOORE ERATH DOMESTIC 75 122 -38,194965 32.269483	MMM	31-47-8D 04/20/19/4 TROY MOORE ERATH NOT REPORTED 300 374 -98.195232 32,268198	MNM	10/22/1982 TROY MOORE ERATH DOMESTIC 370 450 -98 195232 32 258198	Direction
	0.28 / 1,462.63		0.28 / 1,461.17	ñ	0.28 / 1,456,89	Ü	0.28 / 1,456.89		Distance (mi/ft)
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WELL LOGS	ヌ	1,802.02		
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	Localion (Map)	Full SDR Dalabase; SDRD8 Well Localion (Map)	Full SDR Datat	Data Source:
				Well Location Description:
		Nice	Dowell Well Service	Сотралу Мате:
	Long Second: 48.6		No.	Known Loc Error.
			Erath	County:
	ě.		No.	Injurious Water:
67			No	Chemical Analysis:
	Lat Second: 1.6			Pump Denth:
	Lat Degree: 32		Submersible	Pump Type:
			Yes	Complt by Driller:
	Elevation:			urf Comp Oth Desc:
	ě		Surface Sleeve Installed	Surface Compl:
	Dist Verifi Method: wheel		Justiu Domeii	Driller Signed:
				Sealed by Name:
	m:		Yes	Sealed by Driller:
			Yes	Loc Viy by Driller:
	Driller Oth Catry:			Apprye by Variance:
				TCEO Approve Plans:
ā	Driller City: Stephenium		Domestic	Proposed Use:
ille	!		2020-03-20	Drilling End UE
TOZ	Driller Address1: FO box 402		2020-05-20	Drilling Start Dt:
Dowell			No	Plugged w/i 48Hrs:
:	×			Seal Mithd Oth Desc:
	Owner Zip: 76401		Pumped	Seal Method:
	Owner State:		New Aveil	Type of Wrk Oth Descr
	!?		2020-05-22	Date Submitted:
522			_	No of Wells Drill:
In	Owner Name: Nick Braun			Apprentice Reg No:
	Owner Well No: /8401		543961	Well Rpt Track No:
ille	•1			Plug Rpt Track No:
Č	Well Addr2:		20000	PWS No: License No:
176			50000	
SDRW WELLS	TBD CR 176 Stephenville TX 75401	0.32 / 1,679.10	M	27 1 of 1
		63524	32 269054120163524	Latitude:
		04413	-98 19537496804413	Longitude
			115	Death Drilled:
			40 OCMESTIC	Water Usage:
			DOMESTIC	County:
			JIM BACHUS	Owners Name:
			08/14/1997	Date Drilled:
			31-47-B	Grid No:
WELL LOGS	7.			
TCEQ		0.29/	W	26 1 of 1
		9351	32.26288443489351	Latitude:
		00000	00 40475044	
C	Site	Distance (mi/ft)	of Direction	Map Key Number of Records
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Well Rpt Track No:
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Apprentice Reg No:
No of Wells Drill:

220557 55033

Off of 281 N
Stephenville TX 76401
Well Address1:
Well Address1
Well City:
Well City:
Well City:
Well Zip:
Owner Well No:
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Owner Addr1:

Slephenville 76401 Chris Baughn 1015 PR 897

Off of 281 N

SDRW WELLS

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2 of 3

MMM

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31.47-3 0927/2009 SOLID ROCK CHURCH ERATH DOMESTIC 410 500 500 500 500 500 500 500 500 500 5	Records		(mi/ft)			
SOLID ROCK CHURCH ERATH COMESTIC 410 500 500 500 500 -98,1957 32,271289  32,271289  WWW 1,897.88 Off of 281 N Stephenville TX76401 Owner Marine City: 76401 Owner Addr2: 5150 Chris Baughn Owner Addr2: 5150 Chris Addr	Grid No:	3147-8				
### CACH DOMESTIC #### DOMESTIC ####################################	Owners Name:	SOLID ROCK	CHURCH			
### 1,957.88  #### 1,957.88  #### 1,957.88  ##################################	County:	ERATH				
### 1.957 88 Off of 281 N    1.957.88	Static Level:	410				
### 1957  32.274289  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  ### 2.357  #	Depth Drilled:	500				
### 1,897.88 Off of 281 N    Stephenville TX 75401   Stephenville TX 75401   Well Address1: Oll of 281 N	Longitude:	-98,1957				
### 1,897.88 Off of 281 N    Stephenville   T776401   Welf Address1: Oli of 281 N   Welf Address1: Stephenville   T76401   Welf Zip: T76401   Owner Addrd:	Latitude:	32,274289				
### ### ##############################		MMM	0.36 / 1,897.88	Off of 281 N Stephenville TX 75401		SDRW WELLS
27861	License No:	55033		Well Address1:	Off of 281 N	
20554  20654  20610-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-24  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  2010-06-22  201	Plua Rat Track No:	127661		Wall City:	Stanhanvilla	
Owner Well No: Owner Well No: Owner Well No: Owner Medic: Owner Addr: Owner City: Owner Ci	Well Rpt Track No:	220554		Well Zip:	76401	
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010-06-24 Owner Address  Replacement Owner City: Owner Country: Responding to the City Owner Country: Responding to the City:	Apprentice Reg No:			Owner Name:	Chris Baughn	
laplacement Owner City: Owner State: Out Applicable Owner State: Owner City: O	Date Submitted:	2010-06-24		Owner Addr2:		
ol Applicable Owner Zig:  Per Supplicable Owner Country:  Per Supplier Address! Offiler Address. Offiler Add	Type of Work:	Replacement		Owner City:	Stephenville	
Ses Division Country:  109-12-31 Division Address:  109-12-31 Division Address:  109-12-31 Division Address:  109-12-31 Division Address:  100-12-31 Division Address:  100 Division Ad	Seal Method:	Not Applicable		Owner Zin:	76401	
Driller Marme:  009-12-31  Driller Address!:  009-12-31  Driller Address!:  Driller Address!:  Driller Address!:  Driller State:  Driller State:  Driller State:  Driller Caurary:  Driller Caur	Seal Mihd Oth Desc:			Owner Country:		
Doller Address*:  009-1231  Driller Address*:  009-1231  Driller City:  Driller C	Plugged w/i 48Hrs:	Yes		Driller Name:	Josh Aardal	
omestic Diller Clay:  Driller Clay:  Driller State:  Driller State:  Driller State:  Driller State:  Driller State:  Driller County:  Driller County:  Diller County:  Dist to Sepic Tt:  Dist to Sepic Tt:  Dist to Sepic Tt:  Dist to Repb Line:  Dist Venf Method:  Horizon Datum Typo:  Elevation:  Lat Naruta:  Lat Naruta:  Lat Naruta:  Lat Naruta:  Lat Minuta:  Lang Minuta:  Long Sepond:  Long Sepond:  Long Sepond:  Associated Services - Josh Aardal	Drilling Start Dt:	2009-12-31		Driller Address1:	PO Box 16	
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oriller Zip:  Driller Cib Cntry: Driller Cib Cntry: Driller Cib Cntry: Dist to Sepic Tibe: Dist to Sepic Tibe: Dist to Sepic Tibe: Dist to Sepic Tibe: Dist to Prop Line: Dist Verifi Method: Honzon Datum Type: Elevation: Lat Minute: Long Second: Long Second: O DASSOCIATED Long Second: Associated Services - Josh Aardal	Prop Use Oth Descr.			Driller State:	Z	
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0 0 Long Second: 0 Long Second: 0 Associated Services - Josh Aardal NK		Erain		Long Minute:	11	
	oc error:	No 31,47,4		Long Second:	46	
	Company Manager	Magazina agra	day fact fraudal			
	Company Name:	•	rices - Josh Aardal			
Data Source:	Company Name: Well Location Description		rices - Josh Aardal			

Data Source:	Comments:	Well Location Description:	Company Name:	Grid No:	Known Loc Error:	County:	Injurious Water:	Chemical Analysis:	Pump Depth:	Pump Type Oth Desc:	Pump Type:	Complt by Oriller:	Surf Comp Oth Desc:	Surface Compl:	Apprentice Signed:	Driller Signed:	Sealed by Name:	Sealed by Driller:	Loc Viy by Driller:	Apprve by Variance:	TCEQ Approve Plans:	Prop Use Oth Descr:	Proposed Use:	Drilling End Dt:	Drilling Start Dt:	Plugged w/i 48Hrs:	Seal Mthd Oth Desc:	Seal Wethod:	Typ of Wrk Oth Descr.	Type of Work:	Date Submitted:	Map Key Number of
Full SDR Databas	NK	2.	Associated Services - Josh Aardal	31-47-8	No	Eralh	No	No			Submersible			Surface Sleeve installed		Josh Aardal		Yes	No				Domestic	2009-12-31	2009-12-31	No		Pumped		Replacement	2010-06-24	of Direction
Full SDR Database; SDRDB Well Location (Map)			as - Josh Aardal		Lar	Lor	Lor	Lor	Lat	Lat	Lat	Lat	Ele	Ho	Dis	Dis	Dis	Dis	Dri	Dri	Dri	Dri	Dri	Dri	Dri	Dri	Ow	O <sub>N</sub>	O <sub>N</sub>	9	On	Distance Site
Map)					Lang Second: 46	Long Minute: 11	Long Degree: 98	Longitude: -91	Lat Second: 24		Lat Degree: 32		Elevation:	Horizon Datum Type:		Dist to Prop Line: 100	Dist to Septic Tk:	Dist to Sep Contam: 100	Driller Country:	Driller Oth Cntry:	Driller Zip: 76	Driller State:	Driller City: SI	Driller Addr2:	Driller Address1: P(	Driller Name: Jc	Owner Country:	Owner Zip: 78	Owner State: To		Owner Addr2:	
							3	-98.196111	~			32.273333			Customer Verified	10		30			76401	×	Slephenville		PO Box 16	Josh Aardai		76401	ヌ	Stephenville		

	-98 196111	Langitude:		No	Chemical Analysis:
	24	Lat Second:		420.00	Pump Depth:
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		Dist to Septic Tk:			Sealed by Name:
	80	Dist to Sep Contam:		Yes	Sealed by Driller:
		Driller Country:		No	Loc Viy by Driller:
		Driller Oth Cntry:			Apprve by Variance:
	76401	Driller Zip:			TCEQ Approve Plans:
	×	Driller State:			Prop Use Oth Descr.
	Stephenville	Driller City:		Domeslic	Proposed Use:
		Driller Addr2:		2006-11-14	Drilling End Dt:
	P. O. Box 16	Driller Address1:		2006-11-14	Drilling Start Dt:
	Gary Ardal	Driller Name:		8	Plugged w/i 48Hrs:
		Owner Country:			Seal Mthd Oth Desc:
		Owner Zip:		Pumped	Seal Method:
	ヌ	Owner State:			Typ of Wrk Oth Descr:
	Stephenville	Owner City:		New Well	Type of Work:
		Owner Addr2:		2011-06-02	Date Submitted:
	1015 PR 897	Owner Addr1:			No of Wells Drill:
	Chris Baughn	Owner Name:			Apprentice Reg No:
		Owner Well No:			Orig Well Rpt Trk No:
		Well Zip:		255332	Well Rpt Track No:
	Stephenville	Well City:			Plug Rpt Track No:
		Well Addr2:			PWS No:
	5205 N. US Highway 281	Well Address1:		2404	License No:
OCKAN AND EFFO		5205 N. US Highway 281 Stephenville TX	1,897.88		
			0.36/	MNM	29 3 of 3

DB

Comments: Data Source:	Well Location Description:	Company Name:	oc Error:		Chemical Analysis:		Pump Type Oth Desc:	riller:		ed:		Sealed by Driller.	•1	Approve by Variance:			Drilling Start Dt:		Seal Method: Seal Mthd Oth Desc:	th Descr.	Type of Work:		Apprentice Reg No:	Well Rpt Track No:			31 1 of 2	Latitude:	Depth Drilled:	Static Level:	Water Usage:	Owners Name:	Grid No: Date Drilled:		30 1 of 1	Comments: Data Source:	Well Location Description:	Grid No:	injurious Water: County:	Records
		31-47-8  Downt Well Service	8 8	ma h	8		Submersible		Sulface Sieeve Histolieu		Mark Dowell	Yes	No	na		Domestic	2006-12-20	No	Tremie		Replacement			100693	0	000	WN	32,263165	-98 180428	265	DOMESTIC	KELLY CASSTEVENS	31-47-8 12/18/2000		SE		n: Associated Services	31-47-8	No Erath	
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### 2,034.06    31.47.45				1012	Comments:
### 2,034,06  31.47-8 GM13H95 HARVEY WILLIAMS ####################################					Well I ocation Description
### 2,034,06  3147-8  Q419195  HARVEY WILLIAMS  ERAIT  DOMESTIC  215  350  -98,18666123316082  32,27586221081145  ##################################					
### 2,034,06  31.47-8  04.13 H95  HARVEY WILLIAMS  ###################################		43.8	Long Second:	8	
3147-8 3147-8 Q419195 HARVEY WILLIAMIS ERATH DOMESTIC 215 350 -98, 19905123316082 32,27558221081145  ERATH DOMESTIC 215 215 215 220 -98, 19905123316082 32,27558221081145  ERATH DOMESTIC 215 216 217 217 217 217 217 217 217 217 217 217		10	Long Minute:	Erath	
### 2,034,06  31.47-8  04.13 H395  HARVEY WILLIAMS  ###################################		98	Long Degree:	No	
3147-8 3147-8 4419195 HARVEY WILLIAMIS ERATH DOMESTIC 215 250 -98,19505123316082 22,27558221081145  ERATH DOMESTIC 215 215 216 217 217 217 218 22,27558221081145  ERATH ROMESTIC 218 22,1758221081145  ERATH ERATH ROMESTIC 218 22,1758221081145  ERATH ROMESTIC 218 22,175821081145  ERATH ROMESTIC 218 22,175821114  ERATH ROMESTIC 218 22,17582114  ERATH ROMESTIC 218 22,17582114  ERATH		-98,178833	Longitude:	No	
3147-8 3147-8 9419195 HARVEY WILLIAMS ERAH DOMESTIC 215 350 -98,19966123316082 32,27556221081145  ERAM DOMESTIC 215 Stephenville TX 76401  Stephenville TX 76401  Stephenville TX 76401  Owner Addr2: Well Addr2: Stephenville Owner Addr2: Owner Addr2: Owner Addr2: Owner State: TX  Pumped  Owner State: TX  Pumped  Owner State: TX  Pumped  Owner Addr2: Domller Addr2: Stephenville Domller Addr2: Domller Addr2: Stephenville Domller Addr2: Stephenville Domller Addr2: Stephenville Dowller Addr2: Stephenville Downer State: TX  TX  TX  Type: TX  Uselin Dowell Downer State: TX  TX  Downer State: TX  TX  TX  Dow		59.9	Lat Second:		Pump Depth:
3147-8 3147-8 041991995 HARVERY WILLIAMS EACH DOMESTIC 215 215 215 215 215 215 215 215 215 215		15	Lat Minute:		Pump Type Oth Desc:
3147-8 3147-8 041991995 HARVEYWILLIAMS ERACH DOMESTIC 215 25 25 24 34980122316082 32,27558221081145  Stephenville TX 76401 Stephenville TX 76401 Stephenville TX 76401 Stephenville TX 76401 More Addr2: Well Addr2: Well Addr2: Well Addr2: Well Addr2: Well Ctb: Now Well Owner Addr2: Well Ctb: Owner Addr2: Vell Ctb: Owner Addr2: Stephenville Domestic Cr Domestic		32	Lat Degree:	Submersible	
31.47.8 31.47.8 31.47.8 31.47.8 341.9195 HARRYEY WILLIAMS ERATH DOMESTIC 255 255 256 350 382,7558221081145  Stephenville TX 76401 Stephenville TX 76401 Stephenville TX 76401 Well Address1: T8D CR 176 Well Address1: T6401 Owner Well Owner Address1: T6401 Well Ad		32.266639	Latitude:	Yes	
31.47-8 31.47-9 31.47-9 31.47-9 34.191955 HARVEY WILLIAMS ERATH DOMESTIC 215 350 -98,19606123316082 32.275582210811.45  Stephenville TX 76401  Well Address1: T8D CR 176 Well Address1: Well City: Well City: Well City: Well City: T6401  Owner Name: Well Mo: Owner Addr1: Owner Addr2: Well City: Owner Addr2: TX Owner Addr2: Stephenville Descri Pumped  D			Elevation:		Desc:
31-47-8 31-47-8 31-47-8 31-47-8 31-47-8 34-19-95 4ARVEY WILLIAMS ERATH COMESTIC 250 350 350 350 350 350 350 350 350 350 3			Horizon Datum Type:	Surface Sleeve Installed	
2,034.06  31-47-8 04191995 HARVEY WILLIAMS EFATH DOMESTIC 215 350 -98,19606125316092 32,27556221081145  58066  Well Address1: TRANC: Well Address1: Well City: Well City: T6401  Well Address1: Well City: Well Address1: Well Address1: Well Address1: Well Address1: Well Address1: Well Address1: TX Domestic Desc: Domestic Differ Address1: Domestic Differ Address1: Domestic Differ State: TX Differ Country: Differ State: TX Differ State: TX Differ Country: Differ State: TX Differ Country: Differ Tx: State TX Differ		wheel	Dist Verifi Method:		
2,034,06 TX  31.47-8 04/13/195 HARVEY WILLIAMS ERATH DOMESTIC 215 350 -98,19906125316092 32,27558221081145  81 E 0,407 DOMESTIC 215 350 -98,19906125316092 32,27558221081145  Stephenville TX 76401 Well Address1: T8D CR 176 Well Address1: T8D CR 176 Well Address2: Stephenville Well City: Well City: Stephenville Well Address2: T6401 Owner Mell Owner Address No: 100,045-22 Owner Address No: 0wner Address No:		52	Dist to Prop Line:	Justin Dowell	
3147-8 3147-8 0419195 HARVEY WILLIAMS ERATH DOMESTIC 215 250 -98 11906123316082 227558221081145  58086  Well Address1: T8D CR 176 Well Address1: T8D		55+	Dist to Septic Tk:		
1.1.47-8 2.034.06 2.1147-8 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911991 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911995 2.041911991991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991 2.041911991		105+	Dist to Sep Contam:	Yes	
31-47-8 31-47-8 04/19/1995 HARVEY WILLIAMS ERATH ERATH DOMESTIC 215 215 235 348 19505125316082 32,27550221081145  ERATH			Driller Country:	Yes	
31-47-8 31-47-8 31-47-8 31-47-8 31-47-9 35			Driller Oth Cate		Approve by Variance:
31-47-8		>	Orillar Zin:		TCEO Approve Plans:
31.47-8 31.47-8 04119195 HARVEY WILLIAMS HARVEY WILLIAMS FRATH DOMESTIC 215 350 -98,1950512315092 32,27558221081145  Stephenville TX 78401 Stephenville TX 78401 Stephenville TX 78401  Well Address1: Well Address4: Well City: Well C		Stephenville	Driller City:	Domestic	
### 2,034,06  31,47-8  941,9195  HARPEY WILLIAMS  HARPEY WILLIAMS  FRATH  DOMESTIC  2,116.70  FBD CR 176  Stephenville TX 76401  Stephenville TX 76401  Stephenville Well Address1:  No:  Well Address1:  Well City:  Well		0	Driller Addrz:	Domostic	
31-47-8 31-47-8 9419/1995 HARVEY WILLIAMIS ERATH ERATH DOMESTIC 215 215 230 380906125316082 32,71550271081145  Stephenville TX 76401  Well Address1: Well Address2: Well Address3: Well Ad		PO 86X 402	Driller Address1:	2020-05-15	•
2034.06  31-3-8  0419/1995  HARVEY WILLIAMS ERATH ERATH DOMESTIC 215  230  3-98, 1980175316092  32,27558221081145  ERATH DOMESTIC 215  250  350  350  32,77558221081145  ERATH DOMESTIC 215  250  350  32,27558221081145  ERATH DOMESTIC 215  250  32,27558221081145  ERATH DOMESTIC 215  250  Stephenville TX 75401  Stephenville TX 75401  Owner Mana: Domest State: TA 200-05-22  New Well Domest State: TX Owner STATE TX OWNER STA		Justin vy Dowell	Driller Name:	2020 08 45	Ÿ
31-47-8 31-47-8 04/19/1995 HARVEY WILLIAMS EAXTH EAXTH DOMESTIC 215 250 38,19506125316082 32,27556221081145  8			Owner Country:	70	
2,034.06  31.47-8 04/19/1995 HARVEY VIILLIAMIS ERATH DOMESTIC 2/15 2/15 2/15 2/15 2/15 2/15 2/15 2/15		76401	Owner Zip:	Pumped	
31-47-8 31-47-8 04191995 HARVERY WILLIAMS ERATH DOMESTIC 215 215 225 322759221081145  58066  Ff E 0.40/ 2,116.70 TBD CR 176 Well Address1: Well Address1: Well Address1: Well Address4: Well City: Owner Address Owner Mell No: Owner Address New Well Owner Address New Well Owner Address Stephenville Owner Address New Well Owner Address Stephenville Stephenvi		₹	Owner State:		th Descr.
3147-8 3147-8 04193195 HARVEYWILLIAMS ERATH DOMESTIC 215 215 215 215 215 215 215 215 215 215		Stephenville	Owner City:	New Well	
3147-8 3147-8 3147-8 04191995 HARVEY WILLIAMS ERACH DOMESTIC 215 350 -98,19506125316082 32,27558221081145  Staphenville TX 76401 Well Addr2: Well Addr2: Well City: W			Owner Addr2:	2020-05-22	
31-47-8 31-47-8 04/19/1985 HARVEY WILLIAMS ERATH DOMESTIC 215 350 -99.19506125316082 32.27559221081145  E		5411 CR 522	Owner Addr1:	-	No of Wells Drill:
### 14 No:    14 No:		Nick Braun	Owner Name:		Apprentice Reg No:
### 2,034,06  ### Ato:    31,47-6			Owner Well No:		
### 2,034,06 PX  ### 14 No:    14 No:   14 No:   14 No:   14 No:   14 No:   15 No:   14 No:   14 No:   14 No:   14 No:   14 No:   15 No:   14 No:   14 No:   14 No:   14 No:   14 No:   15 No:   16 No:   16 No:   17 No:   17 No:   18 No:		76401	Well Zip:	543960	
### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ### 2,034.06  ##		Stephenville	Well City:		Plug Rpt Track No:
### 2,034,06 PX  ### 14 No: ### 1			Well Addr2:		
1 of 1		TBD CR 176	Well Address1	56066	
### 2,034,06  ### 14 No:    14 No:	2000		TBD CR 176 Stephenville TX 76401	2,116.70	
2,034.06  31-47-8 04/19/1998 HARVEY WILLIAMS EZATH DOMESTIC 215 29 98 19606125316082 32,27558221081145	SO BIN WE				
2,034.06  31-47-8 04/19/1995 HARVEY WILLIAMS EZATH DOMESTIC 215 250 98 19606125316082 32,27550221081145					
2,034.06  31-47-8 04/19/1995 HARVEY WILLIAMS EXATH DOMESTIC 215 200 200 200 200 200 200 200 200 200 20				32,27556221081145	Latitude:
2,034.06 TX  3147-8 D4191985 HARVEY WILLIAMS EAATH DOMESTIC 215				350	Depth Drilled:
2,034.06 7X  If No: 1 31-47-8  te Drilled: 041941995  mers Name: HARVEY WILLIAMS  ter Casge: DOMESTIC				215	Static Level:
2,034.06 TX  If Moc: 31-47-8 te Drifted: 04/19/1995 HARVEY WILLIAMS unby: ERATH				DOMESTIC	Water Usage:
2,034,06 TX  Id No: 3147-8  04/19/1955  D4/19/1955  D4/19/1955  D4/19/1955				ERATH	County:
2,034,06 TX 1d No: 31-47-8				HARVEY WILLIAMS	Owners Name:
2,03406 PX				31-47-8	Grid No:
2,034.06	WELL LOGS		×		
	TCEQ				

Grid No: Date Drilled:

33

1 of 1

MN

0.41 / 2,188.54

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TCEQ WELL LOGS

31-47-8 09/15/1986

80

Map Key Number of Records

Direction

Distance (mi/ft)

Site

Map Key Number of Records		Site	
Owners Name: County: Water Usage: Static Level: Depth Drilled: Longitude: Latitude:	MR TERRY ANTOINE ERATH DOMESTIC 275 405 -98,19933 32,274484		
34 1 of 1	E 0,42/ 2,202.35	TBD CR 176 Stephenville TX 76401	
License No: PWS No:	56066	Well Address1: Well Address	TBD CR 176
Plug Rpt Track No: Well Rpt Track No:	560730	Well City: Well Zip:	Stephenville 76401
Apprentice Reg No:		Owner Well No: Owner Name:	Nick Braun
No of Wells Drill:	1	Owner Addr1:	TBD CR 176
Type of Work:	2020-12-04 New Well	Owner Addr2: Owner City:	Stephenville
Typ of Wrk Oth Descr.	Disposal	Owner State:	TX
Seal Mithd Oth Desc:	TOTTOR	Owner Country:	/6401
Plugged wii 48Hrs:	No 2020-11-16	Driller Name:	Justin W Dowell
Drilling End Dt:	2020-11-16	Driller Addr2:	TO 00% 402
Propased Use: Prop Use Oth Descr:	Domestic	Driller City:	Slaphenville TX
TCEQ Approve Plans:		Driller Zip:	
Loc Vfy by Driller:	Yes	Driller Oth Cntry:	
Sealed by Driller:	Yes	Dist to Sep Contam:	110+
Driller Signed:	Justin Dowell	Dist to Prop Line:	60+
Apprentice Signed: Surface Compl:	Surface Steeve installed	Dist Verifi Method: Horizon Datum Type:	owner
Surf Comp Oth Desc:	V.,,	Elevation:	200000000000000000000000000000000000000
Pump Type:	Submersible	Lat Degree:	32.26/425
Pump Type Oth Desc:		Lat Minute:	16
Chemical Analysis:	No	Longitude:	-98.178392
Injurious Water.	No.	Long Degree:	98
Known Loc Error	No 5	Long Minute:	42.21
Grid No:	47-8	Tong Control	- Tables
Well Location Description:	ion:  Dawell Well Service		
Comments: Data Source:	Full SDR Database; SDRDB Well Location (Map)	/ell Location (Map)	
35 1 of 1	SSE 0.42/ 2,243.35	SCHREIBER FOODS	
PWS ID:	0720026	Segment	
PWS ID: WTRSRC: ID No:	0720026 G0720026B G0720026B	Segment: System Sta: Contact Phone:	ACTIVE 254-552-7736
Operating Status:	OPERATIONAL	Primary Co: Contact Ti:	OPERATOR
Well Depth: Water Usag:	462 ACTIVE - PERMANENT	Utility Name: Utility Na:	SCHREIBER FOODS INC SCHREIBER FOODS
Static Lev: Date Drilled:	09/10/2010	Aquifer: Waterbody:	218TRNT
Compliant	Yes	Latitude:	32.25827778

Driller Signed: Apprentice Signed: Surface Comply Surface Comply Surface Tollier: Complit by Driller: Complit by Driller: Pump Type Or Depth Pump Depth: Chemical Analysis: Churdy: Churdy: County: Co	Licanse No: PWS No: Well Rpt Track No: Well Rpt Track No: Orig Well Rpt Trik No: Apprentise Reg No: No of Wells Dpt Trik No: Apprentise Reg No: No of Wells Dpt Trik No: No of Wells Dpt Trik No: Seal Mind Oth Descr: Type of Work Type of Work Seal Mind Oth Descr: Seal Mind Oth Descr: Seal Mind Oth Sear: Prop Use Oth Descr: ToEQ Approve Plans: Appre by Variance: Loe Vify by Drillor: Sealed by Drillor: Sealed by Drillor: Sealed by Drillor	36 f Grid No: Date Drilled: Dwners Name: County: Water Usael: Static Levael: Legith Drilled: Lengitude: Latitude:	Map Key Num Reco Screen Bottom: Screen Top: Gallons Per Minute: Depth Agen: EPID: Type : CAD No: Constr. Confine: CCN: CONST. CO
ame: cd: d: d: ppl: ppl: ppl: phl Desc: riller: clifer: allysis: ter fror	nck No. tek No. tek No. brill: brill: ted: ted: ted: ted: ted: ted: ted: ted	1 of 1	Number of Records Records 337 Minute: 95
Justin Moore Surface Stee Yes Submersible 400.00 No No No No No No No No	59346 478048 1 2017-05-15 New Well Pumped No No No No No No No No No No No No No		397 397 317 60 DRILL 000
Justin Moore Surface Steeve Installed Yes 400.00 No No No Fiel Fiel Fiel Fiel Fiel Fiel Fiel Fiel	w w G	ENE 2. 31.47-8 0.05(2)(1991 F.E.SULTION ERAITH DOMESTIC 320 -98 1781393397155 32.2723778878568	Direction
		0,44/ 2,313,42 2,313,42 1155 568 60,45/ 2,356,80	Distance (milft)
Dist to Sephe In: Dist to Prop Line: Dist Veriff Method: Horizon Datum Type: Elevation: Latitude: Lat Minute: Lat Minute: Long Minute: Long Second: Long Second:	Well Address1: Well Andress1: Well Andress1: Well Chry: Well Chry: Well Zip: Well Zip: Owner Mell No: Owner Mell No: Owner Addr1: Owner Addr2: Owner State: Driller Addr2: Driller Addr2: Driller Addr2: Driller State: Driller State: Driller State: Driller Country: Driller Country: Driller Owner State: Driller State:	TX CR 909 Stephenville TX 75401	Site  Longitude: Horalem: Hora Mech: Hora Per. Hora Date: Hora Date: Hora Date: Guadaum: Quadaum: Quadaum: Quadaum: Quadaum: Qwar Des:
50+ Owner WGS84 32,270278 32 11 13 -98 197833 18 19 52.2	CR 909 Stephenville 76401 Terry Antoine PO 80X 532 Decatur 776134 Justin Moore PO 80X 16 STEPHENVILLE TX 76401		-98.18144444 83 DOQ 15 STRUC_CEN 06.Jan-2011 TCEQ NAJ033 3298-142
		TOEQ WELL LOGS SDRW WELLS	D8

Order No: 22100504558

ensinfo.com ( Environmental Risk Information Services

34. <u>erisinfo.com</u>   Environmental Risk Information Services	40 1 of 1 W 0.47/ 2,480,26 952 CR 909
Order No: 22100504558	SDRW WEL

SDRW WELLS

Yes No

Licanse Not:
PWS Not:
PWG Ret Track Not:
Well Ret Track Not:
Orig Well Ret Track Not:
Orig Well Ret Track Not:
Orig Well Ret Tra Not:
Apprentice Reg Not:
No of Wells Corlic.
Type of Work:
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Type of Work of Descr.
Seal Michod:
Seal Michod:
Drilling Start Dit.
Drilling Start Dit.
Proposed Use:
Prop Use Oth Descr.
TOECA Approve Plans:
Appre by Variance:
Loc Viry by Drilling.

Well Addresst:
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Well City:
Well City:
Well City:
Owner Well No:
Owner Addre:
Owner Addre:
Owner State:
Owner St

Stephenville TX 76401 Billy Griffin 949 CR 408 Stephenville 76401 Off of CR 909

Josh Aardal

2013-08-19 New Well

336531 55033

No 2012-03-13 2012-03-13 Domestic Pumped

39 1 of 1	m	0.47 / 2,455.48	TBD CR 176 Stephenville TX 75401		SDRW WELLS
License No:	56066		Wall Address 1.	TRD CB 178	
PWS No:			Well Addr2:	0000	
Plug Rpt Track No:			Well City:	Stephenville	
Well Rpt Track No:	560729		Well Zip:	76401	
Orig Well Rpt Trk No.			Owner Wall No:		
Apprentice Reg No:			Owner Name:	Nick Braun	
No of Wells Drill:	_		Owner Addr	TBD CB 176	
Date Submitted:	2020-12-04		Owner Addr2	0	
Type of Work:	New Well		Owner City:	Slephenville	
Typ of Wrk Oth Descr.			Owner State	TX	
Seal Method:	Pumped		Owner Zin	75401	
Seal Mthd Oth Desc:			Owner Country		
Plugged w/i 48Hrs:	No		Driller Name:	Justin W Dowell	
Drilling Start Dt:	2020-11-12		Driller Address 1:	PO Box 402	
Drilling End Dt:	2020-11-12		Driller Addr2:		
Proposed Use:	Damestic		Driller City:	Stephenville	
Prop Use Oth Descr.			Driller State:	ヹ	
Approve Flans:			Driller Zip:		
oc Viv by Driller	< >>		onlier on cary:		
Sealed by Driller	Yes		Driller Country:		
Sealed by Name:			Dist to Septio Tk:	D. C. +	
Driller Signed:	Justin Dawell		Diel to Prop Line:	E0+	
Apprentice Signed:			Dist Varifi Method	Owner	
Surface Compl:	Surface Sleeve Installed		Horizon Datum Type:		
Surf Comp Oth Desc:			Elevation:		
Cample by Driller:	Yes		Latitude:	32.267778	
Pump Type:	Submersible		Lat Degree:	32	
Pump Type Oth Desc:			Lat Minute:	16	
Pump Depth:			Lat Second:	4	
15.	Z Z		Longitude:	-98,1775	
S YVACOT.	NO		Long Degree:	98	
			Long Minute:	10	
oc Error:	Erath		Long Second:	39	
	Erath No				
Omnany Name:	4				
Company Name: Well Location Description	Erath No No 31-47-8 Dowell Well Service	ice			
Company Name: Well Location Description: Comments:	nam 0 1.47-8	ice			

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1 of 1

MNM

0.47 / 2,497.60

Off of CR 909 Stephenville TX 76401

SDRW WELLS

Map Key Number of Records	Direction Distance Site (mift)	08
Company Name: Well Location Description:	Associated Well Services, Inc.	
Comments: Data Source:	Full SDR Database; SDRD8 Well Location (Map)	
38 fof1	W 0,487 2,451.74 TX	TCEQ WELL LOGS
Grid No:	31-47-8	
Date Drilled:	07/09/1998	
Owners Name: County:	WHISENAT, JOE/SANTO PROPA ERATH	
Water Usage:	DOMESTIC	
Static Level:	330	
Depth Drilled:	458	
Longitude:	-98_198538	
Latitude:	32.267904	

41 1061	Data Source:	Comments:	Well Location Description:	Сотрапу Nате:	Grid No:	Vuonu Foc Fluor	County:	injurious Water:	cnemical Analysis:	rump vepan:	Pump Type Oth Desc:	Pump Type:	Complt by Driller:	Surf Comp Oth Desc:	Surface Compl:	Apprentice Signed:	Driller Signed:	Sealed by Name:	Sealed by Driller	Loc Vity by Driller:	Approve by Variance:	TCEQ Approve Plans:	Prop Use Oth Descr.	Proposed Use:	Drilling End Dt	Drilling Start Dt:	Plugged w/i 48Hrs:	Seal Mthd Oth Desc:	Seal Method:	Typ of Wrk Oth Descr.	Type of Work:	Date Submitted:	No of Wells Drill:	Apprentice Reg No:	Orig Well Rpt Trk No:	Well Rpt Track No:	Plug Rpt Track No:	PWS No:	License No:
MINW	Full SDR Database;		n:	Dowell Well Service	31-47-8	No	EMIN	0	20			Submersible	Yes		Surface Sleeve Installed		Justin Dowell		Yes	Yes				Domestic	2021-03-12	2021-03-12	No		Pumped		New Well	2021-03-18				568793			56066
0.47 /	Full SDR Database; SDRD6 Well Location (Map)					Long Second:	Long Minute:	Lang Degree:	Longitude:	Lat Second:	Lat Minute:	Lat Degree:	Latitude:	Elevation:	Horizon Datum Type:	Dist Verifi Method:	Dist to Prop Line:	Dist to Septic Tk:	Dist to Sep Contam:	Driller Country:	Driller Oth Cntry:	Driller Zip:	Driller State:	Driller City:	Driller Addr2:	Driller Address1:	Driller Name:	Owner Country	Owner Zip:	Owner State:	Owner City:	Owner Addr2:	Owner Addr1:	Owner Name:	Owner Well No:	Well Zip:	Well City:	Well Addr2:	Well Address1:
						55	=======================================	88	-98 198611	On	16	32	32.268056			owner	55+	65+	110+				TX	Stephenville		PO Box 402	Justin W Dowell		76401	7	Stephenville		952 CR 909	Chades Fenner		76401	Stephenylle		952 CR 909

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Order No: 22100504558

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Number of Records

Direction

Distance (mi/ft)

Stephenville TX 75401

TCEQ WELL LOGS		א	0,50 / 2,656.02	¥	43 1 of 1
		Location (Map)	Full SDR Database; SDRDB Well Location (Map)	Full SDR Databa	Data Source:
		inc.	פרואואכיי איא יבט אירבר סטוברוואס, וואכ		Well Location Description:
		NIG INIC		3147-8	Grid No:
	36	Long Second:		No.	Known Loc Error.
	10	Long Minute:		E Tales	County:
	-98,176667	Longitude:		8	Chemical Analysis:
	Si	Lat Second:			Pump Depth:
	16 6	Lat Minute:			Pump Type Oth Desc:
	32,268056	Latitude:		Yes	Complt by Driller:
		Elevation:			Surf Comp Oth Desc:
		Horizon Datum Type:		Surface Sleeve Installed	Apprenuce signed:
	50 +	Dist to Prop Line:		JEFF BENNETT	Driller Signed:
		Dist to Septic Tk:		-	Sealed by Name:
		Dist to Sen Contam:		Yes	Seafed by Driller:
		Driller Oth Cntry:			Apprve by Variance:
	76476	Driller Zip:			TCEQ Approve Plans:
	7 25	Driller City:		Domestic	Proposed Use:
		Driller Addr2:		2020-10-23	Drilling End Dt.
	7300 W, HWY 377	Driller Address1:		2020-10-23	Drilling Start Dt:
	Jeffrey D Bennett	Driller Name:		No	Plugged w/i 48Hrs:
	76401	Owner Zip:		Pressure	Seal Method:
	Τx	Owner State:			Typ of Wrk Oth Descr.
	STEPHENVILLE	Owner City:		New Well	Type of Work:
	3055 CR 176	Owner Addr1:		1000	No of Wells Drill:
	RANDY TATSCH	Owner Name:			Apprentice Reg No:
	/6401	Owner Well No:		202001	Orig Well Rat Trk No:
	STEPHENVILLE	Well City:		n n n n n n n n n n n n n n n n n n n	Plug Rpt Track No:
		Well Addr2:		4	PWS No:
	3055 CR 176	Well Address1:		4805	License No:
SURW WELLS		3055 CR 176 STEPHENVILLE TX 76401	2,580.75		
2000			0.49/	m	42 1 of 1
		Location (Map)	Full SDR Database; SDRDB Well Location (Map)	Full SDR Databa	Data Source:
					Comments:
				9	Well I neation Description:
				31-47-8	Grid No:
	53 =	Long Second:		8 [	Known Loc Error
	98	Long Degree:		7 S	Injurious Water:
	-98.198056	Longitude:		No	Chemical Analysis:
	24	Lat Second:		440.00	Pump Depth:
	i 22	Lat Degree:		Submersible	Pump Type:
	32.273333	Latitude:			Complt by Driller:
		Horizon Datum Type:		Surface Steeve installed	Surface Compl:
	Customer verified	Dist Verifi Method:			Apprentice Signed:
	100+	Dist to Septic Tk:		foch Aprilai	Sealed by Name:
į			(mi/ft)		
DB		Site	Distance	rof Direction	Map Key Number of

dressf: dressf: dressf: dressf: sill ko: koldert. same: p. O. BOX 236 same: p. O. C. BOX 236 same: p. O. B	Records	2	Annul			
The: C. W. FÉNNER C. W. FÉNNER E. EATH DOMÉSTIC E. 2025  115 115 115 115 128 1283790223745039  1 of 1	Grid No:	31-47-8 05/24/1974				
### BEATH   NW   0.51/   2.599.88   TX	Owners Name:	O W FENNER				
### DOMESTIC ### C2 ###	County:	ERATH				
1 of 1	Water Usage:	DOMESTIC				
### 1 of 1	Static Level: Deoth Drilled:	115				
### 1 of 1	Latitude: Latitude:	-98.19911535545 32.268790228745	698 509			
### ### ##############################		MN	88	*		SDRW WELLS
ack No: Well Active Free House Country: Well City: Owner Marne: Owner Marne: Owner Marne: Owner Active: Owner Act	License No:	4805		Well Address1:		
### Address	Plug Rot Track No:			Well City:		
Reg No:  Orlie:  Owner Mell  Owner Mell No:  Owner Mell No:  Owner Add7:  Owner Add	Well Rpt Track No:	86020		Well Zip:		
Driller Address 1  Oth Descr. Other Connex Name: Owner Address 1  Oth Descr. Other Connex Con	Ong Well Rpt Trk No:			Owner Well No:		
tied: 2006-06-25 New Well Owner Addr2: Owner Addr2: Owner City: Owner City: Owner City: Owner State: Owner City: Owner State: Owner Country: No 2006-04-20 Driller Address!: Orliller Address!: Owner Country: Owner Cou	No of Wells Drill:			Owner Addrd	P.O. BOX 236	
Oth Descr.   New Well   Owner City: Owner State:   Owner City: Owner State:   Owner City: Owner City:   Owner Country: Owner City:   Owner Country:   Owne	Date Submitted:	2006-06-26		Owner Addr2:		
Other Conventional Owner State:  1: Downer Zolfer Owner State:  1: Dith Desc: CONVENTIONAL Owner Country:  1: Dith Desc: CONVENTIONAL Owner Country:  1: Dith Desc: CONVENTIONAL Owner Country:  1: Dith Desc: COMPANY Owner Country:  1: Dither Addresst:  1: Dither	Type of Work:	New Well		Owner City:	MORGAN MILL	
in besc: CONVENTONAL  Who best: CONVENTONAL  ABHYS: No Driller Address!  Dit: 2006-04-20  Driller Address!: Driller Address!  Sea: Domestic  Driller Contry:  Driller Control  Driller Contry:  Driller Contry:  D	Seal Method:	Other		Owner State:	76465	
4 ABHys: No Driller Address! 1 Dt: 2006-04-20 Driller Address! 2006-04-20 Driller Addr	Seal Mthd Oth Desc:	CONVENTIONAL		Owner Country:		
Det. 2003-4-20 Diffler Addr. 2005-4-20 Diffler Addr. 2005-4-20 Diffler Addr. 2005-4-20 Diffler Chy: Briller Addr. 2005-4-20 Diffler Chy: Diffler Chy	Plugged w/i 48Hrs:	No No		Driller Name:	Jeffrey D Bennett	
bese: Domestic Driller City:  you Plans: Driller State: Driller City:  Aniance: No Driller County:  Driller County: Driller County:  Driller County:  Driller County:  Driller County:  Driller County:  Driller County:  Dist to Spice Tr:  Lat Minute:  Lat Minu	Drilling End Dt:	2006-04-20		Driller Addr2:		
por Plans:  No Plans:  Ordinarce:  No Plans:  Ordinarce:  No Driller State:  Driller Oth Crary:  Driller Oth Crary:  Driller Oth Crary:  Driller Oth Crary:  Diller Oth Other Tr.  Dist to Septic Tr.  Dist to Septic Tr.  Dist to Method:  Horizon Datum Type:  Elevation:  Lattude:  Lat Minute:  Lat Minute:  Land Degree:  Lat Minute:  Long Marete:  Long Minute:  Long Minute:  Long Second:  Long Second:  Long Second:  Long Second:  Long Second:  Long Second:  Long Minute:	Proposed Use:	Domestic		Driller City:	TOLAR	
Aramaes.  Aramae	Prop Use Oth Descr.			Driller State:	TX	
infiler: No Driller Country:  Ad: JEFF BENNETT Dist to Sept Contam: Signed: JEFF BENNETT Dist to Sept Contam: Dist to Septic Tr.  Dist to Prop Line: Line Country Verified Tr.  Dist to Prop Line: Line Country Verified Tr.  Dist to Prop Line: Line Country Verified Tr.  Lattude: Lattude: Lat Minute:	Approve by Variance:			Driller Oth Cotov	704/0	
anne: COMPANY an	Loc Viy by Driller:	No		Driller Country:		
anae: COMPANY  Signed: JEFF BENNETT  Signed: Disk to Prop Line: Elevation: Elevation: Elevation: Elevation: Elevation: Elevation: Elevation: Lat Begree: Lat Minute: Lat Second: Lat Second: Lat Second: Lat Second: Long Degree: Long Minute: Long Minute: Long Second: Second: BENNETT WATER WELL DRILLING, INC	Sealed by Driller:	No		Dist to Sep Contam:		
Signed: Sieve Installed Pict Verifi Method: Horizon Datum Type: Herizon Datum Type: Elevation: Latitude: L	Sealed by Name: Oriller Signed:	JESE BENNETT		Dist to Septic Tk:	AN.	
pp): Surface Sleeve Installed Horizon Datum Type: Elevation: Latitude: Latitude: Lat Minute: Lat Second: Lat Second: Lat Second: Lat Second: Long Degree: Long Minute: Lon	Apprentice Signed:			Dist Verifi Method:	MEASURED	
In Descr.  Lattude: Lattude: Lat Minute: Lat Minute: Lat Minute: Lat Second: Lat Second: Long Bagree: Long Minute: Long Minute: Long Second:	Surface Compl:	Surface Sleeve Installed		Horizon Datum Type:		
Oth Desc:  Lat Degree: Lat Minute: Lat Second: Long Degree: Long Degree: Long Minute: Long Minute: Long Minute: Long Second: Long Second: Long Second: Long Second: Long Second:	Complete Driller:			f atitude:	32.277222	
Of Desc:  Lat Minute: Lat Second: Longitude: Longitude: Long Minute: Erath Long Minute: Long Minute: Long Minute: Long Second: J47-8 SENNETT WATER WELL DRILLING, INC	Pump Type:			Lat Degree:	32	
ralysis: No Longitude: Longitude: Longitude: Longitude: Longitude: Long Degree: Long Minute: Long Minute: Long Minute: Long Second: Lon	Pump Type Oth Desc:			Lat Minute:	16	
nalysis: Long Jugiere: Long Degree: Long Minute: Long Minute: Long Second: 31-47-8 BENNETT WATER WELL DRILLING, INC	Pump Depth:			Lat Second:	38	
Erath Long Minute: Error: No Long Second: 31-47-8 SENNETT WATER WELL DRILLING, INC un Description:	Iniminate Water	2		Longitude:	-98 1975 og	
Error: No Long Second: 31-47-8 sme: m Description:	County:	Erath		Long Minute:	11 (	
31-47-8 ame: nn Description:	Known Loc Error:	No.		Long Second:	51	
ame: on Description:	Grid No:			i		
	Company Name:		R WELL DRILLING, I	NC		
	wen Location Descript					

Grid No:
Date Drilled:
Owners Name:
County:
Water Usage:
Static Level:
Depth Drilled:
Longitude:

31-47-8M 09/05/1975 TOBY STONE ERATH DOMESTIC 280 320 -98.177103

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TCEQ WELL LOGS

Order No: 22100504558

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Order No: 22100504558

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erisinfo.com   Environmental Risk Information Services	
Order No: 22100504558	

48 1 of 1	Grid Mo: Date Drilled: Owners Name: Courty: Water Usage: Water Usage: Level: Depth Drilled: LongTiude: Latitude:	47 1 of 1	Well Location Description: Comments: Data Source:	Grid No: Company Name:	Known Loc Error	County:	Chemical Analysis:	Pump Depth:	Pump Type:	Complt by Driller:	Surf Comp Oth Desc:	Apprentice Signed:	Driller Signed:	Sealed by Name:	Loc Vfy by Driller:	Apprve by Variance:	TCEQ Approve Plans:	Proposed use:	Drilling End Dt	Drilling Start Dt:	Plugged w/i 48Hrs:	Seal Mthd Oth Desc:	typ of Wrk Om Descr.	Type of Work:	Date Submitted:	Apprentice Reg No:	Orig Well Rpt Trk No:	Plug Rpt Track No:	License No: PWS No:
NN	31-47-8 12/97/1978 JOE TORRES ERATH DOMESTIC 260 320 -98 197097 32.257287	MS		31-47-8 Associated Services	No	E S	No	380,00	Submersible		onlace Clocke Haranso	Curtana Classic Inclained	Gary Aardal	d	Yes O			Dolliesuc	2004-04-21 Domoslio	2004-04-21	No			New Well	2006-01-25		4000	74760	2404
0.54 / 2,831.60		0,52 / 2,767.58	Sdfs Full SDR Dalabase; SDRDB Well Localion (Map)	Sezi																									
ス		₹	cation (Map)		Long Second:	Long Minute:	Longitude:	Lat Second:	Lat Degree:	Latitude:	Elevation:	Dist Verifi Method:	Dist to Prop Line:	Dist to Septic Tk:	Driller Country:	Driller Oth Cntry:	Driller Zip:	Driller State:	Driller Addr2:	Driller Address1:	Driller Name:	Owner Country:	Owner state:	Owner City:	Owner Addr1:	Owner Name:	Owner Well No:	Well City:	Well Address1: Well Addr2:
					57	11	-98,199167	13 2	16	32,270278		Customer Verified	30	č	100		76401	TX	Clarkonillo	P. O. Box 16	Gary Ardal		78401	Stephenville	395 Morgan Will Road, #4	Gary Davis		Stephenville	Highway 281 towards Morgan Mill
TCEQ WELL LOGS		TCEQ WELL LOGS	K.																										111

SDRW WELLS		0.54/	m	1 of 2	50	
			32 25661		Latitude:	
			325	17	Depth Drilled:	
			260		Static Level:	
			DOMESTIC	•	Water Usage:	
			ERATH		County:	
		R	DAVID BARGER	e:	Owners Name:	
			03/26/1979		Date Drilled:	
			31-47-8		Grid No:	
WELL LOGS	ヌ	2,860.77				
TCEO		0.54/	MS	1 of 1	49	
		16246	32 27924568216246		Latitude:	
		21498	-98,1961206221498		Longitude:	
			413	7	Depth Drilled:	
			361		Static Level:	
			DOMESTIC	-	Water Usage:	
			ERATH		County:	
		HAM	WINDLE GRAHAM	18:	Owners Name:	
			11/03/1995		Date Drilled:	
			31-47-8		Grid No:	
	Site	(mi/ft)	Direction	Records	wap Ney	
	7		2	A	** Kan	

50 1 of 2	m	0.54 / 2,864.37	2488 CR 176 Stephenville TX 76401		SDRW WELLS
License No: PWS No:	56062		Well Address1: Well Addr2:	2488 CR 176	
Plug Rpt Track No:			Well City:	Stephenville	
Well Rpt Track No:	335178		Well Zip:	76401	
Orig Well Rpt Trk No:			Owner Well No:		
Apprentice Reg No:			Owner Name:	Elizabeth Tatsch	
No of Wells Drill:			Owner Addr1:	2488 CR 176	
Date Submitted:	2013-08-15		Owner Addr2:		
Type of Work:	Replacement		Owner City:	Stephenville	
Typ of Wrk Oth Descr:			Owner State:	TX	
Seal Method:	Pumped		Owner Zip:	76401	
Seal Mihd Oth Desc:			Owner Country:		
Plugged w/i 48Hrs:	Zo o		Driller Name:	Russell Langford	
Drilling Start Dt:	2012-05-23		Driller Address1:		
Driving End OC	2012-03-23		Driller Addrz:		
Proposed Use:	Domestic		Driller City:		
TCEO Approve Plans:			Driller Zip:		
Apprve by Variance:			Driller Oth Cntry:		
Loc Vfy by Driller:	No		Driller Country:		
Sealed by Driller:	Yes		Dist to Sep Contam:	56	
Sealed by Name:			Dist to Septic Tk:		
Driller Signed:	Russell Langford		Dist to Prop Line:	50	
Apprentice Signed:			Dist Verifi Method:	customer verified	
Surface Compl:	Surface Sleeve Installed		Horizon Datum Type:		
Surf Comp Oth Desc:			Elevation:		
Complt by Driller:			Latitude:	32,266667	
Pump Type:	Submersible		Lat Degree:	32	
Pump Type Oth Desc:			Lat Minute:	16	
Pump Depth:	420.00		Lat Second:	0	
Chemical Analysis:	No		Longitude:	-98,176111	
Injurious Water:	No		Long Degree:	98	
County:	Erath		Long Minute:	10	
Known Loc Erron	No		Long Second:	34	
Grid No:	31-47-8				
Company Name:					
Well Location Description:	30:				

Map Key

Number of Records

Distance (mi/ft)

Site

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32 265723 Direction

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1 of 1

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0.52/ 2,750.23

Highway 281 towards Morgan Mill Stephenville TX 76401

SDRW WELLS

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Order No: 22100504558

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Order No: 22100504558

License No: 1891	55 10f1 E	Grid No.         20-04/199           Date Drilled:         020-04/199           Owners Name:         J.O. BACHUS           County:         ERATH           Water Usage:         DOMESTIC           Static Level:         70           Depth Drillede:         141           Longitude:         -98, 198929305731           Latitude:         32,27724471894457	54 1 of 1 NW	Grid No.         31-47-BK           Date Drillad:         0621/1975           Owners Name:         KENNETH MILLER           County:         EARTH           Water Usage:         DOMESTIC ED           Static Level:         NOT REPORTED           Depth Drillede:         385           Longifude:         -98.1930420142022           Latitude:         32.27353440611308	53 foff NNW	Saurce:	Slong: 43 Coordinate Source: +/- 5 Seconds Owner: Texas A&M		ide DD:	Mlat: 15			Last Update Date:	Prev State Well No:	Other Well No:	GCD Well No:	TCEQ Source ID:	Plug Rep Track Na:	Well Rep Track No:	rump:	100	GCD: Middle Trinity GCD Well Type: Wilhdrawal of Water
	0.60 / 3,169.55	5731 14457	0.59 / 3,111,06	LER ED 42022 11389	0.57 / 3,022.13	)alabase (GWDB)																
Well Address1:	325 CR 477 Stephenville TX 76401		אז		ヌ	Groundwater Database (GWDB) Reports; GIS shapefile of GWDB well locations	County: River Basin:	Drilling Method: Bore Hole Compl:	Drilling End Date:	Drilling Day:	Drilling Month:	Land Surf Elev Mtd:	Land Surf Elevation:	Well Depth:	Aquiter Pick Mtd: Driller:	Classification:	Aquifer:	Aquifer Code Desc:	Well Use: Aquifer Code:	Cold Cata Start	Othor Oats August.	Curr Wir Qual Well: Reporting Agency:
325 CR 477						B well locations	Erath Brazos		1968-05-10	1968	5	Digital Elevation Model -DEM	1341	442		Major	Trinity	Trinity Group	218TRNT			No
	SDRW WELLS		TCEQ WELL LOGS		TCEQ WELL LOGS																	

Comments: Data Source:

^ch Full SDR Database; SDRDB Well Location (Map)

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TCEQ WELL LOGS Map Key Number of Records

Direction Distance (mi/ft)

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Order No: 22100504558

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TCEQ WELL LOGS

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TCEQ WELL LOGS

TCEQ WELL LOGS

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Number of Records

Direction

Distance (mi/ft)

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Number of Records

Direction

Distance (mi/ft)

Site

ensinfo.com   E	Grid No: Date Drillad: Owners Name: Courny: Water Usage: Static Leval: Depth Drilled: Longitude:	63 1 of 1	Grid No: Date Drillist: Dwnels Name: County, Water Ussige: Static Lavel: Depth Drillist: Longitude: Latitude:	62 1011	Grid No: Date Drilled: Owners Name: Courny: Water Usage: Static Level: Static Level: Longitude: Latitude:	61 1011	Grid No: Date Drilled: Owners Name: County: Water Usage: Static Level: Depth Drilled: Longitude: Latitude: Latitude:	50 1 of 1	Owners Name: County: County: Water Usage: Static Lavel: Depth Drilled: Longitude: Latitude:	Map Key Number of Records
ensinfo.com   Environmental Risk Information Services	10/25/200 10/25/200 LARRY REAVIS ERATH DOMESTIC 340 440 -98/200355/20702	NW 0.77/ 4,089.64 TX	3147/8 10/23/1989 10/23/1989 BERT WRIGHT EAATH DOMESTIC 301 429 -98.17526108264168 32.26063375100953	ESE 0.71/ 3,728.73	31-47-8 07/09/1986 F. GRIFFIN ERATH DOMESTIC 300 331 -88.20110164341867 32.25933039562065	SW 0.70/ 3,710.72 TX	31.47.8 1728/1985 GORDON TAYLOR ERATH IRRIGATION 330 -98.17379225472117 32.2671213024289	E 0.69/ 3,623.29 TX	TEXAS AGRICULTURE EXPIREMENT FARM ERATH NOT REPORTED 300 420 420 481 19366 32.251735	Direction Distance Site (mi/ft)
Order No: 22100504558		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS		TCEQ WELL LOGS		DB

Table   Tabl		145 ROSE LANE	Driller Audress 1.				Uniling Start L
Statistical			Della Address		0-06-03		1 100
### 1 of 1   N/W   0.817   32.2803417889 1604   ### 1 of 1   N/W   0.817   4.283.98   TX  ### 1 of 2   S/W   0.827.74   SOUTHWESS ### 1 of 3   SOUTHWESS ### 1 of 4   S/W   0.827.74   SOUTHWESS ### 1 of 5   S/W   0.827.74   SOUTHWESS ### 1 of 6   S/W   0.827.74   SOUTHWESS #### 1 of 7   S/W   0.827.74   SOUTHWESS ##### 1 of 7   S/W   0.827.74   SOUTHWESS ##### 1 of 7   S/W   0.827.74   SOUTHWESS ###### 1 of 7   S/W   0.827.74   SOUTHWESS ########## 1 of 7   SOUTHWESS ###################################		Thomas Gasmann	Driller Name:		900000	,	Plugged w/i 48
State   Stat		76401	Owner Zip:		er Transis		Seal Method:
### 10f1   NW   0.817   A.23365   TX   ### 10f2   SW   0.827   TARLETON STATE UNIVERSITY   ### 10f2   SW   0.		7	Owner State:				Typ of Wrk Ot
### 10f1   NW   0.81 / 2.2503478981804   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   1010   101		Stephenville	Owner City:		v Well		Type of Work:
### 1011 ### ### ### ### ##############			Owner Addr2:		0-09-24		Date Submitte
### PROPERTY   NIW   0.811   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1.000   1		5026 CR 518	Owner Addr1:			nili:	No of Wells Dr
### PROPRIES   DIRECTOR   Children   Striet   ### PROPRIES   STATE   S		TSII Dairy Center	Owner Marie:			20.	Angrentice Re
### Proof		1 000	Owner Mall Ma			;	Orie Wall Dat
### Proof   Milling   Milling   Milling   Milling   Milling   ### Proof   Milling   Milling   Milling   Milling   #### Proof   Milling   Milling   Milling   ####################################		38001	Well Zin:		RQS		Mall Bot Track
### 10f1 NW 0.31/4-8 ####################################			Well Addrz:				7000
### 1 of 1		5026 CR 518	Well Address1:		64	560	License No:
## 1 of 1			Stephenville 1.K / 0401				
## 1 of 1	ODAN		5026 CR 518	4,327.74			
### ### ### ##########################	200			0.82/		2 of 2	
Tof1							
Maintenance						z	Alluvial:
Tof 1		0000-110	Ownr Des:				CCN:
Tof   NIW   0.81		NAU83	Horz Datum:			n –	Consu
Tof 1		TCEQ	Horz Org:			4	CAD No:
## Records    1 of f		07-Jan-2014	Horz Date:				Type:
### Records    1 of 1		STRUC_CEN	Horz Ref:			001	EPID:
titude: 32,280,34778851604  1 of 1 NW 0.817 4.293,96  1 of 2 SW 0.827.74  1 of 2 SW 0.827.74  1 of 2 SW 0.827.74  1 of 31,47-8  1 of 2 SW 0.827.74  1 of 32,280,34778851604  1 of 2 SW 0.827.74  1 of 31,47-8  1 of 31,47-8  1 of 4 No:		15	Horz Acc:		E		Depth Agen:
## Records   Direction   Direction   Distance   Site		DOQ	Horz Meth				Gallons Per M
titude: 32,28034778851604  1 of 1		83	Hdatum:				Screen Top:
## Records   Direction   Direction   Distance   Site		-98 20094722	Longitude:	57			Screen Bottor
## Records   Direction   Direction   Distance   Site		20 26//1111	Waterbody		2//2010	VBV	Date United:
## PROOFES   DIRECTION   DIRECTION   DIRECTION		218TWMT	Aquifer:				Static Lev:
## Records   Direction   Direction   Distance   Site			Utility Na:		TIVE - PERMANENT	AC	Water Usag:
titude: 32.28034778851604  titude: 32.28034778851604  tof 1 NW 0.81/ 4.293.96  TX  1 of 1 NW 0.81/ 4.293.96  TX  1 of 2 SW 0.827  1 of 2 SW 0.827  1 of 2 SW 0.827  1 of 32.28143397183085  titude: 0720056A 0.700066  System Start: OBERATIONAL Contact Phone: 254-989-982  Section Start: OBERATIONAL CONTACT COLUMNS  Section Start: OBERATIONAL CONTACT COLUMNS  SECTIONAL COLUMNS  SECTIONA		TARLETON STATE UNIVERSITY SOUTHWES	Utility Name:		i i		Well Depth:
## Proof   Direction   Distance   Site		HECTOR C DAVIS	Control Ti		REATIONAL		St Abell to:
## Records   Direction   Distance   Sits		254-968-9842	Contact Phone:		720056A	GO	ID No:
## A PRODUCT   DIRECTION   DIR		ACTIVE	System Sta:		720056A	90	WTRSRC:
## Proof   Direction   Distance   Site			Segment:		20056	07:	PWS ID:
## A PRODUCT   DIRECTION   DIR			ヌ				
## Application   Direction   Distance   Site	anm	VERSITY	TARLETON STATE UNIN SOUTHWES	0.82/ 4,327.74	WS	1 of 2	
## Applied:   Direction   Distance   Site							
titude: 32.28034778851604  titude: 32.28034778851604  titude: 32.28034778851604  tof 1 NW 0.81 / 4.293.96  tof No.: 31.47-8				Jos	32,2814339/163		Fattude:
## Arecords   Direction   Distance   Sits				856	-98 20022925687		Longitude:
## A PROPERTY   DIRECTION   DISTANCE   SITE					419	• •	Depth Drilled:
## A Price   Direction   Distance   Site					372		Static Level:
## A PROPERTY OF THE COURT OF T					DOMESTIC		Water Usage.
three variables of brecoon brance one Records (milt) finde: 32,28034775851604  finde: 32,28034775851604  fof NW 0.817 4.293.96  TX  td No: 31,47-8 10,20771397 10,20771397				Ċ	ERATH	5	County:
tude: Records Direction Distance Sits  Records 32,28034776831504  tude: 32,28034776831504  1 of 1 NW 0.817 4.293.96  TX				Ō	TOM CRAWEOR	?	Oute Drives.
tude: Necords Direction Distance Sits Records (milt) titude: 32,28034778891604  1 of 1 NW 0.81/ 4,293.95 TX					31.47-8		Grid No:
threy number of brecoots usaanse one Records (mitty) titude: 32,2803,4778851604  1 of 1 NW 0.817 4,293,96 TX							
tude: 22.28034778831604  1 of 1 NW 0.81/	WELL LOGS		7	4,293.96			
Records	7050			0.81/	MN	1 of 1	64
Records Unscance (milft)  Records 32,28034776881604							
Records (milft)				004	32,28034778881		Lauthoe:
Records Oirection Oistance (mi/ft)							
			SIE	(mi/ft)	Cu ec pour	Records	map ivey

ensinfo.com | Environmental Risk Information Services

Palas: Yes	Proposed lies:		2	13300	Records	is (mi/ft)	d
Part	Prop Use Oth Descr.	Public Supply	Oriller City:	TX			
Marchane   Color   C	TCEQ Approve Plans:	Yes	Driller Zip:	75034			
Part	Apprve by Variance:		Driller Oth Cntry:				2
immer 100 Gedament Statist St	contact his Driller:	No	Driller Country:				
Special Support         Cold Gold Subject (Support)         Date in Support         Cold Subject (Support)         Date in Support	Sealed by Name:	Tom Gasmann	Dist to Sep contam:				
Spin	Driller Signed:	TOM GASMANN - 56064	Dist to Prog Line:		Grid No:	31-47-8	
Barbas Sabh Hallafed   Barbas Sabh Hallafed   Barbas Cabum Fyrat   County-	Apprentice Signed:		Dist Verifi Method:		Owners Name:	BILL TIDWELL	
One Death         Editorio Sidente Sidente         Editorio Sidente         Capacity         Comment of Sidente         Capacity         Comment of Sidente         Capacity         Ca	Surface Compt:	Surface Stab Installed	Horizon Datum Type:		County:	ERATH	
Part	Surf Comp Oth Desc:		Elevation:		Water Usage:	DOMESTIC	
Comparison   Com	compit by briller:		Latitude:	32,254445	Static Level:	220	
December   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   1910   191	Pump Type:	Submersible	Lat Degree:	32	Depth Drilled:	280	
March   Marc	Pump Type Oth Desc:		Lat Minute:	15	Longitude:	-98 17112623895996	
Mary   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	Pump Depth:	381.00	Lat Second:	16	Latitude:	32.273326313622256	
Enterior   10	Chemical Analysis:	Yes	Longitude:	-98,200834		34	
Enter	Injurious Water:	20	Long Degree:	98			
Trick	County:	Eraur	Long Minute:	12			
Act	CHOWN LOC ERFOR.	No	Long Second:	ш			
Part	Gnd No:						79
### Part	Company Name:					400	
Part	Well Location Description						*
CE         Full SDR Databases: SDRDD Well Location (Map)         Date Differ.         CDR201 (Map)         Date Differ.         CDR201 (Map)         Date Differ.         CDR201 (Map)         Date Differ.         CDR201 (Map)         DATE DIFFER         CDR201 (Map)         DATE DIFFER         CDR201 (Map)         DATE DIFFER         CDR201 (Map)         ESCATION (Map)         CDR201 (Map)	Comments:		tef#8424		Grid No:	3147-8N	
fof I         E         0.84/L         2703 CR 48SS         SDRW WELLS         Commer Americ         EDAS AGROCUTIRAL ENVIRON           ck Not:         1851         4.421.41         2703 CR 48SS         2710 CR 44SS         Commer Americ         1850 CR 700 CR 44SS         2800 CR 700 CR	Data Source:	Full SDR Database	; SDRDB Well Location (Map)		Date Drilled:	05/22/1976	
### ### ### ##########################					Owners Name:	TEXAS AGRICULTURA	L EXP STA
ck Not:         1351         2703 CR 435         2703 CR 435         SDRW WELLS         SDRW WELLS         SUBMIT CANADA         400 NOTES           ck Not:         13567         Wall Address?t         2703 CR 435         Longitude:         400 NOTES         4			.84/		Water Heare:	EXP.	
Stapheninia TX 76461				SDRWI		IRRIGATION	
1891   Well Address: 2703 CR 455   Ladiude: 294 17759   Well Address:						300	
1851   Well Address:   2713 CR 455   Well Cry:   Well Address:   2713 CR 455   Well Address:   2714 CR 455			Stephenvine IX /6407		Depth United:	400	
CEX NO.         CEX NO.         Well Addr2.         Well Addr2.         Well Addr2.         Well Addr2.         CEX NO.	License No:	1891	Well Address1:	2703 CR 455	Longrade	33 350305	
ck Nat.         Kerk Inc.         Weld City.         Statished City.         Statished City.         AUX ASSST	PWS No:		Wall Addro-		Lacias Cd.	32,230300	
Kr /K Auc.         42557         Weil Zib.         76401         689         1 of 1         AUV GBD/ AT 22,57           Kr /K Auc.         21567-26         Owner Marker.         20mor Weil Arc.         20mor Weil Arc.         20mor Medica.         20mor Addres.         20mor Addres.         20mor Addres.         20mor Addres.         1 owner Addres.         20mor Addres.         1 owner Addres.         1	Plug Rpt Track No:		Well City:	Sleobenville			
Trk Atc.         Ommor Wolth Inc.         Ommor Wolth Inc.         Ommor Wolth Inc.         Ommor Wolth Inc.         Addr.         Ommor Addr.	Well Rpt Track No:	425567	Well Zin:	78401			
Seg No.:         Owner Mane:         John Secret         Control Owner Addr:         James Young         James Young         Grid No:         James Young         Addr:	Orig Well Rpt Trk No:		Owner Well No:				
Onl:         Z016-07-06         Owner Addr.1.         Z010 CR-855         Owner Addr.2.         Z016-07-06         Owner States.         TX           bb Descr.         Positive Displacement         Owner States.         TX         Owner States.         TX         Owner Addr.2.         C07081939.         Owner Addr.2.         C07081939.         Owner Addr.2.         Downer Addr.2.         C07081939.         Owner Addr.2.         C07081939.         Owner Addr.2.         C07081939.         Owner Addr.2.         Owner Addr.2. <td< td=""><td>Apprentice Reg No:</td><td></td><td>Owner Name:</td><td>James Young</td><td></td><td></td><td>57</td></td<>	Apprentice Reg No:		Owner Name:	James Young			57
Red:         2015-07-16         Owner Addr2:         Stephenville         Owner Clory:         TX         Add 1         Owner Addr2:         TX         Owner Addr2:         CD         Owner Addr2:	No of Wells Drill:		Owner Addr1:	2703 CR 455		30	
bit Description         Replacement         Owner Cyty. Owner State.         TX         Owner State. Date Orified:         0147-8 Owner State.         0147-8 Owner State.         0147-8 Owner State.         077081993         0147-8 Owner State.         077081993         077081993         077081993         077081993         077081993         077081993         077081993         077081993         077081993         077081993         077081993         077081993         077081993         077081993         077081993         077081993         077081993         07708199         07708199         07708199         07708199         07708199         07708199         0770817         0770819         0770819         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817         0770817	Date Submitted:	2016-07-06	Owner Addr2:				š
Positive Displacement	Type of Work:	Replacement	Owner City:	Stephenville	Grid No:	31-47-8	
bb Sec         Postilive Displacement         Owner Zipt. Owner County: Owner County: Differ Address: Differ City: Total Tight Differ County: Diff	Typ of Wrk Oth Descr.	!	Owner State:	₹	Date Drilled:	07/08/1993	
Discreption	Seal Method:	Positive Displacement	Owner Zip:	76401	Owners Name:	KEN ROUSE	
Submiss         No         Defiler Address:         Defiler Address:         Mark A Dowell         Mark A Dowell         Mark Dowell         Mark Dowell         Mark Dowell         Mark Dowell         Mark Dowell         Mark Dowell         Static Level:         300           6c         2016-07-06         Defiler Address:         Defiler City:         Sephenville         Dephen Defiled:         30           6c         Description:         Defiler Conday:         TX         Dephenville         Dephen Defiled:         30           filler:         Yes         Differ Conday:         TX         Dephenville         Dephenville         Dephenville           filler:         Yes         Differ Conday:         TX         TA         Dephenville         Dephenville           filler:         Yes         Dist to Sep Conday:         TX         TA         TA         Dephenville           filler:         Yes         Dist to Sep Conday:         Dist to Sep Conday:         Dist to Sep Conday:         Dephenville         Dephenville         A\$78.47           filler:         Yes         Dist to Readers:         Dist to Readers:         Dist to Readers:         Downer         Dephenville         A\$78.47           filler:         Yes         Dist to Readers:         Dist to Rea	seal wind on Desc.		Owner Country:		Caunty:	ERATH	
Obt.         2016-07-05         Dniller Address1:         P.O., Box 402         Static Level:         320           Obs.         2016-07-05         Dniller Address1:         P.O., Box 402         Static Level:         320           b Description         Domestic         Dniller Address1:         P.O., Box 402         Depth Dnilled:         320           b Description         Dniller Address1:         Dniller Address1:         320         Longitude:         320           b Description         Dniller Address1:         Dniller Address1:         100         Dniller Address2:         200           b Description         P.O., Box 10         Dniller Address1:         P.O., Box 10         Dniller Address2:         32           t Driller Address1:         Dniller Address2:         Dniller Address2:         20         Add 1           t Driller Address2:         Dniller Address2:         P.O., Box 10         Dniller Address2:         20           t Driller Address2:         Dniller Address2:         Dniller Address2:         Add 1         Add 1           t Driller Address2:         Dniller Othorby:         TA         Add 1         Add 1         Add 1           tiller         Yes         Daylor Address2:         Dniller Address2:         Dniller Address2:         Add 1 <th< td=""><td>Plugged wh 48Hrs.</td><td>No</td><td>Driller Name:</td><td>Mark A Dowell</td><td>Water Usage:</td><td>DOMESTIC</td><td></td></th<>	Plugged wh 48Hrs.	No	Driller Name:	Mark A Dowell	Water Usage:	DOMESTIC	
District	Drilling Start Dt:	2016-07-05	Driller Address1:	P.O. Box 402	Static Level:	320	
As:         Domestic         Doffler City:         Stephenville         Longitude:         4-98 20114028557827           Vo Palaus:         Longitude:         4-98 20114028557827         TX           Infler:         Ves Palaus:         TX         TX         Latitude:         4-98 20114028557827           Iller:         Ves Palaus:         Driller City:         TX         TX         TX         TX           Iller:         Ves Palaus:         Driller City:         Driller City:         TX         TX<	unling End Dt:	2016-07-06	Driller Addr2:		Depth Drilled:	390	
Polescription:   Pole	Proposed Use:	Domestic	Driller City:	Stephenville	Longitude:	-98 20114025557827	
niller:         op Plans:         Dniller Zip:         76401           tiller:         Yes         Dniller County:         75         401         407         4 of 1         ESE         0.92/           tiller:         Yes         Dist to Septic Tit.         100-1         200-1         4 of 1         ESE         0.92/           tiller:         Yes         Dist to Septic Tit.         100-1         200-2         31-47-8           pit.         Sufface Sleeve Installed         Horizon Datum Type:         Grid No.         31-47-8         31-47-8           liller:         Yes         Last Manche:         32,267222         Owners Name:         31-47-8           tith Desc:         Yes         Last Mende:         32,267222         Owners Name:         300-300-3           bir:         Last Mende:         32,267222         Owners Name:         ERATH           bir:         Last Mende:         98         23         256/22         Owners Name:         200-20-20           fear:         No         Last Second:         2         More County:         200-20-20         200-20-20         200-20-20         200-20-20         200-20-20         200-20-20         200-20-20         200-20-20         200-20-20         200-20-20	Prop Use Oth Descr.		Driller State:	ヹ	Latitude:	32 2823375198694	
Iller.         Yes         Driller Ooth Carry:         Driller Ooth Carry:         Indication County:         Driller County:         To         1 of 1         ESE         0.92/           Iller.         Yes         Dast to Sep Contam:         75         0.0+         1.0+         4.878.47           Iller.         Yes         Dist to Sep Dontam:         Owner         4.878.47         4.878.47           pi:         Mark Dowell         Dist to Sep Dontam:         Owner         Owner         A.878.47           pi:         Surface Sleeve Installed         Dist to Sep Joer Tit.         Owner         Owner         Grid No:         1.47.3           Filler.         Yes         Latitude:         32.267222         Owner Slatme:         Grid No:         1.023/1999           Obsers Name:         Lat Mirrute:         13         2.267222         Owner Slatme:         ERATH           Mark Dowell Well Service         Lat Mirrute:         16         Yes         Yes         Mark Dowell           More Sleeve Installed         Lat Mirrute:         16         Yes         Owner Slatme:         17           More Sleeve Installed         Lat Mirrute:         16         Yes         Owner Slatme:         Downer Slatme:         17           More Slee	TCEO Approve Plans:		Driller Zip:	76401			
filler:         Yes         Dbriller County:         TS         Dbriller County:         TS         0.92/         302/         101-         ESE         0.92/         0.92/         101-         ESE         0.92/         0.92/         0.92/         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-         101-	Apprve by Variance:		Driller Oth Cntry:				
liller.         Yes         Dist to Sept Contain: 175         75         70         4 of 1         ESE         0.92/ 478,47           Imm	Loc Vfy by Driller:	Yes	Driller Country:				
## Mark Dowell   Dist to Septic Tk:   Dist to Pop Line   Dist to Pop L	Sealed by Driller:	Yes	Dist to Sep Contam:	75			
Brit   Days   Dist   Dright   Dr	Sealed by Name:		Dist to Septic Tk	•			1
Op/Englight         Surface Sleeve Installed         Dist Veriff Welhod: Horse: Horse of Name Page: Horse	Driller Signed:	Mark Dowell	Dist to Bron Line:	100+		4,678,	
bit	Apprentice Signed:		Dist Verifi Method:	-90+			X
## Process ### Pro	Surface Compl:	Surface Sleeve Installed	Using Party Wellood	Cele	God No.	24.470	
Titler   Yes	Surface Compr.	Surface Sleeve Installed	Horizon Datum Type:		Grid No:	31-47-8	
Test			Elevation:		Date Drilled:	10/23/1989	
bin Descr.         Lat Degree: Lat Segree: Lat Second: Part         32 Lat Second: Lat Second: 2 2 301         County: Water Usage: 2 301         County: Water Usage: Saftic Level: Saftic Level: 10         DOMESTIC           Water Usage: Variety         No. Long Invite: 10         98 171389         Depth Orollect: 29 17180738971115         29 17180738971115           Invite: Variety         Long Minute: Long Minute: 17         10         Long fluide: Latitude: 32.2536219568812         38 17180738971115           Invite: Variety         Dowell Well Service         17         71         1 of 1         W         4.941.82	timer:	Tes	Latitude:	32,267222	Owners Name:	BERT WRIGHT	
bh Desc:         Lat Minute:         15         Water Usage:         Water Usage:         DOMESTIC           alysis:         No         Longitude:         -98.171389         Depth Drilled:         -99.171861         423           ker:         No         Long Minute:         10         Long Minute:         -98.17180738971115           rror:         No         Long Minute:         10         Latitude:         23.25936219588612           me:         3147-8         Dowell Well Service         Long Second:         17         1 of 1         W         0.947           Description:         Full SDR Dalabaser, SDRDB Well Localion (Map)         71         1 of 1         W         4.941.82	Pump Type:	Submersible	Lat Degree:	32	County:	ERATH	
alysis:         No         Lat Second: Largetode:         Static Leval:         Static Leval:         301           ker.         No         Long Tude:         -98.171389         Depth Portlied:         429           fror:         No         Long Minute:         10         Long fluide:         -98.7718073897115           me:         31-47-3         Dowell Well Service         17         Latitude:         32.25936219568612           Dowell Well Service           Full SDR Dalabaser, SDRDB Well Location (Map)         71         1 of 1         W         4.941.82	Pump Type Oth Desc:		Lat Minute:	16	Water Usage:	DOMESTIC	
abysis:         No         Longitude:         -98.171389         Depth Orifled:         429           ker:         No         Long Minute:         98         Long Minute:         98           rror:         No         Long Minute:         10         Lafttrde:         32.25936219588612           rror:         31.47.8         Dowell Well Service         17         71         1 of 1         W         0.947           Full SDR Dalabaser; SDRDB Well Location (Map)         71         1 of 1         W         4,941.82	Pump Depth:		Lat Second:	2	Static Level:	301	
left         No         Long/luide:         28 77180738871115           from:         Sand Minute:         10         Latitude:         32 253621956812           from:         No         Long Minute:         17         Latitude:         32 253621956812           me:         31-47-3         Dowell Well Service         71         1 of 1         W         4347           Full SDR Dalabaser, SDRDB Well Localion (Map)	Chemical Analysis:	No	Longitude:	OB 474290	Death Drilled:	429	
Cong Mayer   98   Conglude:   28   Conglud:   28   Conglude:   28   Conglude:   28   Conglude:   28   Cong		100	Longitude:	-98 7/1389	peper ormea:	429	
fror         No         Long Minute:         10         Latitude:         32.25936219568612           Toor         31.47-5         Dowell Well Service         17           Description:         Total Tof1         W         0.947           Full SDR Dalabases; SDRDB Well Localion (Map)         71         Tof1         W         4.941.82		200	Long Degree:	98	Longitude:	-98 17180738871115	
rror.     No.     Long Second:     17       me:     3147-8     Dowell Well Service     71     1 of 1     W     0.947       Description:     Full SDR Dalabaser, SDRDB Well Location (Map)     71     1 of 1     W     4,941.82		Erath	Long Minute:	10	Latitude:	32,25936219568612	
me:         31-47-8           Description:         71         1 of 1         W         0.94/           4.941-82         4.941-82         4.941-82		No	Long Second:	17		8	
me:         Dowell Well Service         71         1 of 1         W         0.947           s Description:         Full SDR Dalabaser, SDRDB Well Location (Map)         4,941.82		31-47-8					
Description:         71         1 of 1         W         0.947           4.941.82         4.941.82         4.941.82							
Full SDR Dalabase; SDRDB Well Location (Map)	Well Location Description						
Full SDR Dalabase; SDRDB Well Localion (Map)	Comments:						2
						-	

TCEQ WELL LOGS

WELL LOGS

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Order No: 22100504558

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Order No: 22100504558

WELL LOGS

TCEQ WELL LOGS

Мар Кеу

Number of Records

Direction

Distance (mi/ft)

Site

DB

Мар Кеу

Number of Records

Direction

001	75

Grid No:
Date Drilled:
Owners Name:
County:
Water Usage:
Static Level:
Depth Drilled:
Longitude:
Latitude: Мар Кеу Number of Records 31-47-8 04/24/1996 RACHEAL FRAIZER ERATH DOMESTIC 200 295 -98.200976 32.258313 Direction Site 98

72	1 of 1	SSE	0.97/ 5.132.67	WHITE HORSE CHRISTIAN ACADEMY		WUD
				אָל		
PWS ID:	072	0720063		Segment:		
WTRSRC:	G0:	G0720063A		System Sta:	ACTIVE	
ID No:	90	G0720063A		Contact Phone:	254-459-1230	
St Well No:				Primary Co:	OWNER	
Operating Status:		OPERATIONAL		Contact Ti:	VANESSA B HALFORD	
Well Depth:	425			Utility Name:	WHITE HORSE CHRISTIAN ACADEMY	
Water Usag:	AC.	ACTIVE - PERMANENT		Utility Na:		
Static Lev:				Aquifer	218TWMT	
Date Drilled:	08/	08/21/2001		Waterbody:		
Compliant:				Latitude:	32.24802	
Screen Bottom;				Longitude:	-98 182586	
Screen Top:	0			Hdatum:	83	
Gallons Per Minute:	inute: 33			Horz Meth:	DOQ	
Depth Agen:	DRILL	F		Harz Acc:	30	
EPID:				Horz Ref:	STRUC_CEN	
Type:				Horz Date:	30-Nov-2017	
CAD No:				Horz Org:	TCEQ	
Constr:				Horz Datum:	NAD83	
Confine:				Quadnum:	3298-113	
CCN:				Ownr Des:		
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TCEQ WELL LOGS	

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# Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update,

## Federal

Wells from NWIS: FED USGS

The U.S. Geological Survey's National Water information System (NWIS) is the nation's principal repository of water resources data. The NWIS includes comprehensive information of well-construction details, time-series data for gage height, streamflow, goundwater level, and prespitation and water use data. This NWIW dataset contains select Site Types from the overall NWIS Sites data, timited to the following Group Site Types only: Groundwater Group Site Types: Well, Collector or Ranney type well, Hyporheic-zone well, Interconnected Walls, Multiple wells; Spring Group Site Types: Spring; and Other Group Site Types: Aggregate groundwater use, Cistern. Government Publication Date: Mar 21, 2022

# No Federal databases were selected to be included in the search.

## State

Localions of TCEQ Waler Wells as derived from well logs in the Texas Commission on Environmental Quality (TCEQ) Waler Well Report Viewer, which chouldes unmumbered waler wells and those plotted to 2.5 minute grid localions (2.3 miles). In this callection of Well Log Reports, locations have been Well Log Reports from Plotted Water Wells. TCEQ WELL LOGS

Government Publication Date: Jul 26, 2022 manually verified,

## Select Wells from SDR:

Localions of wells from the Submilled Onlers Report (SDR) Dalabase with select proposed usage: Domestic, Fracking Supply, Industrial, Irrigation, Olher, Public Supply, Rig Supply, Slock, Unknown, SDR is populated from the online Texas Well Report Submission and Ratieval System (TWRSRS), a cooperative Texas Department of Licensting and Regulation (TDLR) and Texas Water Development Board (TWDB) application requiring registered water-well drillers to submit reports. Excludes SDR records with the following proposed usage: Closed-Loop Geothermal, De-watering, Environmental Soil Boring, Extraction, Injection, Monitor, Test Well SORW WELLS

# ment Publication Date: Sep 5, 2022

The Texas Water Development Board (TWDB) Groundwater Database (GWDB) contains information on selected water wells, springs, oiligas tests (that were originally intended to be or were converted to water wells), water levels and water quality. Groundwater Database ent Publication Date: Apr 20, 2022 GWD8

High Plains Water Wells:

Grid No:
Date Drilled:
Owners Name:
County:
Water Usage:
Static Level:
Depth Drilled:
Longitude:
Latitude:

N/A 06/08/1992 BILLY WEIR ERATH DOMESTIC 270 360 -98 203185 32 280208

List of water wells in the Hards-Galveston Subsidence District (HGSD). The HGSD was created by the 64th Texas Legislature as an underground water conservation district in 1975 to provide regulation of groundwater withdrawal to control subsidence.

Government Publication Date: May 18, 2022 Inventory of water wells in the High Plains Underground Water Conservation District No. 1 (HPUWCD), which was created in 1951, As a political subdivision of Texas, HPUWCD is charged with protecting, preserving and conserving aquifers within the District's 15-county service area. Harris Galveston Subsidence District Water Wells: Government Publication Date: Apr 20, 2022 WW HARRIS GAL

WW HIGH PLAINS

## Water Utility Database:

The Water Utility Debbase is defined as a collection of data from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEC. This database is an integrated database designed and developed to replace over 150 sland alone legacy systems representing over 5 million records of the former Texas Water Commission and the Texas Department of Health.

Government Publication Data: Oct 1, 2020

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Order No: 22100504558

Definitions

Data base Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabatic order.

Defail Report This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project properly and/or center point of the report

Executive Summary: This portion of the report is divided into 3 sections:

Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary-Project Property- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'. This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report section,

<u>Map Key.</u> The map key number is assigned according to closest proximity from the project property. Map key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will didate 'ERIS Sites with Lower Elevation', the yellow triangle will didate 'ERIS Sites with Higher Elevation' and the orange square will didate 'ERIS Sites with Higher Elevation'

31-47-801

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straw hower to water lived market 360 ft. pump started /2 tu 412 390 364 1 2/2h as 390 " at 390 "

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at 300 gpm

Braw Rouse to

Kinting a coften pump stut off

360-378 331-360 330-33 273-290 272-273 250-272 ₹ 243-250 381-389 380-38 378-380 290-330 241-243 220-24 CASING SET 1421 6" LOCATION PERFORATIONS 941 BETTED BEOMY CLAY Sand stone, clay & 1 Clay Sand Clay Fock Sand & gravel little clay Clay & shale White sand Clay & rock layers Red clay

JOW L

STATEMENT

Irrigation Well Drilling - Turnkey Jobs

Phone 968-2151

Stephenville, Texas 76401

SMITH & WOLF DRILLING COMPANY Bannie Smith

00177

200-220 24-46 78-200 70-78 69-70 68-69 89-94 19-24 15-19 14-15 10-14 5-10 3-5 Bill Wolf SMITH & WOLF DRILLING COMPANY

\*\*Drifting — Turnbey Jobs

Phone 968-2161 GRAVEL LOCATION Texas A & M College PERFORATIONS CASING SET DRILLED FARM \_ 2080 W. Tarleton WELL LOG Rock Sand Clay & small layers rock Rock Rock 6 Clay sandy blue Blue clay Rock Yellow clay Top soil Blue shale Blue clay Yellow clay Blue clay Cross Timbers ExperimentalStation STATEMENT May 1 Stephenville, Texas 78401 198 8 Bonnie Smith 31-47-801

TWD8E-GW-4																			h					5-68	Date:	
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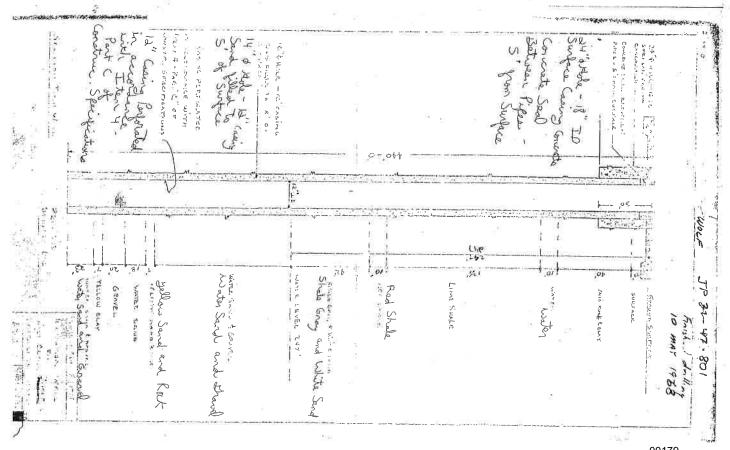
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Pumped well no.

Observation well no. 3/-47-801

																								5-68	Da+•		County :_ Location:
																									Hour		N
				1074						780	720	660	600	240	0.84	420	360	200	240	081	150	120	60	0	(min)	Average Q	CRATH
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									Pump off											Pump off 1/2 he				No se on	Remarks		Observation well no. 31-47-801  Pumped well no. 5



TAD8E-CH-53

\*Additional instru

Enora

15: SMITE SPRINGS RD 15: Code: STEPHENFILLE: 17: 15 HER WELL LIPTON:
LIPTON 119/01 9 40
121/01 9 40
121/01 SCREEN DATA:
9 BESCRIFTON
9 STREE, BLANK
STREE, BLANK
STREE, BLANK
STREE, BLANK onfidenciality
on Regarde Side
UNSPORT SERVICES MP: 400 TRANT THIS WELL WAS DRILLARD BY HE (DR OTDER HY SUBERVISION) AND THAY RACH AND ALL OF THE STATEMENTS BERRIN HEST OF MY EXPHENDED HAD BELLEY. I UNDRESTRAND THAY PAILURE TO COMPLETE ITEMS 1 THRO 15 WILL RESULT IN THE HERD TOP COMPLETY HE AND ARSUMMETTAL. OCIATED SERVICES R: UNDESIRABLE GATES PSHKTEATED Manual Manual STATE OF TELAS
RATER WELL HERONI
ADDRESS: PO BOL 889 RATER WELL DEILLER'S LICENSS NO.: 2404 CITY: STRUMENTIALE STRUE: TX ZIP CODE: 76401 0 0 1809 1809 NELL IEST: 56 635 635 635 635 635 GAGE CASING: 188 205 205 GPH WITH 13 FT DEAMDON'S AFTER .03 EES (signed) SCREEK CEMENTING DATA:

(Genical first

(Genical firs CITY: CASOOL ARTESIAN FLOW: (RECISTERED DELLISE TRAINER) CHEMICAL ABBLISIS MADS O CRAINS OF BARDHESS STAI3: MO NIP: 65689-780H 250 APR 2 5 2001 FOR THE USE ONLY ga 33 DATE: 02/21/01 DATE: 70 449 889 334 BIPARC

ATENTION DWREN: Confidentiality STATE OF TEXAS'
DIVINITION BYSTED AN AVARES SIDE
1) OWER: COLLEGE SON (MILIACRE) ADDRESS: RI. 2 BOX 206C
21 (UGCATION OF NELL: County: ERRIN 2 miles in H direction
LEGAL DESCRIPTION SEE ATTRCHED MAP CITY: STEPHENVILLE STATE: IX ITP: 76401-

31.62.8

8) CASING, BLAKK PIPE, AND WELL SCREEN DATA: DIA NEW/USED DESCRIPTION 6) WELL LOG: 00070 DATE DRILLING: STARTED: 09/27/93 COMPLETED: 09/30/93 DIAMETER OF HOLE DIAMETER 6.75 FROM 410 7) BOREHOLE METHOD: GRAYEL PACKED
IF GRAYEL... FROM 360 From FT. 10 410 FT. 10 77.

NEW/USED DESCRIPTION PYC, BLANK PYC/ SLOTTED

FROM 380

10 380 410

GASE CASING SCREEN SCH 40 SCH 40

SEGLASICAL DESCRIPTION: FROM TO DESCRIPTION

TO DESCRIPTION

I TOP SOIL

COALTONE

OREY CLAY AND SHALE

SO GREY CLAY AND SHALE

SO GREY CLAY AND SHALE

AND GREY CLAY AND SHALE

AND GREY CLAY AND SHALE

AND GREY CLAY AND SHALE

<u>ueniesz</u>

Cemented from No.

O FT. TO 20 FT.

330 FT. TO 360 FT.

Method used: CEMENT-POURED
Cemented by: Bitl & MARTIN

(9) CENEHTING DATA:

No. of Sacks Used

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

HATER LEVEL: SPEC. STEEL SLEEVE

STATIC LEVEL : 340 ARTESIAN FLOW:

SPR.

08TE: 09/30/93 DATE:

12) PACKERS:

SACK

DEPTH 20

SPEC STEEL COMPLETION:

5) DRILLING METHOD: KUB BOTARY

3) TYPE OF HORK: NEW WELL

4) PROPOSED USE: DOMESTIC

CHAIN COURT BEAR 13 Thickgur 100 A XT WARDS Collin #1 GENERAL HIGHWAY MAP ERATH COUNTY Ton Brooks 1376

13) TYPE PUMP: SUBMERSIBLE

PUNP PUNP PUNP PUNP

YIELD: 12 GPM NITH UNK FT DRAWDOWN AFTER 24

18S

DEPTH TO PUMP: 380

IS) WATER QUALITY: TYPE OF WATER:

TYPE OF WATER:

NO STRATA OF UNDESTRABLE WATER PENETRATED

I HEREBY CERTIFY THAT THIS WELL WAS DRILLED BY HE (OR UNDER MY SUPERVISION) AND THAT EACH AND ALL OF THE STATEMENTS HEREIN ARE THE OT THE BEST OF TE-MADWLEDGE AND BELIEF. I UNDERSTAND THAT FAILURE TO COMPLETE ITEMS I THRU IS WILL RESULT IN THE LOC(S) BEING METHAND OF THE THAT AND RESULDITIES.

(REGISTERED ORILLER TRAINEE)

(signed)

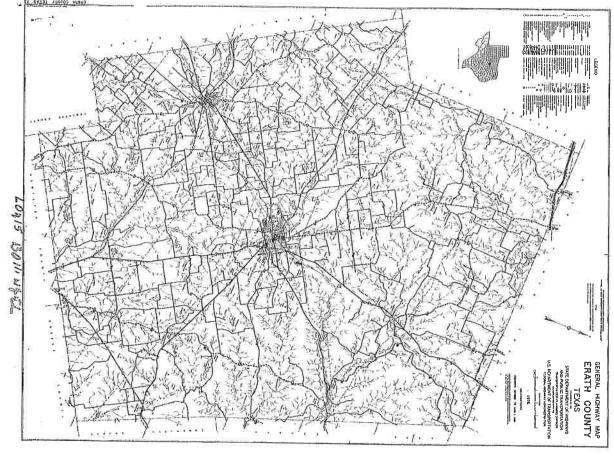
COMPANY MAME: ASSOCIATED SERVICES ADDRESS: P.O. BOX 16

WATER WELL DRILLER'S LICENSE NO.: 2404
CITY: STEPHENVILLE STATE: IX 119 CDDE: 76401

FOR THE USE BALY
HELL NO.
LOCATED ON MAP 31, 47,8

NO CHEMICAL ANALYSIS MADE

Send original copy by cardinal mail by Texture History Copy	to Wider Cor You, P.O. Sex 13087, Austin, Texas 78711	
ATTENTION OWNER: Confidentially Physics, Notice on Revenue Side	State of Texas WELL REPORT	Tazze Wisler Wall Oriflers Board P.O. Boz 13087 Austin, Texas 78711
n owner LOUIS BOLLINGEL	NGEL ADORESS P.	49, Morgan Mill, TX 76465
t) LOCATION OF WELL: County Ecath	(Surres) (Sizes in N   N   Sizes (Surres)	direction from Stepheny()
Driffer must complete the legal description Quarter- or Half-Scale Texas County Gen U LEGAL DESCRIPTION: Block No.	Order must complete the legal description below with distance and direction from two intersecting sects Qualitim- or Hall-Scale Tease County General Höglmery Hap and stooch the map to tab form.  □ Lotal L. DSS-CRIPTION:  Block No.  Township  Abstract No.	on or survey lines, or h
distriction from		
3) TYPE OF WORK (Chack):  8) New Well Despering Peggydrig	PROPOSED (SRE (Check):     Shormade   Industrial   Microtice   Industrial   Injection   Injection	OPRILIBIO METHOD (Chack):
5) WELLLOG: Date Drilling: //1/.	TROFHOLE 7)	COMPLETION:
Completed 4/14 1923	7-7/8 Sameon 75 25	近Gravel Packed □Other □ 1. た 1.
From (ft.) To (ft.) D	Description and color of Exercation material and Cu	CASHO, BLUM PIPE, AND WELL SCREEN DATA:
3 12 0		Part., Showed, siz. Senting (%) Gage
34		U screen Adg., if commercial From To
49 51 7	Tan Sand WAY 2.3 1998 N	Plastic 0 75
51 61 C	Clay Shale TEXAS WAILER DOMINISSIO	W
	9) CE	CEMENTING DATA [Puls 287,44(1)] Comensed from
(Use reverse s	(Use revisce side if necessary)	Abdodused Conventional R No. of Seds Used
13) TYPE PUMP:	EXSubmensible Cylinder to su	ž I v
Depth to pump bowill, cylinder, jet, etc.	60 z	Specified Surface State Installed [Rule 287,44(2),41]
14) WELL TESTS:  Type Test  Pump	Dienad SE Estimetad	Priess Adapter Used [Pule 287.44(3)(8)]     Approved Allemative Procedure Used [Pule 287.71]
R OUALITY: I knowingly paretrus a	3	WATER LEVEL: State level 31
Type of webset?	If you, submit "REPORT OF UNDESIRUBLE WATER"  12) PACKERS:  Depart of stream.	OCERS: Type Depth
serably centify that this well was defined by ma serably centify that this well was defined by ma	The (or under my supervision) and that each and sit of the states that is no log(s) being returned for completion and result into	Throby cently that it is well was diffied by the [or under my supervision] and that each and all of the statements herein are the to the best of my knowledge and belef. I understand that all are to complete limits if the logist head restands for completion and measurable.
COMPANY HAME Double Diam	Dauble Diamond Drilling WELL DAW.	WELL DRILLER'S LICENSE NO. 2682
	518	(Sump) 76048 (Sump) 76048
(Liconaux)	3	(Registered DeBar Trainee)
TWC-0199 (Rev. 05-18-90)		To through day; year no. Localed on map 24 1 2/2



COMPANY NAME Associated Services Thereby countly must the well was of that by me (or under my supervision) and net each and all of the satuments herein are true to the best of my intomicidge and belief, Lunderstand that takes to complete learns in the country being returned for completion and resultantial. 1DOHESS \_\_ Date Drilling: 12-2
Started 12-2
Completed 12-4 15) WATER QUALITY: 8) WELLLOON Dister must complete the logal description below with distance and direction from two intersecting section or survey fines, or he must locate and identity the well on an ortical Quarter- or Half-Scale Texas Country General Highway Map and ettach the map to this form. 200-220 Clay, rook
220-240 Clay
240-280 Sandy clay
240-280 Sandy clay
280-290 Sandy clay, said
(Us revote dis l'impossible)
(EFR 1 & 1992 0-860 SEE ATTACHED MAP CI LEGAL DESCRIPTION: Did you knowingly penetrate any smalts which contained undesinable containents?

Thes £3do If yes, submit TREPORT OF UNDESHABLE WATTER. Type of water? \_\_\_\_\_\_\_\_ Depth of strata.

Was a chemical analysis made? ☐ Yes ☑ No. 80-100 100-160 Clay, rock From (ft.) To (ft.) Distance and direction from two intersecting section or survey lines Clay Sandy clay, sand Sandy clay, sand streaks Hook, olay streaks Stock No. 19 <u>9 1</u> <u>9 3 / 4</u> Sumbos (Gen to Description and color of formation material Depth of strata Township FEB 1 & 1992 360 Stephenville (GM) 皇皇 (Signed) WELL DRILLER'S LICENSE NO. Department of the server of th 4 N PVC Slotted 2 S TOP BOOK 11) WATER LEYEL:
Static level 280 ft. below hand surface 12) PACKERS: 8) CASING, BLANK PIPE, AND WELL SCREEN DATA: 3 De-Watering New Steel, Ptastic, etc. or Perf., Signed, etc. Used Screen Mig., if commercial Arthidan flow #Gravel Packed give Interval ... Irom 280 ft to 350 ft ★ Gravel Packed Coner BOREHOLE COMPLETION: Open Hole PVC Blank s) DRILLING METHOD (Check): DRILLING METHOD (Check):
 Driven
 Must Rosay:
 Air Reserve:
 Air Rosary:
 Cable Tool:
 Other Straight Well (Registered Driller Traines) Survey Name

TEXAS WATER COMMISSION COPY

For TWC use only: Well No.

2404 (State

75401

Sack gpm. Type

Date

12-4-91

MD-012 (Flev. 05-18-90)

asse attach electric log, chamical analysis, and other perinent information, if evaluaties

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

1

ATTENTIO, FORNER: Combinidatly Phyliogie Notice on Reverse Side

State of Texas
WELL REPORT

Peace use black int.
Texas Water Well Drillers Sound
P.O. Box 13067
Austin, Texas 78711

County Enath OWNER Roy Ed Griffin

miles b N deeddon from Stephenville (Yes, Sw. etc.) (Town)

ADDRESS P.O. Box 1136 Stephenville TX 2888

The Water Well Drillers Board and the Texas Water Commission are concerned that some persons having wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs,

Include the name, maling address, and telephone number of the Board and the Commission. The well log required herein shall atthe request in writing to the Commission, by certified mail, by the owner or the person having such well diffied be held as combiential matter and not made of white county. or cessation of drilling, deepening or otherwise altering such a weter well, shall deliver or transmit by certified mall a copy of such well tog to the Commission, and the owner thereof or the person having had such well drilled. Each copy of a well log, other than a Commission copy, shall copy of a well log, other than a Commission copy, shall and keep, or cause to be made and kept, a legible and accurate well log, and within 60 days from the compileton otherwise altering a water well within this State shall make "Every licensed water well driller drilling, deepening or

The last seritence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential.

320

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From To Setting (IL)

Casting Screen

□Undernesmed

340-340 350-340 350-340 350-350	From (NL)
Send with City layers Sand, graval' Rook, ghale, clay	scription and

CALE RUSON

COUNTY PARTY TO

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NACKED ! TRAVES BON GENERAL HIGHWAY MAP
ERATH COUNTY TEXAS

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ASSOCIATION 1700 1300 COMPANY NAME DOWELL Well SERVICE Lee, Water Well Driller's License No. ADDRESS PO Pireze use black inte.
Send original copy by
certified mails to the
Torset Department of Water Resources
P. O. Box 11057
Austin, Torse 78711 6) WELL LOG: 3) TYPE OF WORK (Check): Ortice must complete the topal description to the right with distance and direction from two scarnesting state than or army lines, or he must looke and debut in the flow will on an antificial Distance or Houles have County for Conference of House County in the County of the County D LOCATION OF WELL I OWNER ROY Reconditioning WATER QUALITY: Did you knowledy pontrast any strata which contained undericable water? 

No. 20 No. 2 62 Date drilled 6-2/-85 attach electric log, chemical analysis, and other pertinent information, if available 0 I have by cardify man this well was drilled by me for under my supervision) and that each and all of the statements heveln are gue to the best of my two old against a think well was drilled by me for under my supervision and resubmittes. Mark Double 歪过 360 CARS WATER COMMISSIO □ Plugging (Use reverse side if necessary) Ocopening EGEIVE 001 80 1985 四 6/2 0 4) PROPOSED USE (Check): DIAMETER OF HOLE
Dia (in.) From (it.) To (it.) ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side State of Texas
WATER WELL REPORT 2 See attached map. Stephenville Legal description: Section No. (Signed) Distance and direction from two intersecting section or survey lines Abstract No. 14) WELL TESTS: 131 TYPE PUMP: 12) PACKERS: N N 10) SURFACE COMPLETION 11) WATER LEVEL: 9) CEMENTING DATA N 25 B) CASING, BLANK PIPE, AND WELL SCREEN DATA: Other, ☐ Turbine Depth to pump bowls, cylinder. Specified Surface Stab Installind (Rule 319,44(c))
Pitlass Adapter Used (Rule 319,44(d))
Approved Alternative Procedure Used (Rule 319,71) Comment by Bowell Well Service. SOREHOLE COMPLETION:

Open Hole

Straight Wall

Gravel Packed

Other Yield: Type Test: If Gravel Packed girs interval ... from (Registered Oriller Traines) S) DRILLING METHOD (Check): Puc 11-55-Steel, Plastic, etc., Perf., Stotted, etc., Screen Mgf., if commercial ٦ ت Survey Name sirection from Stephenicille 2000 [Rufe 319,44(b)] Teras Bailer X Submersible Stephenille Tox 745 -gpm \_ Township Wall No. Wall No. Wall No. Wall No. t. drawdown after\_\_ □ Driven A Jetted Taxas Water Well Drillers Board P. O. Box 13087 Austin, Texas 78711 340 Setting (ft.) Date 71.40/ Dec. □ Underramed Cylinder . COther\_ □ Bore¢ ☐ Estimated 360 <u>چ</u> Two.

TECHNOLOGY TO THE PROPERTY OF THE PROPERTY OF

Company S.

CL EAXAL TIMMOS HIAMS

Please attach electric log, chemical analysis, and other pertinent information, if available.

DEPARTMENT OF WATER RESOURCES COPY

Mark Dane 1)

(Signest)

Texas (State)

Deliter must complete the legal description to the right with distincts and direction from two intersecting section or sweety lines, or his must seat and identify the spell an an an initial of burner; or fellowisces it may be county   0000	11 OWNER TEHOUSE IN THE CASS	Please use black liet. Send original sour by certified real to the Total Department of Water Resources P. O. Box 13097 Austin, Totals 78711 Austin, Totals 78711
	1 to 1 a	WA NTION OWNER
Legal description: Section No	miles in INGESTM. etc.)	WATER WELL REPORT WATER WELL REPORT ATTENTION OWNER: Confidentially Printings Notice on Revenue Side
Block No.		:T olice on Revorso Side
Township .	Stephenville Tex 21,490, 120, 120, 120, 120, 120, 120, 120, 12	Texas Water Weil Driffert Board P. O. Box 13087 Austin, Texas 78711

									dan des services	TATE DEVELOPER OF HERMAN AND PRICE PRODUCED FOR U.S. DAMPING TO TRANSPORT OF HERMAN PRODUCED FOR TRANSPORT OF HERMAN PROD	GENERAL HIGHWAY MAP ERATH COUNTY TEXAS	•
Rnowledge and ballet. Lunderstand that failure to complete learn 1 thru  COMPANY MAME (Double   Lu-   Serve Complete   Water Well  Water Well  COMPANY MAME (Double   Lu-   Lunder Well  COMPANY MAME (Double   Lu-   Lunder Well  COMPANY MAME (Double   Lunder Well  COMPANY MAME (Double Medical Well  COMPANY MEDICAL Well  COMPANY MEDICAL WELL  COMPANY MED (Double Medica	Did you knowingly personal name under contained underlable water	(Use rivers ide il necessor)  15) WATER GUALITY:	DEGEIVE D			190 - 420 (1944) 190 - 360 (1944) 190 - 360 (1944)	- 20 200 200	Date drilled 9-3-85 6/12 0 4/20  From 16:1 To Description and color of formation (ft.) 11:1	3) TYPE OF WORK (Check):  4) PROPOSED USE (Check):  5) New Welf Despening Domestic Industrial Debtic Supply  Checonditioning Displaying Circipation Trest Well Dohe (2014) And Section Control Check (2014) And Section Check		11 OWNER TEADURA WITHOUT KINGOOD  2 LOCATION DE WELL: COUNTY ERATH  Miles in	State Security State State Security State WATER   WATER   To all Dygon of Water Resources ATTENTION OWNER: Confidence Security State State State State Security State Security State Security State Security Secur
ms 1 thru 12 will reduct in the logist being returned for completion and resubmittes. Water Well Driller's License No. $1891$	14) WELL TESTS:  Type Test:	□ Tarbine □ Let JS Submerible □ Cylinder □ Other □ Dopth to pump bowls, cyllinder, jet, etc.,	Static levelft. below fond surface	10) SURFACE COMPLETION  SE Specified Surface State Installed [Rule 319,44(c)]  Priters Adaptor Used [Faule 319,44(d)]  Approved Alternative Procedure Used [Rule 319,71]  11) WATER LEVEL	BELLA	SI CEMENTING DATA (Rub 319.44(b))	Dia, Mer Sine, Paris, nr., Greing (It.)  (In.) Uses Serven Mgf., If communical From To Someon  4 M PUC PEAE O 420 54,44	Open Hote   Ostroge Wall   Obdervamed	See attached map.  St. DRILLING METHOD (Check):  Sp. DRILLING METH	D 3	Stephennille Tex 71,491  Stome of RED)  Stome of RED)	State of Texas  WATER WELL REPORT  WITH WELL REPORT  AUXILIARY  P. O. Son, 13087  Auxin, Texas, 78711:

TEXAS WATER COMMISSION COPY

WC-0397 (Rev. 06-10-85) Please attach electric log, chemical analysis, and other pertinent information, if available.

COMPANY NAME DESIGN LIGHT SERVICE TEST Water Well Driller's License No. 1891 0 - 4 Topsail
4 - 20 Calishe
20 - 240 Shirte
140 - 240 Shirte (1st
240 - 240 Shire (1st
240 - 240 Shire
240 - 360 Ked (1st) (Signed) ADDRESS P.O. BOY 558 340-360 240-260 260-260 280-300 300-340 Starred 3-10 8 WELL LOG: Dollar must complete the legal description to the right with distinct and description two lines seeing see that one showing the control of th 3) TYPE OF WORK [Check]: M New Wolf ☐Reconditioning ☐Plugging Did you knowingly penetrate any strata which contained undestable water? CI Yes Did II Yes when "REPORT OF UNDESIRABLE WATER"

Type of water? Depth of trata WATER QUALITY: Was a chemical analysis made? O'ros O's No Completed 3-11 29 AST TO THE COUNTY OF THE PRINCIPLE OF TH I have by earthy that this well was drilled by ma (or under my supervision) and that each and all of the statements herein are true to the bests of my Knowledge and belief. I understand that failure to complete from 1 thru 12 with result in the logich being returned for completion and resulentists. £4 Despening SAND 1986 10 1/4 O TEXAS WATER COMMISSION CA MAY 2.9 1385 | 4) PROPOSED USE (Chack): Dirrigation CTast Well Cinjection Cother\_\_\_\_ © Domestic □ Industrial □ Monitor □ Public Supply DIAMETER OF HOLE

From (ft.) To (ft.) and calor of formation material Stephenuille OER See attached map. Distance and direction from two interspeting section or survey lines\_ 14) WELL TESTS: Oia. Oia. 13) TYPE PUMP: 12) PACKERS: 11) WATER LEVEL: 4 N Stock Shatted 8) CASING, BLANK PIPE, AND WELL SCREEN DATA: 10) SURFACE COMPLETION Other\_ ☐ Turbine Specified Surface Stab Installed (Rule 319.44(d))
Pitiess Adapter (Leed (Rule 319.44(d))
Approved Alternative Procedure Used (Rule 319.71) Dopth to pump bowls, cylinder, jet, Comment of Dawell Well Service Text Yield: Type Test: If Graves Packed give interval ... from \_360\_ft. to 420\_ft Static level 340 Registered Driller Trainee) 4人です Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., of commercial ☐ Pump ار ا SI DRILLING METHOD (Chick): Texas Air Rotary Cable Tool Cother \_\_\_ ☐Mud Rotary ☐ Air Hammer ☐ Jerted ☐ Sorted \_\_fr, below land surface □ Bailer 3 Submersible Type P.C. Well No. use only 3 -47-8 Deltod drawdown after \_\_\_\_\_ hrs. Date Section (ft.) Date. 7/0/0( ☐ Underreamed Cylinder Depth ☐ Estimated 420 Driven Casting Casting Casting

L \$973 AMOO RIVIO	
	GENERAL HIGHWAY MAP ERATH COUNTY EXAS FIRE EXAMPLE TO ALL THANKS AND FILE THANKS OF THE CONTROL TO ALL THANKS OF THE COUNTY OF THANKS OF

1,31 NISL I'MI EIWI Tees Water Wall Online Board P. O. Box 13087 Austin, Texas 78711

Pleuse use stack ink, Send original copy by contified mail to the formal was Commission P.O. Bax 13087
P.O. Bax 13087
Austin, Taxas 78711

ZI LOCATION OF WELL:

3194

Abstract No.

☐ Legal description: miles in [N.E., S.W., are.) Address (250 M

ion No.

Block No.

Township

Survey Name

11 OWNER DOAN

Taylor

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

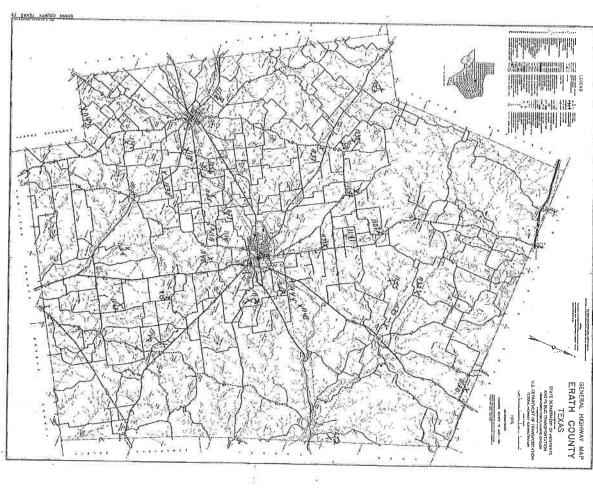
WATER WELL REPORT

State of Texas

).

GRECA Stankerwille Texas 75%

direction trom Stephen un Me



13) TYPE PUMP: SUBMERSIBLE DEPTH TO PUMP: 360

14) WELL TEST:

YIELD: 10 g Ku G

GPN WITH UNK FT DRANDOWN AFTER 24

HRS

NO CHEMICAL ANALYSIS MADE

DUNSELVATION COMMISSION

12) PACKERS:

STATIC LE.
STATIC LE.
ARTESIAN FLOW:
TYPE
SACK

9 7

DATE: 06/08/95

20 **BL630**  WATER LEYEL: STATIC LEVEL: 300

UBAIBSE

15) WATER QUALITY: TYPE OF WATER:

TYPE OF MATER:
NO STRATA OF UNDESTRABLE WATER PENETRATED

I HEREBY CERTIFY THAT THIS WELL WAS DRILLED BY ME (
ARE TRUE TO THE BEST OF MY KNOWLEDGE AND SELIEF / I
LOG(S) BEING RETURN FOR COMPLEXION AND RESUBLITY

OR UNDER AY SUPERVISION) AND THAT EACH AND ALL OF THE STATEMENTS HEREIN THEELY

(signed)-

HELL DRILLER

(signed)

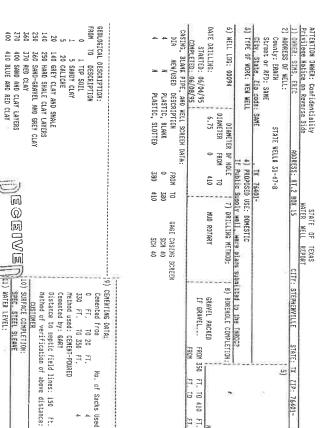
(REGISTERED DRILLER TRAINCE)

COMPANY NAME: ASSOCIATED SERVICES ADDRESS: P.O. BOX 16

CITY: STEPHENVILLE

WATER WELL DRILLER'S LICENSE NO:: 2404
TEPHENVILLE STATE: IX ZIP CODE: 76401

FOR THE USE ONLY
NELL NO. \_\_\_\_\_\_\_



DEPARTMENT OF WATER RESOURCES COPY

Hor TOWRYSO ONLY - BLL.
WON NO. 31-47 - BLL.
Located on map YES E.F. E.

Please attach electric log. chemical analysis, and other perbnent information, if available.

	TOWR use only	(Registered Orliter Trainee) For		/naufact	Haw Wall Orgher)	I	4
-	De la	A. A	2 9	Conne	to Ori	Tonme	(Signed)
l	76401	de Ins	Lephemode		The new	ADDRESS 1930 (A	A00
Į		1000	Water Well Driller's License No	Water We	Dullen	3/2/	EQ.M.
	true to the best of my letion and resubmittal.	I have by certify that this wall was drilled by me los under my supervision) and that each and all of the statements haven are true to the bear of my knowledge and sawly. I understand that failure to complete items I thru 12 will result in the legis) being returned for completion and resubmitted.	i) and that each and 12 will result in the	my supervision	was drilled by me (or under	I have by cardfy that this wall knowledge and salify. I under	
ı	O Jetted	gam with 0	Type Tott		DESIBABLE WATER"	If yet, submit "PAGET OF UNDESHABLE WATER"  Type of water? Literate Orph of trust  Wat a chemical analysis much	
]			14) WELL TESTS:		trata which contained under	Did you knowingly penegore any i	
	338	☐ Other	Depth to pump	URCES	Use reverse side if a MANER RESOURCES	(Use reverse the	ā
	e □ cylinder	□ Jes Asubmersible	13) TYPE PUMP:		DEPT OF		
Ш					III		
П	Depth	Туре	12) PACKERS:		DVIDOB(C		
, , &	Pare Date	owgpm.	Static level Arresian flow				
>		, ,	(1) WATER LEVEL				
	Jk 319.71]	Approved Alternative Procedure Used [Aute 319.71]	Approved				
	1,44(c))	Specified Surface Stab Installed (Rule 319,44(c))	Of Surface Completion  Specified Surface Stab In				
					& Bed	368-369 No	L
1 7	cement	7 8/12 84 V	Mathod used	0	Water San	. 368	4
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		1 1	OR CONTRACTOR		derrestone	5-250 Jun	1
5/32	5K-5hE	States		A	of Blue Clay	2 561-	17
351	0 369	Store	17 54		ock & Callegar	N CC	
Screen	From To	Peri., Slotted, etc., Screen Mgf., if commercial	Used		Delvo	1	1
	in If	Now Scal Plate TE	Now S		material	- }	0
7	01.3	re Graver rulewers (per external   Irgm		Poisting	Description and color of fo	From To	
	□ Underroxmed	Doen Hole Straight Wall  Grand Pocked Other	Open Hole	6/14	Os. Ind. From (It.) To	Date drilled 5-1-84	
		Sable Tool		n Comar_	Dirrigation   Tost West   Other	Differentiationing Dialogging	£ (1)
	□ Driven □ Bored	S) DRJLLING METHOD (Check):  Amud Rotary	N S	edt   Public Sc	al PROPOSED USE (Check):	Mow Well Despening	AT S
		mapon 31-40-10	San Attrached map. # 9. / Tagon	☐ See attach			
	VEY Floor	Authors and direction from two intersecting section or survey fines	and direction from	Distance and	ste Texas County hap to this form,	well on so official Courter- or Half-Scale Texas County Scheral Highway Mao and attuch the map to this form,	911
	ship	alock NoTownship	ription:	Legal description:	ntion to the right	iller must complete the logal descrip th distance and direction from two	2.20
	Xephennell.	direction from Alex	N.E. S.W. etc.)	miles in	75	COUNTY GRAIN	-
	16 2 p	Fleghenselle 2	Street a AFDI	Address	Carried C	LOCATION & MELL	2 3
	Austin, Texas 79711	on Reverse Side	ATTENTION OWNER: Confidentially Privilege Notice	NER: Confidentiality	-	O. Box 13087  ustin, Toxes 7871)	Þ.0-
pare	Texas Water Well Orillers Board			State	-	Elease use black ink. Send original copy by certified mail to the	1882
		•	0 1		•		1

O Myste Bailey
O Ray Crews
Schanie Clayer
Bakers This Mise Eddy Ray Crews GENERAL HIGHWAY MAP
ERATH COUNTY
TEXAS

SATE EXPANSION OF THE CONTROL OF THE CONT

s) which tends 160 ft. below land surface. Date 10-1278 35-220 35-220 35-220 138-238 WINNESS. Struct, 10G: 614 f.a., Depth artified 300 fc. Depth of completed well 320 New in 1 Check): SOURCE OF THE SO COMPLETION (Check); Depth to pump books, cylinder, jet, etc., NO PHMP to Arresian pressur 3 1bs, per square then Under remed below land surface. Straight wall 184 320 Reconditioning hotare by micenih may showing Landencka, rouds, secular, hivey sumber, que." 10. D. D ROW ON Server Company XXX D the transles 十七日日十 2r188tag Grave backet MAN WILLIAM Thereby cornity than this voil van drilled by me for under my supervision) and than each and all of the neutoments herein are rous to the best of my involving and belief.

\*\*Description\*\*: \*\*De Open Hole (NES) Charles ornation carevial Jun Charle Anales O San B All measurements made from 4)PROPOSED 158 (Check):
Domosetc (ndurerial Irrigation Other 20 Test Rell 12) WATER QUALITY: You a chemical analysis made? ID) SCREEN: 470 Type: Old Dismater (inches) (Inches) 151552 T126 Pertoryeed Type of water? Temperature of water centured from Did any strate contain undesicable cater? Arteslan flow Batter test 15 pm vich 20 fc. drawdown after tplo14 Was a gump tent made? NA Address (Server or Arn) Dowell Give legal location with distances and directions from adjacent sections or survey lines. (NUT) NET SHY SELY) of Section Abstract No. Orher Municipal

200

320

3/16

Slotted

From (£t.)

spa with

fr. drawdown after

hea.

5

If yes, by whom?

frabeve ground level.

ft. Date drilled /0-/2-7

Stock

Sile

Flasetic Other

STEEN SO SELECT Cable

Driven

SHEYBY League

Jetted

Bored Bag

From (ft.)

0

320

Sox

3

attach electric log, chemical analysis, 5 orber pertinent information, if available,

Well Deprice Les

OWA-0392

Additional instructions on reverse side.

10x35 76401

depth of strata

4

Yes

\*Addictional instructions on reverse side.

ADDRESS AD BOLLED STATES OF THE STATES OF TH Please attach electric log, chemical analysis, and other perfinent information, if available, 13) WATER QUALITY: Driller must complete the right description to the right with distance and direction from two intersecting are with distance and direction from two intersecting and other distance intersection or the must be are and distance in the must be are accountly one will do an an official dustrate or Half-Scale Texas County Comment Highway Mus and attach the must be the County of County. 95-65 65-230 320-245 245-360 840-360 Send original copy by certify(final) to the Texts Department of Water Resources P. O. Box 13087 Autin, Texts 78711 11 OWNER C. Did you knowingly ponempa on y trata which contained underlable water | 0 Yes | 0 Feb 380-430 160e) MELL LOG: 31 TYPE DE WORK (Chack): COUNTY BOND 430 Mark A 360-380 ☐ Reconditioning Sew was (ft.) 0 Date drilled / 3 25-78 J94 29 (Use reverse side if necessary) ⊒ Plugging C Dospe I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief TENNER Description and color of formation material CATE 0 410 DIAMETER OF HOLE

DIA (In.) From (In.) To (In.) 4) PROPOSED USE (Check): Shall Shall Dimigation O Test Well Of Other De la la Proposing po Syrapes rologon Stapheno: 11e State of Texas
WATER WELL REPORT Water Well Drillers Registration No. (N,E\_S.W\_esc.) At 3 RFO the bushel, shating 58 1Z) WELL TESTS: Yield: 20 11) TYPE PUMP: 101 PACKERS: Commence from 1 1. 10 340 1.

Method used PRINCH Wild Septice 470 Commence of PRINCH Wild Septice 470 Commence of Individual 1. O Turbin □ Jet 12'Subm
□ Other \_\_\_\_\_

Depth to pump bowls, cylinder, jet, etc., State level 3 SQ It below and surface Artesian flow 900. 81 CASING, BLANK PIPE, AND WELL SCREEN DATA: f Gravet Packed give interval . . . from 71 SOREHOLE COMPLETION: Co o N C Open Hote mapon Steel, Plastic, etc. Parl., Stotted, etc. Screen Mgf., it commercial C. Mud Rotary C. Air Hammer C. Driven C. Bared 5 ORICLING METHOD (Check): 2 Pump 0 top homo! 180 Company Named Туре diretion from Star Charmet 100 CEMENTING DATA Straight Wall th A D ft. drawdown after her. La Submerajole 31-55-16 Dopth MAR 1 5 1982 Coate 19-15-79 From For TOWN use any
Well No. 3/-47-86.
Located on map 1/25
Received: C.E. 3/ 1647/cHo Sarring (It.) ☐ Underreamed □ Cylinder 70

Sond original copy by
entified mail to the
Temms Water Daysoloment Board
2. O. Box 13087
Austin, Texas 78711

Person having well deilled

BOR don

Jt3 5

Stephenu: 1/16

(BEAS (State)

direction from

District Colo

(Etty)

(State)

WATER WELL REPORT State of Texas

Set 100 use only Kell to 3 - 47-875 Located to man CO

Lass

NYC-0292 (Rev. D&-10-85)

No. Use poly - 7 - 8

Please attach electric log, chimical analysis, and other perrinent information, if available

SIPHENNILE TEUS THEY TOE

COMPANY NAME ADDRESS 1 256 - 000 15-220 09-44 Proper use black inc.
Send originat copy by
carefuled mail to the
Texas Water Commission
P.O. Box 13087
Austin, Texas 78711 1) OMNER MONTY 000 - 00 20-69 C D LOCATION & WELL! Did you katowingly penetry day stata which contained undestru water? — Yes:

Like

U yes, worst, "Refresh OF syptishana" WATER."

Type of the state 75-WATER QUALITY! 79 New Wall THE OF WORK (Chack): Jamang Mall Berg 23 here by certify that this well was drilled by ma (of under my supervision) and that such and all of the statements hearin are true to the best of my schoolsdop and splain. I understand that failure to completes items 1 thru 12 will result in the logic) being returned for completion and resultmittal. ☐ Phugging Deopening Sand Rock dimedone Blue BRUSE dans 87 77/6 Surface 3 点 11 到 10 g (C any suara which contained undesirable 4) PROMSED USE [Check]: ☐trrigation ☐Test Well ☐Injection EDamestic Clindustrial OMon Shule 11 1386 ATTENTION OWNER: Confidentiality Privilege Notice at Re DIAMETER OF HOLE WATER WELL REPORT ☐ Legal description: Water Well Driller's License No. State of Texas itar □Public Supply Abstract No. Section No. stunts and direction from two intersecting section or survey lines. Attached crap. OO Other Les hamille 14) WELL TSSTS: N 5.7 200 13) TYPE PUMP: S) CEMENTING DATA [Rule 319 441b]]
Committed from 12 9t. 10 0 ft. 11) WATER LEVEL: 10) SURFACE COMPLETION 8) CASING, BLANK PIPE, AND WELL SCREEN DATA: 12) PACKERS: Cother. ☐ Turbing Specified Surface State Invalled [Rule 319,44(d)]
Sheer Adapter Used [Rule 319,44(d)]
Approved Alternative Procedure Used [Rule 319,71] Method word that willey 9th consist BOREHBLE COMPLETION:

Debut Hale

Gravet Packed

Other Type Test: - - - Pump L If Gravel Packed give interval . . , from Static level State Stand RIOCK NO D Jos Survey Name SI DRILLING METHOD (Cherk) EMud Rotary DAir Hammar Dair Rotery Cable Tool 0 120 below land surface mudle 2-4 76861 S Die D James th. No. of Sacks Used 24
No. of Sacks Used \_\_\_\_\_ Toxas Water Well Orillers Soard P. O. Box 13087 Austin, Taxas 78711 337-357 76401 0 Setting (fc.) 02 23-87 Dute. ☐ Underreamed ☐ Cytinder Other . Dietrod Disorad Estimated 357 /SG Drivan

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O there of the STATE COURT TEXAS o Orania Freques Chery Elder C A Ban Jick Kinso & 2 " ERATH COUNTY TEXAS

DARRENT OF HIGHWAYS

URLIC TRUESPORTATION

VARIABLE PROPERTY OF HIGHWAYS 3006 175

thereby certify that this weak was estable by the for under my supervisor to the control that the control th ase attach electric log, cherdoal analysis, and other perthant information, if available 15) WATER QUALITY: 14) WELL TESTS: Date Drilling: 6) WELLLOG Office must complete the legal description below with distances and direction from two histreading section or survey lines, or his must locate and identity the wall on an official countries or Half-Scale Texas Country General Highway Map and stocks the map to the form. Completed 1-24 19 9 SEE ATTACHED MAP C LEGAL DESCRIPTION: ATTENTION OWNER: Comidendally Privilege Nation on Reverse Side ☐ Reconditioning □ Turbina Did the disting persystem by strats which combined undestrable constraints?

Yes The Hyps, submit "REPORT OF UNDESIRABLE WATER" Type Test: Pump Depth to pump bowls, cylinder, jet, arc. TYPE PUMP: TYPE OF WORK (Check): Was e chemicel analysis made? 🔲 Yes County EAST From (ft) Distance and direction from two intersecting section or survey lines OWNER UD PO. BOX <u>4</u> 70 (P) □ Phugging If you, submit "REPORT OF UNDESIDABLE WATER"
Dooth of strate Z Sedk. □ Baller IN LEGIOLOGICA Description and color of formation material Contraction of 4) PROPOSEOTISE (Chack):
-Biomestic Disdustrial
Dirigation Direct wed ESTATER COMMISSION DIAMETER OF HOLE SUCTION F sion) and that each and all of the statements becain are true to the best of my knowledge and beliaf, i understand the completion and resubmittal. 5 1990 ☐ Estimated 10(0) State of Texas
WELL REPORT ☐ Montton 31-55-7 ADDRESS P.O. (in) Dia New WELT DRITTERS LICENSE NO. HENVILLE 11) WATER LEVEL: Static level 3/0 10) SURFACE COMPLETION

Specified Surface Stab Installed [Fice 287.44(2)(A)]

Please Judgmer Uned (Fice 287.44(2)(B)) (NE. SW, elc.) 12) PACKERS: 8) CASHO, BLANK PIPE, AND WELL SCREEN DATA: De-Watering COMMIND DATA (FILM 287.44(1))
COMMIND THE TOTAL TO THE TABLE THAT OF SHORE USED LIFE TO THE TABLE THE TABL Marca used Comented by Tourier M. B. J. All Share Used Actorian flow Pripartived Alternative Procedure Used: (Rule 287.71) BOREHOLE COMPLETION: For TWC use only: Well No. 31-47. 8 Located on map If Gravel Packed give Interval . . . from Open Hole SCH 40 PVC Philip Steel, Plastic, etc. Pert., Statted, etc. Screen Milg., Il commercial Lund 7/ 9 Other DRILLING METHOD (Chack):

| Mad Righty -- Air Hammor | Cabbo Tool Straight Wall I'L below land surface Registerad Driffer Trathoo) Survey Name (orms) Туро H 1891 340 ""ACO " Please water Well Drillers Sound
P.O. Sour 1997
Austin, Texas 78711 From Q Setting (ft.) □Underreamed mor Jones Bored Date 84 7640 Depth 76451 Casting Scroen

TEXAS WATER COMMISSION COPY

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xiginal copy by contiled mail to: Texas Water Cort

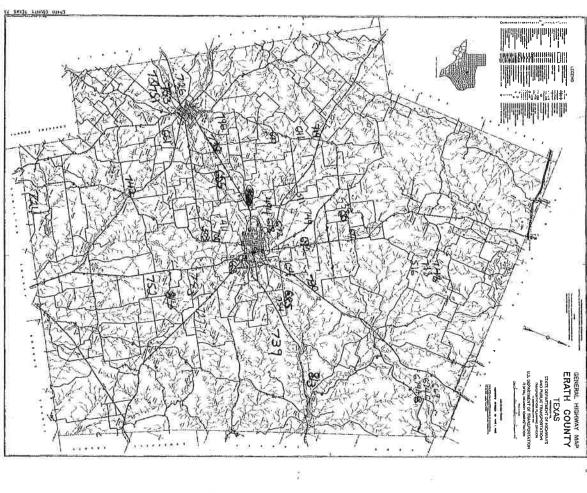
on, P.O. Box 13087, Austin, Texas 78711

SVEST LINNES HERE TEXAS
STATE DEPARTMENT OF HOMENATS
AND PUBLIC TRANSPORTATION
AND PUBLIC TRANSPORTATION
AND PUBLIC TRANSPORTATION
TO TRANSPORTATION
TO TRANSPORTATION
TO TRANSPORTATION GENERAL HIGHWAY MAP ERATH COUNTY 1976

(Signed) COMPANY NAMEDOWELLWELL SETTICO INC. ADDRESS 13) WATER QUALITY: 31 TYPE OF WORK (Check): Dutter must complete the high description to the right with datasets and distriction from the right description to the right tool description from two interesting more from or surroy lines, or he must locate and descript the work on an official Dutters or Attal-Soute Tests Govern General Highway Afren and attracts the good on that locate in the control of the cont 2) LOCATION OF WELL U OWNER Send original copy by Send original copy by Certified main to the Toxas Department of Water Resources P. D. Box 13087 Austin, Toxas 78711 New Well Date drilled \_\_10/22/82 Mark Day P.O. Box 5558 Troy Moore: Doctoring Doctor Use rever WATER-RESOURCES DEGEIVE D I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief Charles Charles 4) PROPOSED USE (Check) ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side AUE 28 1985 But appear of organish ②Domestic ☐ Industrial ☐ Public Scoply ☐ Irrigation ☐ Tast Well ☐ Other The gar SPI OF DIAMETER OF HOLE and color of formation 654 Stephen#111e AS P 0 450 State of Texas
WATER WELL REPORT Water Well Driller's License No. Lagui desc Distance and direction from two intersecting section or survey lines. Abstract No. Section No. (Signed) 4 W Steel, Slosted 12) WELL TESTS: III) TYPE PUNP 101 PACKERS: Cio 8) CASING, BLANK PIPE, AND WELL SCREEN DATA: 7) BOREHOLE COMPLETION: Rt.2 Type Test: Depth to pump bowls, cylinder, jet, etc. Turning Cother \_ Cemented by Dowell Well Service Inc. (Company or Individual) ☐ Open Hote
☐ Gravel Packed Method used Artesian flow WATER LEVEL: Static food 370 It. below land surface ST mer If Gravet Packed give interval...from Map on 31-56-78 Registered Drifter Trained) 5) DRILLING METHOD (Check): Cable Tool Mud Rosary Aur Hammer ∐ Pump Block No. 1891 Survey Name POURED Straught Walt Stephingille .Tex. 76401 With Example CEMENTING DATA (State) Of Friends For TOWN and THY-81 Decarate er Driven DBored Datted 400 mm 450 Teem Water Well Drillers Board P. O. Box 13087 Austin, Texas 78711 26401 Date From To 400 Serring Ift. □ Cylinder ☐ Estimated 10-29-83 150 5

Please attach electric log, chemical analysis, and other pertinent information, if available

DEPARTMENT OF WATER RESOURCES COPY



Send original copy by cartified mail to the formation of the copy Please attach electric log, chemical analysis, and other pertisent information, if available. Static level 300 7) COMPLETION (Check): North 15 035 1) OWNER:

Person baving well irilled

O Now Well Despending District Loci Depth to pump bowls, cylinder, jet, atc. Secalgie value Arces(an pressure Under remed Recorditioning Locate by sketch sap showing landsarks, could, crecks, history masher, ecc.\* (Use reverse side if necostary) 20 Plugging 125 Gravel packed ft. below land suctace BOXEC lbs. par square inch Open Hole eby certify that this well was drilled by me (or under my supervision) and that and all of the statements bereis and true to the best of my knowledge and belief W666 OTHER SWIFF 336 4) PROPOSED USE (Check): Domestic industrial Date Date 4-25-74 freigation Other sents sade from HAVE WELL SERVE Tage Wall TEPHP DVILL (inches) 12) WATER QUALITY:
Has a chemical analysis made? Type: 01d (inches) Dowell Type of water? Old any strata contain undesirable water? Compensature of vacor YLeld: S2571 TESS Perforated Ceseased from Arrestan flow Was a group test made? Baller test Man with Give legal location with distances and directions from adjacent sections or survey lines. (NAY NEY 2NS YES DE BEEFERD Abstract So. Other Municipal \_ft.above ground level. (Street or RFD) atreasien Com STERBANIULE S) TYPE OF WELL ( Cable Sections 2 ft. drawama after 3 hes ã 1 0 depth of strata fc. Data stilled U-20-9/ Кед To (ft.) L(tr. 10) からは League 200000 If yes, by whom? Plastic demident after the Will yet only yet in 19. 31-47. 30 located on map / 5 11C e 60 Yes. 3 Borred Oches Size Snc

\*Additional instructions on reverse side.

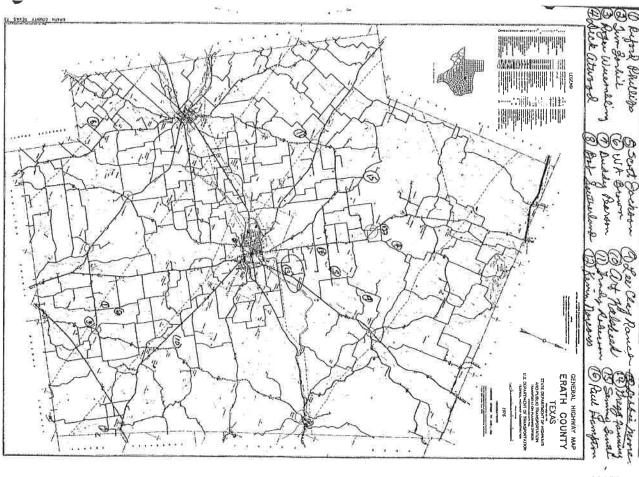
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State of Texas

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(7,71)	Deprived Surface State Installed. [Rule 287.44(2)(A)] Cubins Adaptive Used. [Rule 287.44(2)(B)] Deprived Alternative Procedure Used. [Rule 287.71]	1992 Octobra Adaptive Surface	MAY 0.5 1992 Charles and a second of the control of	14) WELL TESTS:  Type Tase:   D Pump   A Reaver   Tield:   A Committee
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cd):	5) DRULLING METHOD (Check):  The four Rosay C & Hammer  Att Rosay C Cable Tool	٥	PROPOSED USE (Chacatta Undorlox Chingasian O Test Well Chingasian Undoctor	TYPE OF WORK (Check):  China Wall Desponing  Reconditioning Pagging
	Suway Name	Abstract No.	Townsup	Socion Jo.  Dispose and disection from two interneuting section or navey lines  DISECTION OF THE PROPERTY OF T
ly the well on an official	nes, or he must locate and identi	niaesecting section or survey to form.	with distance and direction from two is way Map and ettach the arap to this	Didder must campless the legal description below with distances and direction from the insensocing section or survey lines, or his must locate and identify the well on an offices. OLUMPAY or Hall Scale County General Highmay Map and stated the maps of idem.
Equipo (20)	con ram Steph	(NE, SW, ort.)	3/2 ADDRESS	2) LOCATION WELL (Name)
P.O. Box 13687  Austin, Fexas 78711	3778		*	Mage Nos
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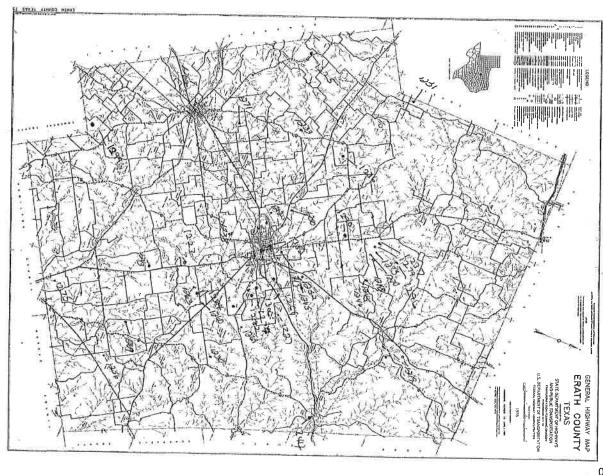


TEXAS

WWD-012 (Rev.01-28-87)

TEXAS WATER COMMISSION COPY

Wall No. 13 July 47-8	(Registered Driller Trained) For Well		ertinent information, if av	함	se attach electric log, che
16401	(Statu)		(Signed)	Di S	(Signed) May
	1891	Sel U Co LNC. Water Wall Onlier's License No.	Sed of the	Mell Well	
e true to the best of my pletion and repubmittel.	of the statements herein or (4) being returned for com	ion) and that each and all ru 12 will result in the log	me (ar under my supervisi	I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein and true to the best of my knowledge and belief. I understand that failure to complete immed through the failure to complete immed through the failure to completion and reademines.	I here by certify it knowledge and be
Wetted Destinated drawdown after hrs.	□ Pumo □ Bailer □ gam with □ ft. c	14) WELL TESTS: TypeText: Yield:	ntained undesirable	Old you knowlingly sentature any strata which consisted undesticate water?   Who submit 'REPORT OF UNDESTRABLE WATER"  Type of water?   Was a chemical analysis meda?   Yes	Did you knowingly penetrate a water? The Paylo If yes, submit "REPORT OF U Type of water? Was a chemical analysis made?
ia Cylinder	Trype PUMP:  Trypine Diet Submerbbe  Other  Depth to pump bowls, cylinder, ict, etc.	T3) TYPE PUMP:  Turbine (  Other  Depth to pump boy		(Uze roverse side    necessary)	וט אמדבר סטמנודץ:
Depth	iype	14 PACKERO	TOAS WHITER COMMISSION	ibas wa	
00	380_fi. below land surface	Statio level	SEP 0.6 1988	UE) SEP	
9.44(c)} Um 319.71]	SURFACE COMPLETION   Specified Surface Stab Installed [Rule 319,44(c)]   Pithess Adaptat Used [Rule 319,44(d)]   Approved Alternative Procedure Used [Rule 319,71]	10) SURFACE COMPLETION  Specified Surface Stab In  Pittess Adapter Used [Ri  Approved Alternative Pr		77.76	
No. of Sacks Used &	DUR WELL	Method used POUR		Red May	
	CEMENTING DATA [Rule 219,44(b)]	9) CEMENTING DA		Charl	350 - 380 380 - 420 360 - 420
Setting III Gage Costing From To Screen  O #66 School	Scett, Plastic, etc. Screen May, if commercial Commercial	Dia New Steel	Shore	Sapaly Clay Shall & James to	
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	raight Wall ther	<b>20</b> 0 0	Sinders 446.0	11 19 87 Dia. (m.)	Illing:
ITHOD (Check): Driven  DAir Hammer Directed Decree  Cobie Tool Dother	` <u>8</u>	Ajdding	PROPOSED USE (Check):  Demetric □ Industrial □ Monitor  Imigation □ Test Well □ Injection	4) PROPOSE	3 0
Townthip	Section No. Block No. Township  Section No. Survey Name  Description and direction from two intersecting section as survey lines  Section and direction from two intersecting section as survey lines  Section and Section 1	Section No	14	Dritter must complete the legal description to the right width statement and delection from their increasing section to the transfer and delection from their increasing section of the transfer and delection and d	Drifter must complete by with distance and direct ition or to way lines, or it, well on an official Chare General Highway Mgo in
S/11/1/10 (TOWN)	Attaphomini	To see were	Assirta	Little Transport	D COUNTY ELATA
Taxas Water Well Dellart Spard P. O. Sox 13087 Austin, Texas 78711	on Reverse Side	State of Texas WATER WELL REPORT NER: Confidentially Privilege Notice	State of Texas WATER WELL REPORT ATTENTION OWNER: Confidentially Privilege Nation on Reviews Side		Please are black ink, Sand or open copy by contribed mail to the Txxx Water Commission P.O. Box 13087 Austin, Texas 78711



fond original copy by restricted mail to the least water Davidament Stated w. O. Box 13087 STEER SO NOLLYCOTICE 1)OGNER:
Person having well drilled Locate by sketch map showing landmarks, roads, creeks, hiway number, erc.\* (Use reverse side if necessary) 74-14-18 major Map on back Erath H.L.Gabhart WATER WELL REPORT State of Texas N direction from Address (Street or 820) Address P.O.Box 388,Stephenville,Tx. (Street of EDD) (State (WHY NEY SAY SEY) OF SCOTTON Abstract 35. Stephenville

(6157)

(State)

Give lagal location with distances and directions from adjustme accepta of survey lines. Survey League

All measurements made from 4)PROPOSED USE (Check): Test Well Depth of completed well 0 9) Casing: Type: 01d Other Municipal ft.above ground level. New X Steel Entary X Driven Cable ft. Date drilled Plastic X Ochar 15-45 Pared Sug 12/20/75

Diameter of hold-3/4

\_\_in. Depth drilled\_

80

New Hell X Deepening

Reconditioning

Surganta

Irrigation

10) SCREEN: A 52 Comented from 0 - 3 From (ft. paring To (Et.)

ī

80 54 15

80

Sand

Sandy top soil Clay and rock

formation manerial

Sand amd sandy clay

YLeld: WELL TESTS: Bailer test Was a pump cest made? Spo steh Spa with Yes fr.drawdown after Ec. drawdown after hes-No. If yes, by whom?

7) COMPLETION (Check)

reverse side if necessary)

(inches)

From (fc.

Section

To (ft.)

Slotted

Perforated

Straight wall

Gravel packed

Other

Open Kole

Static Level:

ft, below land surface Date

lbs. per square inch Dace

Artesian pressure

Depth to pump bowls, cylinder, jet, etc.

12) WATER QUALITY:
Was a chemical analysis made? Did any strata contain undesirable water? Arrestan flow Temperature of water Yes ĭ 8

C.W.Wolf (Type or Print) P.O. Box I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the bast of my knowledge and belief. Stephenville Water Well Drillers Registration No. Type of water? Texas depch of strace\_

Please attach electric log, chemical analysis, and other pertinent information, if available

WOLF DRILLING
(Company Name)

\*Additional instructions on reverse side.

2) LOCATION OF WELL:

For TADB use only

Well No. 31 - 4/3 - 8/2

Located So may 1/2 S

Accessypt: 22

The skotch showing the well location must be as accurace as possible, showing landmarks, in sufficient detail so that the well may be plotted on a General Highway Map of the county in which the well is located.

Reference points from which distances are measured and disperions given should be of a permanent meane (e.g. highway intersections, center of fromes, fiver and creek bridges, railroad crossings). The distance and disperion from the nearest room should altwys be indicated.

Information furnished in Section 2) of the INOSE-GK-53 is very important. Valess the well can be accurately located on a cap the value of the other data concated in the Report is greatly reduced. When giving a legal description include a sketch showing location of the well within the described area, e.g. survey abstract

DEVELOPMENT BOARD 3: LE 3: LE 3: EELT RAILROAD 1281 377 JUN-8 1976 140

LAJAN 26 1976

I haveby certify that this way was drilled by me (tunderstand har faulte (prographie items 1 thru COMPANY NAME (1777) ADDRESS 1330 15) WATER QUALITY: 14) WELL TESTS: 13) ТҮРЕРИМР 20-50 From (ft.) Ŋ ATTENTION DWNER: Confidentiality Privilege Notice on on reverse side of Well Owner's copy (pink) 8-40 21-0 TYPE OF WORK (Check):

New Well Despening

Reconditioning Plugging 1-18 Started 8-13 1997 Completed 8-14 1997 Yes No Ilyan submit "REPORTOF UNDESIRABLE WATER"
Type of water? Did you knowingly penetrate any strata which contained undesirable constituents? ☐ Turoline ☐ Jat Type lest: Pump Yield: Pom with -10 Was a chemical analysis made? Depth to pump bowls, cylinder, jet, etc., WELL LOG: OWNER HUM DACKUS ADDRESS WELL: Comme To (ft.) TER LER Police Stale
Some Stale
Course and of their Owners copy, it reconstants Quick Sand Sand Park Red Bes the Strake Submersible yard Description and color of formation material Depth of strala Please attach electric log, chemical analysis, and other portinent information, if available e (exunder my superspice) and that each and all of the salements herein are true to the best of my knowledge and belief in Ministry in the best of my counted for completion and resoluting.

WELL DRILLER'S LICENSE NO. 1252 105 Cylinder 5 55 White - TNRCC DIAMETER OF HOLE RE & Stephenville To Yellow - DRILLER State of Texas
WELL REPORT Suphervolle ADDRESS RE 4 7) DRILLING METHOD (Check): Driven
| Air Rolary | Wald Squary | Bored
| Air Hammer | Cable Tool | Jetted
| Doner Dia. or P 199 Memod di septic system felè lines or orber concentrated corramination M. n. Mineritarised 1 Stale west 94/65 Coment S) CEMENTING DATA (Fluid 339, 44(1))
Cementation 35 It to 0 It. No. of sacks used 5 The Maria 12) PACKERS: 10) SURFACE COMPLETION CASING, BLANK PIPE, AND WELL SCREEN DATA: 8) Borehole Completion (Check): 

Open Hole . C. Specified Surface State installed: (Rule 338.44(2)(A))
Specified Steel Steeve Installed: (Rule 338.44(3)(A))
Pitless Adapter Used: (Rule 338.44(3)(b))
Approved Alternative Procedure Used (Rule 338.71) Pink - WELL OWNER Staet, Plastic, etc.
Pert., Stotted, etc.
Screye Mig., if commercial X MA Copheniuse TX 76401 The GRID ! (Registered Driller Trainee) Texas Water Well Drillers Advisory Council
MC 177
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530 16401 Турв 60 115: 5/33 Date Date From 1 to 35 Setting (ft.) ☐ Straight Wall 31-47-8 8-14-67 rg(ft.) Gage Casting To Screen Dapth (20)

TOLE FORM JOHN WID	Address City	Company or individual's Name (type or print)	TYES 19 NO If yes, 5d you should a RECORT FOR UNDESTRABLE WATER Type of ware.  Dopth of Street  Dopth of Street  Was a chemical analysis made: 11 Yes; 12 No	lo) Water Quality	Destrict pump bowls or both ris est. 1.  15) Water Test Type set [7] Glade [3] London M Estimated Vide 25, gen with 5, ft development 1/4 in	14) Type Pump 14) Type Pump 10 Tumbes	1 1		(Use reverse side of Well Owner's copy, If pocessary)	500 clay	410 490 sand tan	400	160 280 shale	91 160 clav	46			Completed 9 / 27 / 00 7-7/8 500	Fram (A)	If Public Supply well, were plans submitted	4) Proposed Use (check) 4 Mon	_	Pyrical Address 4 mi N of Stepheny	SOLID ROCK CHOICH F.O. BOX 1919	Address 15+6	A. WELL BENTIFICATION AND LOCATION BATA.	Conferentially Privilege Notice P.O. Start of F. Amer. West Design Prints Institute Program On more tide of owner's copy. P.O. Start of F. Amer. Prints (\$15),042-7800 FAX (\$12),46  Email address: Walts. Walts (\$15),042-7800 FAX (\$12),46  WELL REPORT
Special Approvates Dans	State Zip			12) Packers Type Depth	11) Water Level State level 410 & below Date 9 , 27 , 00 Arcsian Flow	U Specified Series: Such Installed  3 Specified Series: Shore Installed  1 Prices Adapter Used  1 Approved Alternative Procedure Used	10) Surface Completion	Distance to regule system field to other concernment consumination NA . 9	to 190 h sof sats and				N Plastic 0 500	Dia Or Port Stoned on Caling (in) Used Screen Mile, if commercial From To Screen		If General Postsod give the interval from #110	de Completion of Completion	Chie Hammer Chie Cook Cook Cook	Ale Street, Mad Street,	2 C 2 C	Deverage Comments Soil Bering AD Domestic 5)	ong.	Cay State Zp	VI ATTACABLE	Some Z	AND LOCATION BATA.	and filed v and owner upon cann

sand original copy by cardifad ratum receipt requested r.\_\_ .o: TNRCC, MC 177, P.O. Box 13987, Ausdn, TX 78711-2087

3) Type of Work

New Well Reconditionin

Replacement Despening Did you kapowingly periodrate a strata which contain undestrable constituents.

Ores: Sa. NO If yes, did you submits BEPORT OF CNDESRABLE WATER Type of waiting Popth of Strata.

Was a thermical analysis made. Ores. 29 No. 370 330 Company or individual's Name (type or print) Dowell 14) Type Pump 270 6) Drilling Date Kello Castocens 16) Water Quality 13) Plugged
Coung left in well: HOTHER TO BE A SECOND OF THE S 3) WELLING CHARGE TO A STATE OF THE STATE OF Attention Owner: Confidentiality Privilege Notice on reverse side of owner's copy. rom (ft) ompleted 13/18 0 Started 0 12116 375-410 33.50 2005 200 240 370 To (ft) To (fi) From (ft) ☐ Well plugged within 48 hours 6 Reconditioning à 100 Description and color of formation material Rad Cay Too Blu Oay REJ Cles 🗷 Submersible 🗀 Cylinder Tu ... Department of License and Regula... in
Water Well DifferPump Insteller Program
P.O. Box 12157 Austin, Texas 73711 (5)714637-880 FAX (5)721463-8615 Dia.(in) CR 176 Physical Address H Diameter of Hole Dand Email address: water.well@license.state.tx.us From (ft) 0 of mesting. Toll free (800)803-9202 To (ft) 3 City Step he Duille 2 Stephenville 10) Surface Completion
3-Specified Surface Slab Installed
Deposition Surface Sleeve Installed
Deposition Surface Sleeve Installed
Deposition Surface Sleeve Installed
Deposition Surface Sleeve Installed 000 SCRULC 8) Borehole Completion □ Open Hole □ Straight Wall □ Under-reamed ③ Gravel Packed □ Other If Gravel Packed □ Other from 100 0 ft in 470 ft 11) Water Lovel
State level of 6.3 helpin Date / 2, 7 of SEO 4
Arcsian Flow Nethod Used. Post A. C. Comenting By Date 62.2.11 & De 11 Sent at C. C. Distance to septic system field or other concentrated contamination. In Method of writinations of above distance. 9) Cementing Data Cementing from 1 **E P** 12) Packers Casing, Blank Pipe, and Well Screen Data Used New 200 Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfe., if commercial A PERSON ا جرخر 8 ع State 200 F Grid# K FEB 1 4 2001 This form must be completed and filed with the department and owner within 50 days upon completion of the well. 188 7-00-12 # of sacks aved of the Ŀ From 0 940 Setting (ft) Zip 7640 Zip Joh 24. 0 Į, 3

Send original copy by certified mail to: TNRCC, P.O. Bc. ADDRESS COMPANY NAME Driftle Diamond Drilling I hereby cartily that this well was crilled by me (or under my supervision) and that each and all of the statements herein are true to the bast of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the tog(s) being returned for completion and resubmittal. 15) WATER QUALITY: 14) WELL TESTS: 13) TYPE PUMP: ATTENTION OWNER: Confidentiality
Physioge Notice on Reverse Side 200 From (ft.) . To (ft.) □ Other Started 4/19 OWNER HARVEY WILLIAMS ☐ Yes 図 No If yes, submit "REPORT OF UNDESIRABLE WATER" Did you knowingly penetrate any strata which contained undesirable constituents? Type test Pump ☐ Turbine MELT FOC: TYPE OF WORK (Check): County Frach Type of water? Depth to pump bowls, cylinder, jet, etc., 334 ft. New Well Was a chemical analysis made? ☐ Reconditioning Completed 4/19. Je □ 250 172 gpm with 1881 I S NOT With the second of the second o 19 95 □ Pługging Deepening Submersible TEXONRAGATURNE TO SECONSERVATION CO..... min 25 \_19<u>\_95</u> Cl sy Sand Clay I imo Clay 54210 Red Clay (Street or RFD) Tan Sand Description and color of formation material ☐ Yes ☐ Jetted 图 Estimated

R. drawdown after 1/2 hrs. Depth of strate 4) PROPOSED USE (Check): 

Monitor 

Environmental Soil Boring XZ Domestic 7-7/8 Surface 350 ₽ | | If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No ☐ Industrial ☐ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell DIAMETER OF HOLE DATESTA Similas north of Stephenville TX (Smeet or RFD) (Can) (Can) J87, Auglin, TX 78711-3087 State of Texas WELL REPORT ADDRESS Ft. 3 Box 88, Stephenv111e, TX 76401 (Staie) 11) WATERLEVEL: 10) SURFACE COMPLETION Granbury (Clay) 12) PACKERS: N 38 8) Borehole Completion (Check): 

Open Hole 7) DRILLING METHOD (Check): Driven

(2) Air Robary Mud Robary Bored

(3) Air Hammer Cable Tool Jetted

(4) Other CASING, BLANK PIPE, AND WELL SCREEN DATA: (Signed) WELL DRILLER'S LICENSE NO. ☐ Piless Adapter Used [Rule 338.44(3)(b)]
☐ Approved Alternative Procedure Used [Rule 338.71] ExSpecified Steel Sleeve Installed [Rule 338.44(3)(A)] Specified Surface Slab Installed [Rule 338.44(2)(A)] Distance to septic system field lines N/A to Mathod of verification of above distance N/A If Gravel Packed give interval ... from 150 Artasian Ilow Comented by Company Underreamed S Gravel Packed Steel, Plastic, etc. Perf., Slotted, etc. Screen Mig., il commercial Plastic ft. below land surface Registered Driller Trainee) gom Texas Wester West Drillers Advisory Council
P.O. Box 13087
Austr. TX 78711-3087
512-371-5299 2682 Please use black ink Other. Туре E I STATE WELL # 31-47-8 No. of sacks used From Date \_t to \_\_350 Satting (ft.) Straight Wall 4/19/95 350 70 Depth 76048 ㅂ (d<sub>22</sub>)

00198

VRCC-0199 (Rev. 09-01-93)

FDLR FORM 5001 WWD

White - TDLR

Yellow - Owner

Pink - Driller/Pump Installer

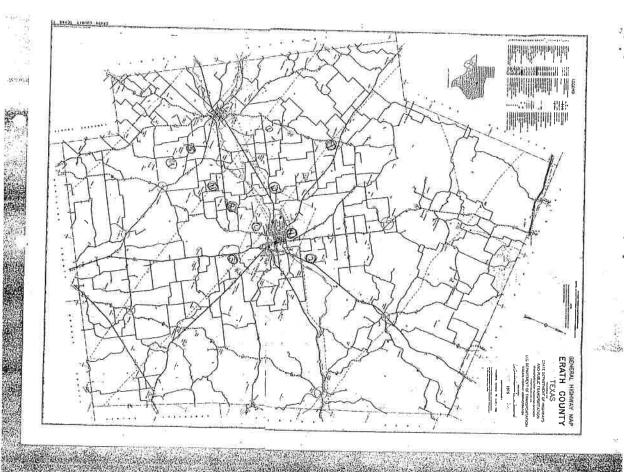
TNHCC COPY

lease attach electric log, chemical analysis, and other pertinent informe

tion, if available

Flease attach electric log, chemical analysis, and other perfinent information, if available ADDRESS COMPANY NAME Wolf Drilling Co. 6) WELL LOG Reconditioning Dillier matt complete the legal decreasion to the right with distance and direction I never the order to a loo or parmy lines, or he matt locate and dentify this with on an official Quarter or fattl State Tives Davinty General Highway Map and states the major to said signifin owner Mr. Terry Sided enginet copy by partitive much to the Paus Department of Water Resources P. O. Box 13087 Austin, Toxas 28711 WATER QUALITY: Date drilled TYPE OF WORK (Check): County Erath 9-15-86 □ Plagging Red Clay Blue Sahle Brown sandy clay Sand and Gravel RED CLAY Sandy clay Blue shale , rock layers Blue clay and rock lyrs. Blue shale clay , rock lyrs. Red Clay Top soil TEXAS WATER COMMISSION <u>EGE1 NED</u> Antoine I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief SEP 14 1987 41 PROPOSED USE (Check): Q Downestic □ Industrial □ Public Supply
 Irrigation □ Test Well □ Other \_\_\_\_\_\_\_ ATTENTION OWNER: Confidenciality Privilege Natice on Revorse Side Plantice To III. HWY 281 State of Texas
WATER WELL REPORT Stephenville C) See attached map. Water Well Driller's License No. Legal Distance and direction from two intersecting section or survey lines (Signed) Abstruct No. 101 PACKERS: 12 WELL TESTS: IT! TYPE PUMP: 5 D (NE,SW. DIC.) O Type Test: 8) CASING, BLANK PIPE, AND WELL SCREEN DATA: 7) Ocher. ☐ Furbine Depth to pump bowls, cylinder 1821 Overhill Open Hole
Gravel Packed Method used Artesian flow, WATER LEVEL: Static level 225 BOREHOLE COMPLETION: If Gravel Packed give interval ... from Registered Driller Traingel 51 DRILLING METHOD (Check): Torch slotted □ Air Rotary □ Cable Tool □ Jetted DMud Rotary ☐ Air Hammer Steel Street, Plastic, etc. Perf., Statted, etc. Screen Myf., if comm □ Jump П й Pumped Wolf Drilling Co. 31-54-7 ock No. Survey Name direction from aselms pool molad arriace 559 ☐ Straight Wall TXS 0 & E Туре -gpm CEMENTING DATA Stephenville Tx. 76401 ∑ Submersible Stephenville Tx. Tannshis Well No. 37 enty 7-8 Detted □ Driven Texas Water Well Drillers Board P. O. Box 13087 Austin, Texas 78711 76401 0--- 405 365 405 Setting (ft.) 365 □ Underreamed □ Bored □ Cylinder Dispirated after 3 his. 9-15-86 (5:5)

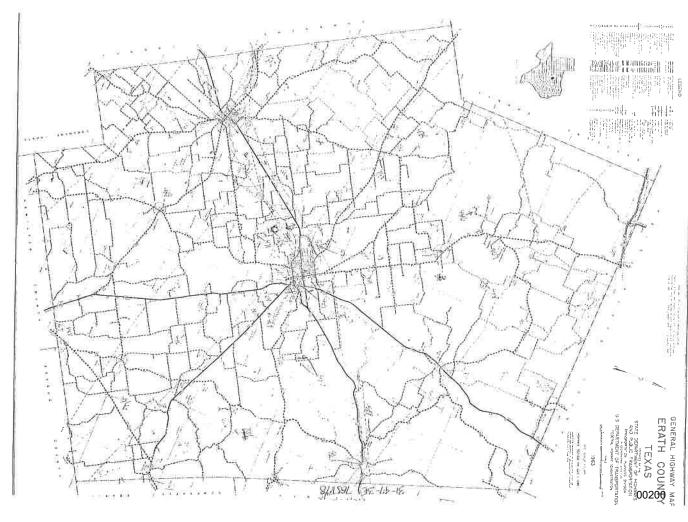
DEPARTMENT OF WATER RESOURCES COPY



	Well Service Inc.	_Dowell_Well	Well Drilley	(Water
76401 (210)	Texas isum	Stephenyille	Mittell Stat	ADDRESS P.O. Box 558
	tion No. 1268	Water Well Drillers Registration		W.D.D.
	er my supervision) and that of my knowledge and belief.	illed by me (or und are true to the best	I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.	
□ Jetted □ Eptimated drawdown after 🕰 hrs.	Drump Bayler	12 WELLTESTS:  Type Test:  Yield:	Strate which contained undesirable DESIRABLE WATER"  Depth of their No	Did you knowingly preference any stata which contained undesirable water?   Yet X No.  If yet, abonit, "REPORT OF UNDESIRABLE WATER."  Type of water, Open of struct.  Was a chemical analysis made?   Yet X No.
ft	Depth to pump bowls, cylinder, jet, etc.,	Depth to	(Use reverse side if necessary)	(Use reverse at
□ cylinder	Bump:	11) TYPE PUMP:	DEPT. OF WATER RESOURCES	WATE
			AUG 25 1982	, u
oth	Type Dooth	10) PACKERS:	Waniaga Bana	0 8
Date	Static level fulbelow land surface Artesian flow			
v1ce Inc.	Cemented by DOME 11 WAT SATTICE (Company or Individual)	Cement		
. 41.	Method used Poured ft. io	Cement		
Þ	CEMENTING DATA			
			(A) Application (A)	A PARTY AND A PART
			A P	- P . H
400 340 156	Stocker Stocker		Stand & Stand	10 - CO TO LO
Setting (ft.) Gage Casing From To Screen	Steef, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	10 3		
N DATA:	CASING, BLANK PIPE, AND WELL SCREEN DATA:	B) CASI	Description and color of formation material	
Underreamed	rraight Wall ther		Surface (1000)	Date drilled
☐ Jetted ☐ Other	BOREHOLE COMPLETION:	7)	☐ Irrigation ☐ Test Well  DIAMETER OF HOL	ning
	METHOD (Check):		4) PROPOSED USE (Ch	3) TYPE OF WORK (Check):
ey lines	action or su	Distance and direction	<b>5</b>	Well on an official Charter or Holf-S. General Highway Mao and attach the
No.	Block NoTownship	Section No.		Deliler must complete the legal description to the right with distance and direction from two intersecting section from two intersecting section or the must focust and identify the \$423 to more sections.
1942 Sexpondent	direction from	In NE. SW., 912.	(Name) Address	1) OWNER T.E.Sutton
For TDWR use only Well No. 31 42 - \$1  Located an map YC S  Received: C-K-S.		State of Texas WATER WELL REPORT R: Confidentiality Privilege No	ATTENTION OWNE	Send original copy by zaruffed mail to the Texas Department of Water Resources P. O. Box 13087 Aurile, Texas 78711
	•			(Aluber)

TDWR-0392 (Rev. 1-12-73)

DEPARTMENT OF WATER RESOURCES COPY



COMPANY MAME: ASSOCIATED SERVICES  ADDRESS: P.O. BOX 16  I MERCEY CERTIFY THAT THIS MELL WAS DOPILLED BY M ARE TRUE TO THE BEST OF MY SOUNDLEDGE AND BELTER LOB(S) BEING RETURNED THE COMPLETED AND ASSOCIATED (Signed)  (Signed)  LITTUEED WATER WELL DEGLETA.	IS ) MATER CORP.  15) MATER CORLITY:  179E OF WATER:  NO STRAIA OF UNDESTRABLE WATER PERFTRATED	GEOLOGICAL DESCRIPTION: FROM TO DESCRIPTION: O 10 RED CLAY 10 AED CLAY 11 AED CLAY 12 AED CLAY 13 AED CLAY 13 AED CLAY 14 AED CLAY 15 AED CLAY 16 AED CLAY 17 AED CLAY 18 AED CLAY 18 AED CLAY 19 AED CLAY 19 AED CLAY 11 AED CLAY 11 AED CLAY 12 AED CLAY 13 AED CLAY 14 AED CLAY 15 AED CLAY 16 AED CLAY 17 AED CLAY 18 AED CLAY 19 AED CLAY 19 AED CLAY 19 AED CLAY 10 AED CLAY 11 AED CLAY 12 AED CLAY 12 AED CLAY 13 AED CLAY 14 AED CLAY 15 AED CLAY 16 AED CLAY 16 AED CLAY 17 AED CLAY 18 AED	ATTENTON PURER: CONFIDENCIS)  Priviled Notice on Reverse Side  11 DURER: WHISERIT, IDECSANTO PRODRA DODRESS: 2) ADDRESS OF WELL: COUNTY: ERBATH COUNTY: STRATE OF HORIZ COUNTY: STRATED: 07/08/98 CONFLETE: 07/08/98 CONFLETE: 07/08/98 CASITS, SLANC DOTE, AND WELL SCREEN DATA: DIA NEW/USED DESCRIPTION  1 NEW/USED DESCRIPTION COUNTY: STRATE OF HORIZ CONFLETE: 07/08/98 CASITS, SLANC DOTE, AND WELL SCREEN DATA: DIA NEW/USED DESCRIPTION COUNTY: STRATE OF HORIZ CONFLETE: 07/08/98 CASITS, SLANC DESCRIPTION CONFLETE: 07/08/98 CASITS, CONFLETE
COMPANY MANE: ASSOCIATED SERVICES  WATER WELL OF THE STATE: IX ZEP CODE: 76401   COATED ON THA STATE ONLY SHORESS: P.O. BOX IS  RICATED OF THE STATE HALL NO.   COATED ON THA STATE ON THA STATE OF THE	IS) JELD: 1557: 2109- 2109- 21ELD: 7 GOM WITH UNKN FT ORAWDOWN AFTER 24 MRS SEPTH OF STRATA: BAFED BATED BATED	CEMENTING DATA:  COMPARED TO A FI. TO SACKS Used  O FI. TO SO FI. 3  300 FI. TO SO FI. 3  ABEDING Used: CEMENT-POURED  Command by: 66%  STRIC LEVEL: 330 FI. DATE: 07/07/98  ABIESTAN FLOW: 65% DATE: 0EPTH  11) PACKESS: TYPE DEPTH  12) PACKESS: TYPE DEPTH	STATE OF TEXAS  WATER WELL REPORT  CITY: LIPAN STATE: IN TIP: 76462-  31-47-8  11-47-8  TY 75401-  4) PRODICE SHOUSE: DONESTIC  4) PRODICE SHOUSE: DONESTIC  16 PRODICE SHOW HELD:  17 NOTICLING WETHOD:  30 BOREHALL PAIRED  STATE: IN TIP: 76462-  4) PRODICE SHOW HELD:  18 BOREHALL PAIRED  STATE: IN TIP: 76462-  30 BOREHALL PAIRED  FROM TO GASE CASING SCREEN  0 398 SCH40  398 458 SCH40

38.38 Please arranh electric log, chemical analysis, and other pertineer information, if available, when the setting that the sell one drilled by se (or under ay supervision) and that successful to the best of my handledge and belief.

When the setting of frient)

Water Well brillers Replaceation to 1257. 8) KATER LEVEL! 2 Ft. below land surface Date 5.2374 MORESS 1330 W. MC Me! Sand original copy by certified mail to the Toma Water Development Board P. D. Box 13087 Austin, Texas 78711 6) HELL LOG: Diameter of hole (Use reverse side if oucessary) CHART SERVER Person having well stilled C. W. Renner. below land surface. Depth to pump books, cylinder, jot, etc.,\_\_ Straight wall Gravel packed Artesian pressure JYTE OF MORE (Check): Deepening Recondicioning Locate by sketch map showing landmarks, These creaks, 108. Wa 6 lbs. per square inch Dace THE BELLEY Open Hole in. Depth drilled //S \_ft. Depth of completed well // 5 formstick material All measurements made from Domestic Industrial 201 Terigacion Other Stephenville 1 WATER WELL REPORT State of Texas Tost Well 12) WATER QUALITY:
Has a chemical analysis made? ISESS THE (1) 10) SCHEEK! Type: Old 12 (timeter) Comperature of water YLeld: Type of water? Arcesian flow Bailer rest\_ Perforated Old any strata contain undestrable water? Was a pump test made? Comented from Address R45 N direction from Statt Agravedly Address (Screet or 250) Abstract No. Give legal location with distances and directions from adjacent sections or survey lines. Other (NW NET SHE SEE) of Section Municipal \_ft.above ground level. Spm with\_ gpm with From (fs.) 83 From (ft.) To (ft.) 5) TYPE OF WELL (Check): Rotary Drives 0 Cable Setting ĭ Sccel Stephenoide Toxas ING 74 depth of strata No If yes, by whom? Et. Date delled 5-2474 ft.drawdown after hrs. 115 fc. drawdown after hrs. Ков 25, 50 Slocted Survey League Jetted Plastic (C15y) Por 1935 use only 421 No. 31 - 47 - 2 H
Located on may 1/0 c
Rectlyed: 7 of 1/0 c Botted Other 2ng 83 (State)

\*Additional instructions on reverse side.

POSTANDA

\*Additional fustructions on reverse side.

2) LOCATION OF WELL:

The sketch shortng the well location must be as accurate as possible, shortng landmarks, in miffelmat detail so that the well any be plotted on a General Highway Map of the commy is which the well is located.

Addresses polote from which distances are measured and discertions given should be of a permaine saure (e.g. highway intersections, conter of teams, river and ereak bridges, rallyoud crossings). The distance and discertion from the nearest tom should always be indicated.

Information furnished to Section 2) of the NUNE-GM-53 is wery important. Unless the well can be accurately located on a map the value of the other data contained in the Raport is greatly reduced.

STOPHENVILE

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Address Highhar, Howy) Signature of the street of the stre		Well Service Two	· Dowell	(Signed) 2011 ( ) Dowell
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scale of the series and series an		1	Type of water?	-4
scale of the state	3	rable vacor?	Did any strata con	
ge will defilled Total Shake Asserted Expenses and the state of the st	)#		12) WATER QUALITY:	ow land surface.
ge will delited Total Shove Autrentification of Secretary  Scharge Autrentification of Secretary  Scharge Autrentification of Secretary  Secretary  Scharge Autrentification of Secretary  Secretary  Septiminal Leodoscies, cools, creates, secretary	176	THE STATE OF THE S		, cylinder, jer, erc.,
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Authority Services of Services	s by whom?	Yes . Ко	Yas a pump test a	
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TEXAS WATER

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7) COMPLETION (Check); Seattle lavel Cho Et. below land suffice Duce/2-7-28 200 00 -320 Depth to pump bowls, cylinder, jet, etc., 500 Artesian pressure Scraight vall 30-10 -300 220 200 tog, chemical maslysis, and other pertinent information, if available. es on reverse side. Gravel packou lbs. per square inch Dare/2-7-75 I hereby certify that this well was drilled by me (or under my experision) and that gurk and all of the extrements herein are tron to the best of my insuladay and belief.

Oncer well Drillers Registration No. 12.68 bdil Driller) Open Hole Commacion and color of The Det 100 scene Other tagherun lle 12) WATER QUALITY:
Was a chemical analysis made? II) WELL TESTS. Type: Old (inches) 40 Cemented From Type of water? Did any scrata contain undesirable water? Temperature of water Bailer test 20 gpm with 5 ft. drawdown after YLeld: Perforated Artesian flow Was a pump test made? from (fft. From (ft.) Souting to (to.) Lead Sexilice Inc 10/05 76%o Yes Setting depth of strate. Yes To (fc.) M If yes, by who £5, 60 and the Plastic Yes Ř 60

Please attach electric log, chemical analysis, and other pertinent information, if available

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(Lystraed Well Driller)	
(Signed)	10.11e, 10/25 76.401
をつる。な	Delliers Registration No. 1268
understand that taken (Campany) lients 1 that 15 (Alvesuld in the logic) being relumed for competition and reactionities.  COMPANY NAME 111111111111111111111111111111111111	or consists and property of the property of the period of article.  Our under my supervision) and the period of article and the period of the
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lyes, submit "REPORT OF UNDESIRABLE WATER" 12) PACKERS:	supersture of white.
15) WATER QUALITY: Did you terowingly perpendite any strata which contained undestrable Affestin flow	O spm with S Ft. drawdown after 1
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9) CEMENTING DATA (FILE STELLAR))  Communication — D Dit to	
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Children W. W. Both 32.	Southway.
7 Hun Juse (1) Used	per Old New Steal Plastic Other mented from S ft. to 60
Setting (IL)	fc.above ground level.
52 De Brasil Marie (Constitution of the bound of the boun	of completed well 320 ft. Date smilled 12-7-7
matteriat 9) Borehole Completion (Check):	Other Cable Jetrod Barad
2010 ATT 3 13 43 6 14 100 413 0000	WESTE (Check):
La Cable Tool	AD REMARK MA. SELY OF SAFETON
DIAN	SLOVE SUPPLY
3) INFE SEATOR (Check):   4) PROPOSED USE (Check):   Ladioling   Buddinamana Soli Baring   Buddinamana   Chemana	Give legal location with discances and directions from adjacent sections or survey lines. Libor traces
Country COUNTRY (State) State of City (City) (State) (City)	1. S.W. Steel Streeting from STEPHENVILLE
ADDRESSER WILL: (Name) (Street or RFD) (City)	AMERICA (Street or AFS) (State)
n owner Windle brekam innere HCR-51 B-6151	(Sirect of NED) / (City) / (Winte)
ATTENTION OWNER: Confidentially State of Texas Texas Wint Well Inflient Advanced Po. Box 1007 1007 1007 1007 1007 1007 1007 100	Marson At 2 Box 3 75 - Deplean 1/0, 18/1/18

Dismeter of this 65 is. Depth drilled 720 ft. Depth of completed well.

All measurements made from

Neconditioning Plugging

4) PROPOSED USE (Chaek): Domesica Industrial

Irrigation

Tesc Well

A SIM 28 | A TOBRESCO

Sand original copy by currified and to the Towns Water Development Soard F. O. Box 13087 Austin, Texas 78711

WATER WELL REPORT

State of Texas

For MB use only Well to 3/- 47-8T Located on may Locate to may Locate to may Locate to may Locate to make the section of the s

Send original copy by cartifold mail to: TNRCC, P.O. Box

.7, Austin, TX 78711-3087

Person having well drilled JOR

Same,

HIM S THEN SO SOUTH

Alles in A. S.K., Sig.) direction from STEPHEN

Locate by sketch map showing landmarks, roads, crocks, hive pumper with a second seconds.

ann PACE

\*Additional intructions on reverse side.
TOWN-0-79

13) WATER QUALITY:
Did you browingly penetrate any streat which contained underlable water? I ore Children of UNDESIRABLE WATER"
Type of water?
Type of water?
Was a chemical analysis made? I ore Children ADDR ESS Send original copy by bertified mail to the Taxos Department of Water Resources P. O. Box 13057 P. O. Box 13057 Austin, Texas 78711 Please a trach electric log, chemical analysis, and other pertinent information, if available. Orlier must complete the usual description to the right with distance and direction from your interesting see both or survey liest, or he must locate and identify the well on an official Charity or left (State Texas County Carera Highway Map and attach the map to this form. 230 - 238 6) WELL LOG: 3) TYPE OF WORK (Check): 21 LOCATION OF WEST AT A 11 OWNER JUNI) 100 1087 010 Date drilled . Reconditioning 29 K-80.8 □ Plugging Deepening [Use reverse side if necessary] Dowell I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief Description and color of formation material DIAMETER OF HOLE
Dia (in.) From (ft.) To (ft.) 4) PROPOSED USE (Check): ☐ Irrigation ☐ Test Well ☐ Other \_\_\_\_\_ BREER Short Shorts MA TEN Surface Blue Char 1 Section No. Block No. Township

Abstract No. Survey Name

Distance and direction from two intersecting section or survey lines See attached map. Map on 31-48-60 Legal description:
 Section No. WATER WELL REPORT Water Wall Grilles Registration No. mile in [N.E. S.W., etc.) State of Texas 5 22 3nd 5th 109 Lad 'Dud Nay 12) WELL TESTS: 11) TYPE PUMP: 10) PACKERS: ☐ Turbin ☐ Jet &bbm
☐ Other \_\_\_\_\_\_\_

Depth to pump bowls, cylinder, jet, etc., Type That 3 nmp 25 nm - Detted Stimated Histor 15 gpm with 20 ft drawdown after 1 hrs. Commence by JEUTO / 1 Wo / Sepurice Land Method used Cemented from B) CASING, BLANK PIPE, AND WELL SCREEN DATA: 7) BOREHOLE COMPLETION: Dentification Other Office of the Interval... From 285 ft. to 335 □ Open Hole Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial OMud Robery O Air Hammer O Driven O Bornd 5) DRILLING METHOD (Check): direction from Туре CEMENTING DATA 1831 C Straight Wall moony Named & Submersible \_# to 284 Depth Stant Zin Hell No. 3 1 - 47 - 87

Located on map 460 " Date 3-26-[Town] S 25 8 Setting (ft.) Cylinder 1 36

DATE DRILLING:  COMPLETED: 09/16/01  DATE: SCREEN PATA:  COMPLETED: 09/16/01  1 NEW PLASTIC, SLOTTED ATT:  COMPLETED: 09/16/01  1 NEW PLASTIC, SLOTTED ATT:  1 SCREEN PATA:  1 O SECRIFICAL SECRIFICAL ATT:  1 O SAND CLAY SAND CLAY SAND CLAY  20 SAND CLAY SAND CLAY SAND CLAY  215 SAND CRAYEL  216 SAND CRAYEL  217 SAND CRAYEL  218 SAND CRAYEL  219 SAND CRAYEL  210 SAND CRAYEL  211 NATE: SAND CRAYEL  212 SAND CRAYEL  213 SAND CRAYEL  214 SAND CRAYEL  215 SAND CRAYEL  216 SAND CRAYEL  217 SAND CRAYEL  218 SAND CRAYEL  219 SAND CRAYEL  210 SAND CRAYEL  211 NATE: SAND CRAYEL  211 NATE: SAND CRAYEL  212 SAND CRAYEL  213 SAND CRAYEL  214 SAND CRAYEL  215 SAND CRAYEL  216 SAND CRAYEL  217 SAND CRAYEL  218 SAND CRAYEL  219 SAND CRAYEL  210 SAND CRAYEL  211 NATE: SAND CRAYEL  211 NATE: SAND CRAYEL  212 SAND CRAYEL  213 SAND CRAYEL  214 SAND CRAYEL  215 SAND CRAYEL  216 SAND CRAYEL  217 SAND CRAYEL  218 SAND CRAYEL  219 SAND CRAYEL  210 SAND CRAYEL  211 NATE: SAND CRAYEL  211 NATE: SAND CRAYEL  212 SAND CRAYEL  213 SAND CRAYEL  214 SAND CRAYEL  215 SAND CRAYEL  216 SAND CRAYEL  217 SAND CRAYEL  218 SAND CRAYEL  219 SAND CRAYEL  210 SAND CRAYEL  211 NATE: SAND CRAYEL  211 NATE: SAND CRAYEL  212 SAND CRAYEL  213 SAND CRAYEL  214 SAND CRAYEL  215 SAND CRAYEL  216 SAND CRAYEL  217 SAND CRAYEL  218 SAND CRAYEL  219 SAND CRAYEL  210 SAND CRAYEL  210 SAND CRAYEL  211 NATE: SAND CRAYEL  211 NATE: SAND CRAYEL  212 SAND CRAYEL  213 SAND CRAYEL  214 SAND CRAYEL  215 SAND CRAYEL  216 SAND CRAYEL  217 SAND CRAYEL  218 SAND CRAYEL  219 SAND CRAYEL
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05/01 DII
DESCRIPTION OF DOCE

DUP

Sand original copy by certified mail to the Texas Water Development I 2. 0. Sox 13087 Austin, Texas 78711 Person having well defilled NEW Wall X Desponding COUNTY OF WELL! Locate by sketth map showing landmarks, roads, creeks, hivay number, ote.\* # 11 -- On Brath Co. Map 722yo on 31-46-60 (Use reverse side if necessary) T.C.Frost Board Erath (Same) Kenneth Miller AVLES AETT SESONE State of Texas North direction from Stephenville.Texas Address Weatherford, Texas Address Rt # 2 , Stephenville, Texas (State)

(0107)

Give legal location with distances and directions adjacent scotlons or survey lines. (MAF NEF 2HS 320 OL 3001120 Abstract No. Survey League

PROPOSED USE (Check): Icrigation Tost Well Municipal Other S) TYPE OF WELL
Rotary X

Cable . (Check): Driven Jected Pases and

Diameter of bole 333 63 in.

Depth drilled All mediumentes adde from

385

120

Depth of completed well

fr. above ground level.

gaiggals

Yellow clay and rock Description and color of 9) Casing: Type: Old F4 (section) Comented firm Steel X Plastic (421) 01 Other

60

95 20

20 40

Sandy Clay, Gravel, Sandstone, 10) SCREEN: Perforated From (ft. Setting To (ft.) Slotted STOR

Was a pump test made? AELT LESIS \*\* If yes, by whom?

YLeld: Timperature of water Artesian flow Baller cest gpm with Sho ATCP \_ft\_drawdown after Et. drawdown after 676 hre.

SCART LEVEL:

ft, below land surface \_Ibs. per square inch

Dace

Arresiza pressure

Depth to pump bowls, cylinder, jet, \*\*\*

(Use reverse side if necessary)

Sandstone, sandy gravel, clay

140 185

Sandy Clay and shale

Shale, Rock and clay

125 140 Rock, Shale, Clay

110 125

Blue Clay Sandy Clay Rock and Sand Rock and Shale Red Bed

Straight wall

Gravel packed

Other

Open Hole

12) WAIER QUALITY: Was a chemical analysis made? Type of water?\_ Did amy strata contain undesirable water? depth of strata Yes Ϋ́cs No No.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements berein are true to the best of my knowledge and belief. Water Well Drillers Registration No 559

Stephenville,

WOLF DRILLING

Texas

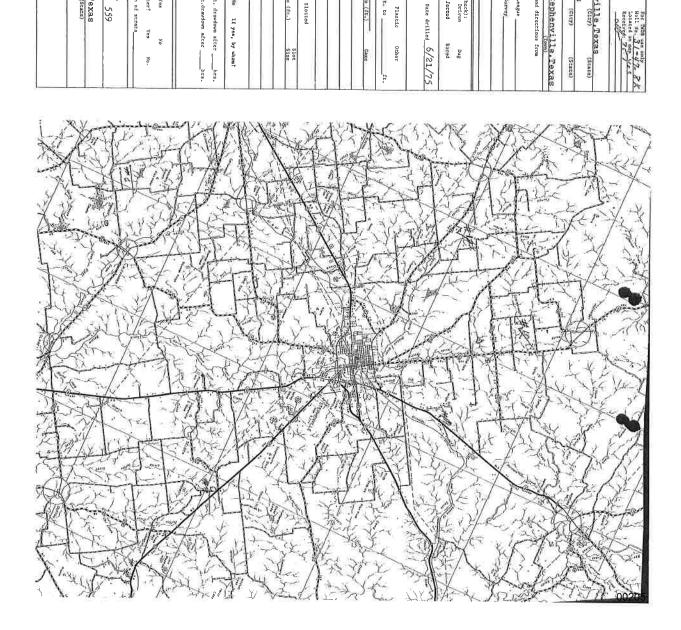
C.W.Wolf
(Type or Print)
S P.O.Box 16

other pertinent information, if available.

Water Wall Driller)

Please attach electric log, chemical analysis, and

\*Addicional instructions on reverse side.



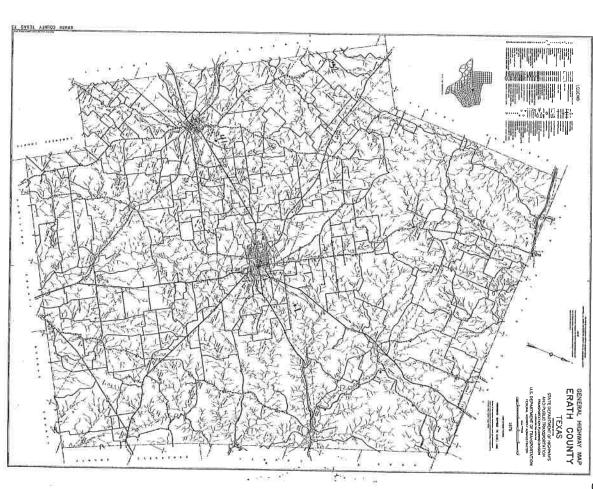
and original copy by certified return receipt requested ....to: TOLR, P.O. Box 12157, Austin, TX 78711

and other pertinent information, if available.  ER Pork - WELL CWNER	Upreservembries  Please attach electric go, chemical analysts, and other pertinent information, if variable, tour FORMAGONYMO (498)  White - TOUR Yellow - DRULER Pink - WELL OWNER
	(Sgreen Hermany Buy)
showelle (T) 70401	ADDRESS 1331 W. Mc Mil St
WELL DRILLER'S LICENSE NO. 1757	COMPANY NAME Kellet Bulling
hat each and oil of the statements horion are true and correct. Lunderstand that failure .	confly that I drilled this well (or the wall was critical under my direct popercipion) and that each and all of the statements horion are true and correct. I understand that failure to complete items t from §§ Will result in the force before items from the confliction and results in the confliction.
	Was actromical analysis mado? Yes X No
	Type of water? Opph of shall Depth of shall VATER?
12) PACKERS: Type . Depth	. 3
gom. Date	16) WATER GUALITY:
State from 70 to below land surface Only 2-4-99	Type sect
Piless Atapper Used Arguioved Atternative Proceedings Used	Dophi to pump souts, sylinder, jet, etc., 1 6 n. 15) WELLTESTS:
Specified Surface State Intelliged	14) I FEPUNIC:  14
יייי פיייייייייייייייייייייייייייייייי	a) Tongario
first system (e)	(0)
Commenced To Harley MATEN 94105 CAMPOS	13) Well plugged within 48 hours.   Casing left in well:  Comess beneating officed in well:  Sacks and
Committee on the committee of the commit	JUSS reverse side of Wall Owner's copy, if necessary)
7,	
44 N Status 70 141 5/92	
141 0 mgs	22-141 Bur sport
New Steel, Pastic, etc. Setting (ft.) Gage Dia. or Perf., Solled, etc. Carding (in.) Used Screph Mg., if commercial From To Screen	20-45 Writer Sund
CASING, BLANK PIPE, AND WELL SCREEN DATA:	36-70 Ked but & Bellew Clay
Undermanned Gravet Papeas C Other  If Gravet Packed give Niceral from 14/ n. to 60 n.	Ro
8) Borehole Completion (Check): Open Hole Straight Wall	70(
☐ Air Robany ☐ Wust Robany ☐ Bored ☐ Air Hammer ☐ Challe Tool ☐ Jetted ☐ Other ☐	State of the 19 1 19 1 19 1 19 1 19 1 19 1 19 1 19
100  Check	
Monitor     Environmental Sol Boring   Younsels   5    Injection   Public Supply   Deventating   Textwelt     Insection light of the TNRCC7   Yes   No	All the United   Programs   Pro
(CEN) (State) (Zip) Corld # 51-47-8	(Street, REPO or phon)
Pet 4 Stylienvelle, TR 7 (Sineria 1823) Long. Long. List.	2) ADDRESS WELL BURNING ACCRESS  COUNTY HOLD TO BE ACCRESS  COUNTY HOLD TO BE ACCRESS  ACCRESS OF THE PROPERTY
REPORT 4.0. 80x (2157 Auth., 17.7871) 512.453-7850	WELL
State of Texas  Texas Department of Licensing & Regulation	ATTENTION OWNER: Confidentiality Privilege Notice on reverse side State

(Use reverse side if mosewary)  7) COMPLICON (Check):  Scraight wall Gravel pyfold  Other  Under reused  Open Bole  NATER LAPSI.  Seate lavel X6 Et. below land surface Dato/Z - 6-28  Accesian peasure  13- per square inch Dato  Accesian peasure  13- per square inch Dato  Soph to pump bouls, cylinder, jet, etc. M6 Ludy  Et.  Daph to pump bouls, cylinder, jet, etc. M6 Ludy  Et.  Daph to pump bouls, cylinder, jet, etc. M6 Ludy  Et.  Shave  Sha	SHELL LOG:  Diameter of hole 6 La. Depth decilled 100 Et.  All necessress nade from  Etem To bescription and color of (Et.) (Et.) (Et.)  O 40 DAA  O 200 AND DOALS AND MAN	by and Board  1. 1. defilted
Other    11)	Doph of completed wall #DO Etc. bare detilied #2-6-78  ### ### ############################	State of Toxas  State of State  State

\*Addictional inscructions on reverse side.

Signed: driller Confidentiality privilege on attached letter. Attention Owner: I hereby certify that this well was drilled by me(or under my supervision) and that each and all of the statements herein are true to the best of knowledge and belief. I understand that failure to complete items 1 thru 15 Address: Company Name: F will result in the log(s) being returned for completion and resubmittal From 0 10 18 180 150 15) Water Quality: Good 140 6) Date Drilled: Start: 09-04-1993 Finish: 09-04-1993 Type of work: County: Texas Water Commission Fo. Box, 13078, Austin, Texas 78711 Location: 1) Dwner: New Well We11 Type Pump: Submersible To 6 10 18 150 161 170 260 Test: Estimated Clay Sand Clay Shale Sand Shale Sand See Map Erath Levy Alexander Formation & F Drilling Inc. Attached. TEXAS WATER COMMISSIBLY Water Level below ground serface:
Date: 09-04-1993 6-1/2 From: From: 50 Deleon, 164 Surface Completion: FER 2 9 1994 Steel Sieve Installed (287.44(3)(A) E Diameter of Hole: Miles: 4) Proposed Use: Domestic 4 HWE From Yield: Address: 209 E Navarro State:Texas Zipcode: 76444 For TWC use only: Well No. Located on map: 31.47.8 8)Casing: Dia: New 0 4 Direction: N Perforation: 12) Packers: Type: None 40 Cementing Data: (Rule Erom To To: 260 To: 1 Trainee Signed: Well Driller's License No. Texas QP.M New, Used: New Gravel Packed Gravel pack From: 15 cs Depth: 7 PVC Type: Bore Hole Completion: Ω From: Stephenville Air Rotary Drilling Method: Well Report State Of Texas 287.44(1) erom: 220 From: 0 To: 260 of Sacks 3 260 02317W To: 260 Gage: 1/8



Sond original copy by conflict roturn receipt request on to: TOLR, P.O. Box (2157, Austin, TX 7871)

ATTENTION OWNER: Confidentiator

L		A - WELL OWNER	ER Pin	White - FDLR Yellow - OffiltER Pink - WELL OWNER	DLR FORM DOTWWD (458)
Į.	min(m)	(Registered Driller Traines)	(Signed)	danier	(Signed) (Licensed Wed Driller)
	<b>P</b>	(ming) (25.00)	(Cviv)	-# P	1.12
	1		1		ADDRESS 2712 Walnut
fatura	DESCO. compet: Lunderstand Inst fathera	Second and all CHE throwness needs are typing on miles:  JUN 3 0 1999  WELL DRILLER'S LICENSE NO. 4805	well on	rell was drilled under my direct supervision) and the log(s) being returned for completion and res	I confly that I dolled this well for the well was deficed under my direct supervision) and that each and at #### There is will result in the log(e) being returned for completion and resubmitta:  JUN 3 0 1999  COMPANY NAME BETTHETT WATER WELL DRILLING WELL BRULERYS UREXYS W. 4805
				8	Was a chomical analysis mode? 🔲 Yes
	80:	S S		Depth of strain	Į
	Cepth	tS: Type	12) PACKERS:	010000000000000000000000000000000000000	5
1 1		gran.	Arresian Row	Contoined and as in the	(5) WATER QUALITY: Old your knowingly perpetrate any strate which
٥	5-27-99	05	11) WATER LEVEL:	It drawdown after 1/2 has	Type test: Pump Base [ Yold: 110 som vith 20
		Approved Alternative Procedure Used			WELL TESTS:
		Specified Surface Slab Installed Specified Steel Streve Installed	% % □□□	Opinider	Other Jox Submersible
		10) SURFACE COMPLETION	10) SURFA		"
j s	1 (	Method of verification of above distance	Method		
	м.	Commission of the Commission o	Distance	From (f) To (f)	To (f))
ļ	11 11	ional	Methodused	1	Casing left in well: Communications
1	No. of Each Sussed 6	300 1.10 315 1		rs copy, if necessary)	(Use reverse side of Well Owner's copy, if necessary)
	31	DATA 0 50	Cementarian	tan .	328 422 sand
			-11		328
					212 11ma
	230				
1	+	1	8-5/8		28 34 clay
Cading	From To	Screen Mg., if commercial	(in.) Used	0 000	
	2	Steel Planic Mc	Ngw		24
		23 I	CASING B	*	
27	₽# NT	☐ Undernamed ② Gravel Packets ☐ Dinar If Gravet Packed give interval from 3.1.5		e 422-440 Red Clay	g clay
	TEM Webients 🔲 🐠	Barehale Completion (Check): Open Hate	3) Boreh	Description and color of formation material	o (n.)
z,		ā (			Completed 5-27 19 99
		Air Rolary Mud Ratary Bored	[N]	12-1/45urface (440)	Started 5 26 19 99
		IOD (Chec)	7) DRILL	DIAMETER OF HOLE	s) WELLLOG:
×	<u>v</u>	Demonstrate Concept  Public Supply Demonstrating Transcall  In the THRCC7 Yes No	Injection [] i	문	Recandificing Plugging
	144	(210)	CSINS)	(Stroet, RFD or other)	TYPE OF WORK (Check):
(472)		Stephenville off 281 (Cop)	ohenvil	2.5 mi NE of	County Erach
101	lle TX 76401	0 Stepi	ss Rt.	ent Station ACCRESS	1) OWNER TOXAS Experiment
	P.O. Box 12157 Austin, TX 78711 512-453-7880	7	REPORT	WELL	v Well Owner's copy (pink)
sing &	Department of Licens		State of Texas	State	ATTENTION OWNER: Confidentiality Printings Notice on reverse side
					and the same of th

315 - 350 May 315 - 350 May 315 - 350 May 315 May 315 May 315 May 315 May 100 Gred original topy by carrifold mail to the Trans Water Development Soard T. D. Sox 13087 Nustin, Texas 787tl Slumeter of hole 7 % in. Depth drilled 4404 ft. Depth of cospicted wall. 3) FIFE OF WORK (Check):
New Well Despending Depth to pump bowls, syllader, jet. ere. 280 Static level; 700 ft. below land surface Date 1/2 1-73 DIDENTIES OF WELL E ROATA Arrestan pressure Propose norther west desisted Texas Assessed hissost supplication of the state of t Secatahe vall 0-2100 grandille Reconditioning 2-x clay Locate by sketch map showing landmarks, roads, crenks, hivey number, ere.\* Ora Agen (Use fivotso side if necessary) ON BACK Sulgeria <u>:</u> Gravel packed - BWell lbs, per square iach Dane I hereby cereity that this well was defilled by an (or under or supervision) and that each and all of the statements begain are true to the heat of up importage and belief. Open Hole All measurements ouds from Check): Other Iccigation - Test Well HATER WELL REPORT Scars of Texas sphenu! ater Well Brillers Registration No. 12) WATER QUALITY:

Was a chemical analysis made? 10) SCHEZN: E1521 TIME (11 3 836 3) Castag: 65% (taches) Bailton teats 30 with Perforacce Type of water? Did any strata contain undesirable water? Ytold: Arcesian flow Comented from Captrature of water Was a pump test made? WE streetin tem Stephen!! No Addensa (Street or AFO) Dwell Delines Jo (Ass 4ms ask 2mx) Abstract lo. Give legal toration with distances and directions from adjacent sections or survey lines. Other Municipal, ft.above ground level. Fron (it. O 00 S) TYPE OF SEE (Check): 420 Cable Sussen Yes \_\_\_\_fr.drawdown after 4 hes. depth of strate To ((E.) ft. Date drillad//-2/- 33 Yes. ft. drawidown efter 21. 10 ő 70 (11.) Socrey reagner Slotted Dellice Jested Plaseic (£15) If yes, by whom? 10.3 10 10 ŝ Gored 2015 Sac 31 (22222)

"Additional instructions on reverse aide.

Please attach electric log, chemical manipais, and other pertinent information, if available,

DEVELOPED TO THE

NEW TENEDS

四道 印花

JAN2 3 1975

SI

TWG-0392 (Rav. 06-10-85)

TEXAS WATER COMMISSION COPY

AUG 221574

The sketch showing the well location must be is accurate as possible, thooing isotearks, in sufficient detail so that the well may be plotted on a General Mighway Map of the county in which the wall to located.

2) LOCATION OF WELL;

Reference policy from which diseases are measured and directions given should be of a permanent nature (e.g. highesystructosestions, spectro of comma, river mod creak bridges, californi crowsings). The distance and direction from the measurement about always se indiament.

Information furnished in Section 2) of the UDBE-CH-53 is very important. Unless the well can be accurately located on a cap the value of the other data contained in the Report is greatly reduced. then giving a legal description include a sketch showing location of the well within the described area. e.g. survey sharract.

Driller must compliet the legal description to the hight with distance and direction from two interneting are seen or strively lines, or he must founts and identify the well on an official fluorietie or Hull-Scale Taxes County (17) 8 General Highway Map and attach the map to this form.

Abstract No.

2) LOCATION OF WELL:

1) OWNER GORdon

TAYlOR

Addres

955 REDI

Charlotte

(N.E., S.W., etc.)

direction from Strahen 111/e

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

WATER WELL REPORT

Texas Water Well Ordlars Board P. O. Box 13087 Austin, Texas 78711

State of Texas

Started 12-27 6) WELL LOG

Dia. (in.)

DIAMETER OF HOLE

7) BOREHOLE COMPLETION:

☐ Opon Hole ☐ Straight Wall

© Gravel Packed ☐ Other \_\_\_\_\_

☐Reconditioning ☐Plugging

Domestic Dindustrial Monitor Public Supply Purigation Tost Well Dinjection Other

X New Wall

TYPE OF WORK (Check):

4) PROPOSED USE (Check):

See attached map.

5) DRILLING METHOD (Check):

Driven |

Mud Rotery Air Hammer Aletted Bored Distance and direction from two intersecting section or survey lines \_

Survey Name

Township

TUVAS EXP STATION STERILE N VILLE

Please attach electric log, chemical analysis, and other pertinent information, if available ADDRESS P.O. COMPANY NAME Downell Well Sequire Jat., Water Well Driller's License No. Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes. BD.No.
If yes, pubmit "REPORT OF UNDESIRABLE WATER".
Type of water?

Type of water? WATER QUALITY: Completed 12:38 018-06 Was a chemical analysis made? Pes ANo 00-60 I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items I thru 12 will result in the logical belief exturned for completion and resubmittel. Mank Direction Use reviewe side if necessary 19.85 1014 Surface TOTAS WATER OF MANCEON MAY 2 9 1986 West Cristians ription and color of formation material Stephenville (Signed) 14) WELL TESTS: bestolic feets. IN they 13) TYPE PUMP: 11) WATER LEVEL: 10) SURFACE COMPLETION B) CASING, BLANK PIPE, AND WELL SCRESN DATA: 12) PACKERS: Other. Turbine Specified Surface Slab Installed [Rule 319,44(c)]
Pitless Adepter Used [Rule 319,44(d)]
Approved Alternative Procedure Used [Rule 319,71] Depth to pump bowls, cylinder, jet, etc. Method was Poux Comment by Dougall Walall Sexuite Type Test: Static level 350 ft, below land surface Arcesian flow If Gravel Packed give interval . . . from . □ Pump gpm with Tex. □ Bailer 🖫 Submersible Type -mag Well No. Located on map ☐ Jetted 370 K. 10 430 K. Setting (ft.) 76401 Date. ☐ Cylinder ☐ Estimated OEB Tose

00209

Stepheny, le Tex 16401

EREDA HIGHWAY MAP
TEXAS

COMPANY NAME hareby cardly that this was was drilled by me (or lease attach electric log, chemicstranalysis, and other perdnent information, it available Started 10-18
Completed 10-23 15) WATER QUALITY: 14) WELL TESTS: 6) WELL LOG: ☐ LEGAL DESCRIPTION: Orlier must complete the legal description below with distance and direction from two Intersecting section or survey lines, or he must beats and identify the well on an official Charter or Half-Scale Teast County General Highway kep and attach the map to this form. ATTENTION OWNER: Canfidentially Privilege Notice on Reverse Side ☐ Reconditioning ☐ Plugging Dispute and direction from the intersecting section or survey lines. U Turbine TYPE OF WORK (Check): YJakit: ppm with Type Test: Depth to pump bowls, cylinder, jet, etc., COUNTY BOATA . OWNER Best Wright From (fL) 1 Symmy P Pung Jef 🗆 To (ft.) Block No. Dader Liberry 4 hrs Doubmarable Description and color of formation material PROPOSED USE (Check):

Dameştic Dindustrisi
Infgation Diest Well Оіа. (Ір.) — From (Іт.)

6 / — Surface Send Koras APR 4 S90 to SURFACE COMPLETION

Specified Surface Size Installed [Pules 287.44(2)(A)]

Piless Adaptived Real Procedure Used [Pule 287.44(2)(A)]

Lennol TEXAS WATER COMMISSION afford Attainment Procedure Used [Pule 287.71] DIAMETER OF HOLE Township Adminder Thanks Walls Waller At the Comment sion) and that each and all of the statements herein are true to the best of my who warmed for completion and resubmittal. State of Texas WELL REPORT ☐ Monitor
☐ Injection ADDRESS RE J New Sizel, Pissuc, etc.
(In.) Used Sampn Mag. J comm WELL DRILLER'S LICENSE NO. Abstract No. 12) PACKERS: Static levels 1. P. bolow land surface 8) CASING, BLANK PIPE, AND WELL SCREEN DATA: De-Watering Artesian flow CEMENTING DATA [Rule 287.44]]]
Committed from 120 n. to 0 n. No. of Sacks Used BOREHOLE COMPLETION: ☐ Gravel Packed TJ-oSon Hote Il Gravei Packed give interval . . . from For TWC use only: Well No. 31-47-8 Located on map Horaco & 5 Jucken ☐ Straight Wall DRILLING METRIOD (Chueck):

Detect Reasy | At-Hammer | Jetsel | Bared |
At-Rossy | Caste Tool | Other | (Registered Orliter Trainee) 1252 Survey Name henvell 127640 gpm. 26/5 Set hot 0 429 156 Taxas Water Well Orllians Board P.O. Box 13087 Austin, Texas 78711 Setting (ft.) 7660 Underreamed and belief, I understand Date 九四 10-23-80 0 0

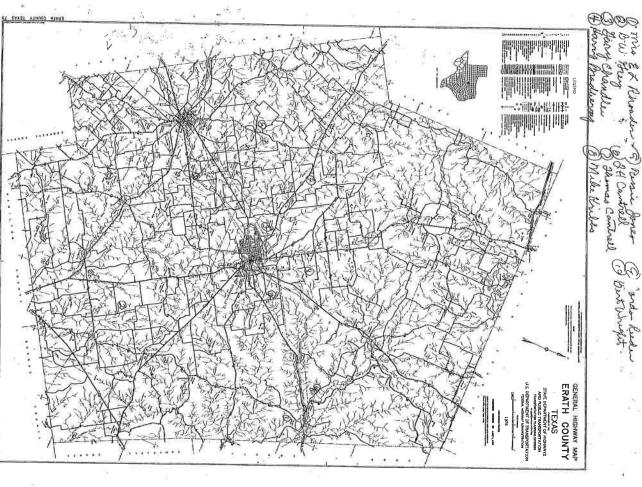
TEXAS WATER COMMISSION COPY

WWD-012 (Rev. 09/21/88)

コ 00210

and original copy by centiled mail to: Takes Water Con.

Jon, P.O. Box 13087, Austin, Texas 7871



Arranting Owner		T <sub>c</sub> . Depart	mant of Licen	re and Pagula			
ALLEADING OWNET: Confidentiality Privilege Notice on reverse side of owner's copy.		E: 157	West Well Older/Purp Nestler Program Wast Well Older/Purp Nestler Program 77 Austin, Texas 78711 (512)463-7880 FAX (5) Toll free (800)803-9202 Email address: water, well@license, state, tx, us	taller Program 1463-7880 FAX 15 9202 9cense, state. bx, us	12)463-8516	This form must be completed and filed with the department and owner within 60 days upon completion of the well.	complete lepartmen 50 days f the well
LIMMINE		100	100				
GARRY REAGIS		K Rock	Caute Ro	Round Roc	State 778	7866	664
1.50							
ERATA		Physical Address イン オーションかく ハ	St. Oily	city Stephenoville	A state	76¢	104
3) Type of Work	Lat	33	Long	the state of the		31-47	20
Replacement	Reconditioning Deepening	4) Proposed Use (check) Industrial Irrigation [		Enviroamental Soi Public Supply	ratering O	estic 5) Testwell	3,
6) Drilling Date		Diameter of Hole	Ole .	7) Drilling Method (check)	(check)	Driven	
Started /	/ Dia.(in)		To (ft)	Air Rotary		Bored	
Completed (8)	5	0	440	ammer	0	Jetted	
-							
From (ft) To	3	Description and color of formation material	ion material	8) Barehole Completion	mpletion 🗆 O	Open Hole Straight Wall	HeW II
0	5 70	النحمد		Under-rean	☐ Under-reamed XI Gravel Packed ☐ Other	ked Other	Ď
4	25 Ca	Colorles		Casing, Blank	Casing, Blank Pipe, and Well Screen Data		
25	0	2008		New	Steel Plastic etc.	Setting (ft)	Gage
230 0	200 8	22		(in.) Used	Screen Mfg., if commercial	mercial From To	Screen
		of Ohn Oley		Н	POR	0 46	100
	130	011					
350	440 Ro	LENE TEN	Shoule				
		9		9) Cementing Data Cementing from Q	.A 10 50		3
(Use rev	(Use reverse side of Well Owner's copy, If necessary)	er's copy, if necessary)		Method Used 20	17.10	tr	
gged ft in well:	☐ Well plugged within 48 hours Cement/Bentonite placed in well:			Cementing By 120 Distance to septic ty Method of verificati	Cementing By \( \overline{D} = \overline{\text{We fit } \overline{Set Review}} \)  Distance to supple system field or other concentrated continue  Method of verification of above distance.	Cementing By Do pace! So If So R vice Distance to supur system field or other concentrated continuation Method of verification of above distance.	in in
romass	rom (II)	10(0)	Sacio used	10) Surface Completion	mpletion		
14) Type Pump	lifer Sinhmersible	Persible   Cylinder		Specified Surface Sleeve Installed     Pitless Adapter Used     Approved Alternative Procedure Used	Sleeve Installed sed rive Procedure Used		
Other gump bowls	er, jer erc.	Ш	#/	11) Water Leve		8	
ump est	Bailer	Estimated he		Statesian Flow up	n Date	18, 25,00	
16) Water Quality				12-Packers	J. P.	Depth Depth	
TYES A NO If yes	etrate a strata which con s, did you submit a REF	Day you knowingly centerate a strata which contain indesirable constituents.  ☐ YES 웹 NO If yes, did you submit a REPORT OF UNDESTRABLE WATER	WATER		Elle a a street		
Was a chemical analysis made	□Yes 24]	40		10000			1
Company or individual's Name (type or print)	ual's Name (type or	print) Buell	well Se	SERVING	Lic. N	164) ON	
Address P.O . Dox	402	>	Ω	teo hedu. 11	State TX	Zip	7000
300	7		1 10		5		1
Signature (1)	Z V Q	· MA		/ / / /	1111		₹,

TDLR FORM 6001 WWD

White - TDLR

Yellow - Owner Pink - Driller/Pump (nstatler

TWC-0292 (Rev. DS-10-85) TEXAS WATER COMMISSION COPY

Wall No. 37 only 7.8

(GICENSED WATER WELL DEILLER)

(REGISTERED DRILLER TRAINES)

	TANSINE	
Please up black ink. State Sind original soup by Carrifind mail to the Towar Wiese Commission P.O. Box 13097 Aurin, Track 27911 ATENTION OWNER: Confider		Texas Water Well Drillers Board P. D. Box 13087 Austin, Texas 78711
Craw	8	Stephenwillitz
2) LOCATION BIFLE TO COUNTY COUNTY COUNTY	direction from	Hophenille
a	Legal description:  Section NoBlock NoTownship	ship .
tion or survey, in the reason in the reason management so well to or survey, in the reason to the reason of the re	Survey Name	Panil Yav
#5.4	See attached map. ON 31-62-4	
3) TWE OF WORK (Check): 4) PRODUCTION USE (Check):  Convenient Industrial   Monitor	upply SJ DRILLING ME	THOD (Check):   Driven  Air Hammer   Jetted   Bored
oning Plugging   Irrigation   Test Well   Injection	☐ Air Rotary	Other _
DIAMETER OF HOLE  19 8 Dia. (in.) From (fr.) To ft.)  2 19 8 Dia. (in.) From (fr.) To ft.)	OREHOLD COMPLETION:  Open Hotel	
100 Tool		ft, to ft,
(ft) (ft)	CASING, 8	
	Oia, New Steel, Flastic, etc. Or Perf., Slotted, etc. Screen Mgf., if commercial	From To Screen
4-16 Calican		-419
16-40 San Pora	Status	396- 419 STZ
40-125 Blue Shale		
125-275 femestone	9) CEMENTING DATA [Full 319.44[b]] Comented from 150tt to 6 tt	No. of Sacks Used
275- 340 Blue Shee	7 Baco 94	Sacks Used
340-375 Water Sand	Comented by	
375-382 Red Bod	O Specified Surface Slab Installed (Rule 319,44(a))	9.44(c)]
382 - 414 Water Son D+ Brance	Approved Alternative Procedure Used [Rule 319.71]	ule 319.71]
\$14-419 Bens Some	11) WATER LEVEL: Static level 372 ft. below land surface	urface Date 3-7-87
THE SECTION AND ADDRESS OF THE SECTION ADDRESS OF THE S	fitzi PACKERS: Type	Date
APR - \$ 1987	Muchan	150'
IEJOS WATER COMINISCO	13) TYPE PUMP:    Turbine	le 🗆 Cylinder
	Depth to pump bowls, cylinder, jet, etc.,	399 10
Det you wowship benefit on strass which contained underrable water?		
Type of water? Addition Depth of Lyds  Was a Inmics analysis mode? Set 100	Yeld:	th Jetted Estimated
I here by cerd'ty that this wall was drilled by ma (of under my supervision) and that each and all of the statements herein are true to the bast of my showledge and being. I understand that failure to complete items I thru 12 will result in the logis! being returned for completion and resubmitted.	rilled by ma (or under my supervision) and that each and all of the statements herein are true to the best of my that failure to complete items 1 thru 12 will result in the logisl being resumed for completion and resubmittel	e true to the best of my pletion and resubmittel,
Dulling	Water Well Orliber's Liconso No. 1252	
C NEW O.	Hephewelle TX 7	CHAI
(Signed) I A DAM I (Signed) (Signed)	(Replaced Driller Visions)	For TWO use only.
riease attach electric log, chemical analysis, and offer pertinent information, if available.		No. 3/ - 7 /- 0

GROLOGICAL DESCRIPTION:

PRON TO DESCRIPTION

0 1 DOR SOLT

1 30 SANDY CLAY CLAY CLAY SAND SANDY CLAY

150 150 RED AND BUTZ CLAY INNSTORE-SHALE

150 275 SANDY CLAY SAND CLAY

220 275 SANDY CLAY SAND

220 275 SANDY CLAY SAND

221 275 SAND-GRAVEL

225 315 SAND-GRAVEL

327 425 SAND-GRAVEL

425 438 SAND-GRAVEL

436 537 CLAY SAND-GRAVEL

437 435 SAND-GRAVEL

438 SAND-GRAVEL ATENTION DANKS: Confidentiality
PINTINGS Whites on Reverse Side
11 DANKS: TAXONS 3D
ADDRESS OF WELL:
COUNTY: ENAME
Street of PRO: SKITH SPRINGS 2D
Street of PRO: SKITH SPRINGS 2D COMPENSOR DAYSON OF SEL SCREEN DATA:

DASSING, BLANE PERS, AND WELL SCREEN DATA:

DIA NEW/USED DESCRIPTION

4 PLASTIC, BLANE
4 PLASTIC, SLOTTED STATE OF NORK: NEW WELL I HEREBY CERTIFY THAT THIS RELL HAS DRILLED BY ME (OR ONDER MY SPERMISION) AND THAT BACE AND ALL OF THE STATEMENTS HEREIY LARE TRUBE TO THE BACE AND ALL OF THE STATEMENTS HEREIY LOC(S) BEING RETURNED THE CONFIGURATION AND FEATURE TO COMPLETE ITEMS 1 THEO 15 HILL RESULT IN THE LOC(S) BEING RETURNED THE CONFIGURATION AND FEATURE TO COMPLETE ITEMS 1. THEO 15 HILL RESULT IN THE LOC(S) BEING RETURNED THE CONFIGURATION AND FEATURE TO COMPLETE ITEMS 1. THE OF THE RESULT IN THE COMPANY NAME: ASSOCIATED SERVICES ADDRESS: P.O. BOX 16 LS) RATES QUALITY: TIPE OF WATER: BO STRAIN OF UNDESTRABLE WATER PENETRATED 13) TYPE PUMP: SUBMERSIBLE DATE DRILLING: 09/05/01 6) WELL LOG: 00789 (signed) DEPTH TO PUMP: 380 DIAMETER 6.75 DIAMBTER OF HOLE HATER WELL DRILLER'S LICENSE NO.: 2404 CITY: STRPHRAVILLE STATE: TX ZIP CODE: 76401 STATE OF TEXAS NATER WELL REPORT ADDRESS: 2488 CP 176 SON SON 14) HELL TEST:

PONP
TIELD: 16 GPM WITH CHARS BT DRAWDOWN APTRE 24 ERS PROM 0 477 TO 477 537 AIR ROTARY GAGE CASING SCREEN
SCH40
SCH40 (signed) Hethod used: CRMENT-PÜNPED

Cemented by: GRAY

Distance to septic field lines: 100+ ft.

Nethod of verification of above distance:
CENTMENT

IN SUPERCS CONVECTION:

SPEC. STEEL SIZANTE:

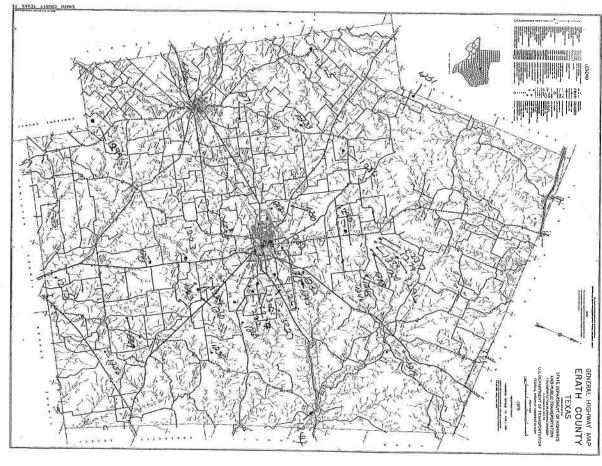
STATIC LEFEL: 330 FT. DATE: 09/06/01

ACTESIAN MICH.

GPH. DATE: DEFTE CITT: STREEBNILLS CEMENTING DATA:
Cemented from
0 PT. TO 287 PT.
20 PT. TO 287 PT. GRAVEL PACKED IF GRAVEL... STATE: TX 512: 76401-FOR THE USE OBLY
NELL NO.
LOCATED ON MAP FROM 287 NO CHENICAL AMALYSIS NADE No. FT. TO 537 . of Sacks Used 30 DATE: 09/06/01 DATE: 33

WWD-012/Rev-01-22-97) TEXAS WATER COMMISSION COPY

Market   M	COUNTRY PARTY AND CONTROL OF THE COUNTRY OF THE COU	17-8	Well No. 31- 47-			Please attach electric log, chemical analysis, and other pertinent information, if available.	ease attach e
PARTITION   Control   Co	ARTERIOR ORDER SALL A LALE SALE SALE SALE SALE SALE SA					Common Water Well Orium	(Signed)
Bale   Address   Bones   Bon	AREA PATE IN COURTED A CONTROL TO CONTROL TO CONTROL TO CONTROL THE TO CONTROL TH		76	$\mathcal{C}_{\bar{a}}$	Julle)	558	ADDRESS
Ball   Abbit   Ball	CONTROL   PRESENTING   CONTROL   C	ret of my Ibmittel	on and resu	Il of the statements herein are tr sg(s) being returned for complete 1891	on) and that each and all ru 12 will result in the lo	or by certify that this well was eithed by me for under my supervision midge and belief, I understand that failure to complete items 1 too.  AND OW ON These or Fried Section Section 1.	kno kno
Address  Add	ATENTION OWNERS ATENTION OWNERS OF THE PROPERTY PRINCE TOWN THE CONTROL OF THE SEASON THE ATENTION OWNERS AND THE ATENTION OF THE ATENTION OWNERS AND	Estimated	etted   Mown after.	□ Pump □ Bader 4J	14) WELLTESTS: Type Test: Yield:	Krowingly pengyate any straits which contained undefinable of Yes Web	Typ Did
Address    Part	ATENTION OWNER: Confidentially Printing Notice on Research Side  ATENTION OWNER: Confidentially Printing Notice on Research Side  Address    Confidentially Printing   Confidentially Printing Notice on Research Side   Notice of Search State   Notice of Search State   Notice of Search State   Owner of HillState	fr.		☐ Jet Submerable	□ Turbine □ Other □ Depth to pump bo	DIA LENG	15) WATER
Address   Street of REOI   Street   Street of REOI   Street   Street of REOI   Street	ATTENTION OWNER; Confidentially Policing Notice on Reserts Side    Confidential					NUMBER OF ARMS STATES	
Continue	ATTENTION OWNER; Confidentially Philips Notice on Revers Side  Author New 7911  Address  Band Attention of the right indicate the finance of the right indicates of the must be used descriptions to the right indicates of the finance of the right indicates of the must be indicated of the right indicates of the finance of the right indicates of the finance of the right indicates of the righ	35	D D	100	11) WATER LEVEL Static level Artesian flow  12] PACKERS:	SEP OS 1988	
Control   Cont	ATTENTION OWNER: CAPITATE NITE Paiding Notice on Reserve Side  **RECORD   Server of Miles   Mi	= 4.41	319,71]	#PLETION Face Shab Installed (Rule 319.44 or Used (Rule 319.44(d)) Pernative Procedure Used (Rule 3	10) SURFACE CON Specified Sur Pittess Adapts Approved Ata		
County   C	ATTENTION OWNER: Complete stilly Privilege Notice on Reserce Stide  ### AUTHORN OWNER: Complete stilly Privilege Notice on Reserce Stide  #### Authorn of Tree Name  ### Authorn of Tree Name  #### Authorn of Tree  #### Authorn of Tree  #### Authorn of Tree  ##### Authorn of Tree  ###### Authorn of Tree  ##################################		vo. of Sacks vo. of Sacks	(Fula 319,	9) CEMENTING D Camanted from Method used Camanted by		
Continued:   Address   ISbreet or Aprol   Continued	ATTENTION OWNER: Complete stilly Printige Notice on Reserve Side  AUTHOR OWNER: Complete still printing Notice on Reserve Side  Author News 78711						10-0m
Name   Adepts   Shares of Repol   Clove   Shares   Adepts   Clove   Shares   Clove   C	ATTENTION OWNER: Confidentiality Phinlige Notice on Reserve Side  AUTHORITION OWNER: Confidentiality Phinlige Notice on Reserve Side  Authorition Town No.   Survey Notice on Reserve Side    Authorition Town No.   Survey No.   Township    Authorition Town No.   Survey No.   Township    Authorition Town No.   Survey No.   Township    Authorition No.   Survey No.   Town	80 50 F					20-00
Correction to the right description to the right description:   Special May   Section May   Surrey Name   Surrey	ATTENTION OWNER: Confidentiality Philitige Notice on Reserve Side  AUTHORITION OWNER: Confidentiality Philitige Notice on Reserve Side  AUTHORITION OWNER: Confidentiality Philitige Notice on Reserve Side  Authorition (Clov)   Susset (Clov)    Ngs WELL:   Authorition   Section No.   Authorition   Township   Indidentian from which preserves and descriptions:  Section No.   Block No.   Township   Township   Indidentian from two intersecting section start Clouds.   Section No.   Survey Nums    Ngs WELL:   Authorition   Township   Authorition   No.   Survey Nums   Survey Nums    Ngs WELL:   Authorition   Section No.   Block No.   Township   Indidentian from two intersecting section of survey lines    Ngs WELL:   Authorition   Section No.   Survey Nums   Survey Nums    Ngs WELL:   Authorition   Section No.   Authorition   Survey Nums    Ngs WELL:   Authorition   Section No.   Authorition   Survey Nums    Ngs WELL:   Authorition   Section No.   Authorition   Survey Nums    Ngs WELL:   Authorition   Survey Nums   Survey Nums    Ngs WELL:   Authorition   Survey Nums   Survey Nums    Ngs WELL:   Authorition   Authorition    Ngs WELL:	2	1 3	l, Plastic, etc. , Slotted, etc. en Mgf., if commercial	Crew Or New	State +	0-100
NEWELLA (Namo)  Address   Sheet of ReD)  (Namo)  (Namo)  Address   Sheet of ReD)  (Namo)	ATTENTION OWNER: Confidentiality Philitige Notice on Reserve Side  AUTHORITION OWNER: Confidentiality Philitige Notice on Reserve Side  Author, Taxas 78711  Authorition (City)   Sussol (Zio)    N. S. Welly   Address   Street or Nii Di   direction from   SU     Di   Township    Indiana and direction to the right of direction from   Survey Name    Indiana and attraction to the right of section No.   Block Nb.   Township    Indiana and attraction and direction or name   Survey Name    Indiana and attraction or name   Survey Name    Indiana and attraction   On-best   On-best    Indiana   Survey Name   On-bes		DATA:	K PIPE, AND WELL SCREEN	B) CASING, BLAN		(ft.)
Common   C	ATTENTION OWNER; Confidentially Privilege Notice on Reverse Side  **REALL**	$  \cdot  $		gPLĚTION:  D Straight Wall  D Other  1 give interval from	7) BOREHOLE CO	0/13.19.8 10//3.19.8	Started _ Complete
Continued   Cont	ATTENTION OWNER; Confidentially Privilege Notice on Reserve Side  ### MILE ALL ALLE ALLE ALLE ALLE ALLE ALLE AL	1 1	heck): numer   Ja-	5) DRILLING METHOD (CI	□ Public Supply	WORK (Check):    Despening   Domestic   Industrial   Monitor	New Wel
Address Street of APDI (City) (Suppl)  Milled in	ATTENTION OWNER: Confidentiality Privilege Notice on Reserve Side  Address Street William Address Street William Address Street William Address Street William Address Address William Address Address William Address Address Address Address William Address		iba i	lock No. Township  Survey Nams  Township  Township	or No	register the legal description to the right and description legal description to the right and description forms under state and state a	Orillar must with distant tion or turn well on an o General High
Address (Street or NOO)  Address (Street or NOO)  A miles in Al direction from 5 U1/10 (Stand)	ATTENTION OWNER. Confidentially Privilege Notice on Reverse Side  Address Street on Mills in Address America Side  Amilies in Address Street on Mills in Address of Reverse Side  Amilies in Address Street on Mills in Address of Reverse Side  Amilies in Address Street on Mills in Address of Reverse Side  Amilies in Address Street on Mills in Address of Reverse Side  Amilies in Address Street on Reverse Side  Amilies in Address Street Street on Reverse Side  Amilies in Address Street Stre		(Town)		(N.E., S.W. etc.)	C Legal des	
OWNER Bill Diduell	ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side  Address  Address		1 15	l	(Street of RRO)	(Namo)	2) LOCATI
	ATTENTION OWNER: Confidentially Privilege Notice on Reverse Side		6			Bill Lidue ll	1) OWNER



STEPHEN YILL & OTHERS OF LINES Send original copy by derificial boil to the Texas Water Development Sound P. O. Now 12087
Austin, Taxes 78711 of Water Livel: 300 fc. below land surface Data - 22-76 SSERBON 5)WELL LOG: Diameter of hole Wer Hell Deepening Person having only defiliant TEXAS PORTULATIVED EXP. STA. Marries PO, Box. 292. Depth to pump howle, cylinder, jet, sec. 380 below land surface. (Use raverse side if nocessary) COMPLETION (Check): 365-385 310-345 Secaighe vall 180 - 235 210 - 235 235- 250 60 - 180 Reconditioning COUNTY FIRST Artesian pressure tendernosticx. Agricultura Experiment Sta. 250-265 3 - 20 When reverse side it messative STATION NOUS (Chase). O n D. Dawell Marine Line and the second Flugging Acravel packed B lbs. per square inch Date OX 558 I hereby correlly that this well was defiled by mm (or under my supervision) and that wash and all of the statements herein are true to the boat of my knowledge and belief. , i SANDY CLAY & GrACE SANDY CLAY CLAY CLAY & CLAY & CHAY CLAY & CHAY 10. Depth drilled 400 ft. Depth of completed well 400 ft. Date drilled 5/82/76 Open Hole Blue Clay Sana, & Sannark Clay. TOP Soil All measurements made from Clay Doncetic (Check): liret garden Other (Oney) III were texts: > stles to WATER WELL REPORT StepHenwille State of Texas Test Wall Water Well Drillers Registration No. 0 10) SCZZZN: 12) WATER QUALITY:
Was a chemical analysis made? Type: 01d (inches) DOLDER WELL SCAUGE, INC. Perforaced Committed from Type of water? Did any strata contain undesirable water? Temperature of vacce Arrestan flow\_ Dailer cest Kield: 180 spa ulth 20 ft. draudoum after 24hrs. Was a pump test made? SAME AS ABOUR, 31058 Give logal location with distances and directions from adjacent sections or survey lines. Muntzipal (tark were are deep of secution. Abstract Sp. Other ft.above ground level. etc.) direction from 5+58 4500; 116. 1014 Year (Ct.) to (Ct.) Spe with From (ft. ì b S)TYPE OF WELL (Cheek): Cable 597 TEXAS 76401 Setting Steel 1368 \_depth of strate\_ Stephemoille Tx fc, drawdown after hes Yea \* ۱ 400 ft. to 100 Survey To (fr.) Secred Postane. Flancad Playtic MDD WPLC 107 6 Bored Other Bug 2100 9 (estag)

S) COCATION OF WELL:

The skatch phoring the well location must be an accurate as possible, shoring Innomatis, is sufficient decisi so that the well may be plotted on a General Highway Map of the county in which the well is located.

Reference polics from which distances are measured and directions given should be of a permanent names (e.g. highway interestations, conter of Comm., elver and errock bridges, railroad crossings). The distance and direction from the neutron tron should minary be indicated.

Information furnished in Section 2) of the TMPSE-GM-S3 is very important. Unless the well can be accorately located on a map the value of the other data contained in the Report is greatly reduced. When giving a legal description include a skerch showing location of the well within the described area, e.g. survey abstract,

No. 6 WELL LOG Pot of 

375-399, 400 RED BED Clay SAND Store, Sp SANDY Clay

\* #4 \*\*

Texas Water Development Board Central Records

TEXAS WATER DEVELOPMENT BOARD OECEIVEC AUG 11 1976

\*Additional instructions or rawerse tide.

Please Attach electric log, chemical analysis, and other pertinent information, (f available:

GEOLOGICAL DESCRIPTION:
FROM TO DESCRIPTION:
7 TOP SOIL AND ROCX
7 S RED CLAY
15 CALCHE
7 SAND 7 COMPANY WAME: ASSOCIATED SERVICES ADDRESS: P.O. BOX 16 (signed) LOG(S) BEING RETURNED I MERESY CERTIFY THAT THIS WELL WAS DRILLED BY ME (OR UNDER MY SUPERVISION) AND THAT EACH AND ALL OF THE STATEMENTS HEBEIN ARE TRUE TO THE BEST OF TAXABLEDUE AND BELLEF. I UNDERSTAND THAT FAILURE TO COMPLETE ITEMS I THRU IS WILL RESULT IN THE 15) HATER QUALITY: TYPE OF WATER: 13) TYPE PUNP: TYPE OF WATER:

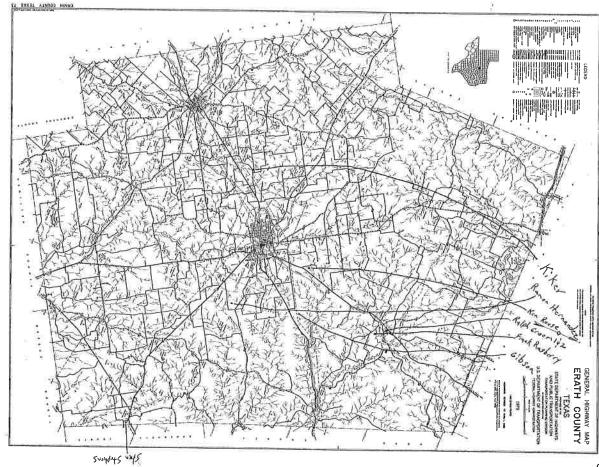
NO STRATA OF UNDESTRABLE WATER PENETRATED SUBMERSIBLE DEPTH TO PUNP: 360 70 SAND AND GREY CLAY
80 BLUE AND RED CLAY
240 SHALE AND REP CLAY
280 SANDY CLAY SAND SHALE
320 GREY CLAY AND SHALE
320 SAND-SRAYEL AND GREY CLAY GREY AND RED CLAY WATER WELL ORILLER'S LICENSE NO.: 2404 CITY: STEPHENVILLE STATE: TX ZIP CODE: 76401 S RESUBNITIAL 14) WELL TEST: YIELD: 12 TEXAS WATER COMMISSIONEC CONDUCTION: الحمكا NOV 0 1 1993 : (signed) GPM WITH UNK FT DRAWDOWN AFTER 24 HRS 50 5 = 12) PACKERS: II) WATER LEVEL: (9) CEMENTING DATA: (REGISTERED DRILLER TRAINES) Comented from FT. TO 330 FT. TO FT. Temented by: BILLY, COLTON & GARY Method used: CENENT- PUMPED ARTESIAN FLOW: STATIC LEVEL : 320 HONE FOR THE USE ONLY
HELL NO.
LOCATED ON MAP 31.47.8 NO CHENICAL ANALYSIS MADE GPM. No. of Sacks Used DATE: 07/08/93 MId30

8) CASING, BLANK PIPE, AND MELL SCREEN DATA:
DIA MEM'USED DESCRIPTION F
4 H PVG, BLANK 0
4 N PVG/ SLOTTED 1 3 3) TYPE OF WORK: HEW WELL. ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side DATE DRILLING: 6) NELL LOG: 00060 STARTED: 07/05/93 COMPLETED: 07/08/93 County: ERATH 4

SEE-ATTACHED MAP.: DIAMETER OF HOLE
DIAMETER F.
6.75 0 ADDRESS: RT.2 4) PROPOSED USE: DOMESTIC : 360 FROM TO TO THE GAGE CASING SCREEN 2 BOX 281P CITY: STEPHENVILLE STATE OF TEXAS

WATER WELL REPORT

2 80X 281P C 5,390\_ SCH 40 7) BOREHOLE METHOD: GRAVEL PACKED IF GRAVEL ... 5) DRILLING METHOD: HUD ROTARY FRON 330 FROM STATE: TX ZIP: 76401-**5** 5 390 22 31.47.6



MWD-012 (Flev. 09/21/88) Started 10-18
Completed 10-23 ate attach electric log, chemical analysis, and other pertinent information, if available, 15) WATER QUALITY: ATTENTION OWNER: Confidentally Privilege Notice on Reverse Side Driller must complete the legal description below with distance and direction from two interse Cruarter- or Haif-Scale Texas County General Highway Map and attach the map to this torm. LEGAL DESCRIPTION: Did to a stilling provides any strata which contained undestrable constituents?

I have supported to the provided and the provided to the prov Other \_ DEEL ATTACHED MAP #10 ☐ Reconditioning ☐ Plugging Depth to pump bowls, cylinder, jet, etc. OWNER Best Write TYPE OF WORK (Check): From (It.) Dispers and direction from we intersecting section or survey Treat gpm with To (ft.) 0 Description and color of formation material (4) PROPORED USE (Check):

Chomeste Cindustrial

Cintigation Chest Well Sind Korks APR 4 990 ou Surface COMPLETION

Specied Summa Stab Installed (Plue 257.44(2)(A))

Prince TEXAS WATER COMMISSION Procedure Used (Plue 257.74)

NATER LEGGL:

11) WATER LEGGL: Jon, P.O. Box 13087, Austin, Texas 78711 EGELV TEXAS WATER COMMISSION COPY State of Texas
WELL REPORT ☐ Monitor
☐ Injection WELL DRILLER'S LICENSE NO. E ward used Totally Walle Ro of Specified Used Comes Abstract No. 12) PACKERS ecting section or survey lines, or he must locate and identify the well on an official 8) CASING, BLANK PIPE, AND WELL SCREEN DATA: WATER LEGS CEMENTING DATA [Fulls 387,441]]
Certainted from 120 ft to 0 ft. No. of Sacks Used ☐ Gravel Packed If Gravet Packed give Interval .... from For TWC use only: Well No. 31-47-8 Localed on map 5) DRILLING METHOD (Check):

Check Rosey | Air Hammer Other \_\_\_\_ it. below land surface (Registered Driller Trainee) Survey Name 100 95 554 HOT Texas Water Well Orliers Board P.O. Box 13087 Austin, Texas 78711 Figal eek to the Serting (ft.) 1937 Date F\* 929 100 10-23-8 Ogner. □ Driven
□ Bored 25% 6

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O 6.0 Hery
O Georg Chandles
O Georg Bradlierung 18 Renie Bones
(B) H Cantrell
(B) Hermas Cantrall
(B) Mike Wildes ATH L.
TEXAS
STATE DEMANDER OF HOMINES
AND PUBLIC TRANSPORTION
AND PUBLIC TRANSPORTION
THE PUBLIC TRAN GENERAL HIGHWAY MAP 1976

Birthright.

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TEXAS WATER COMMISSION COPY

WWD-012 (Rev 05-18-90)

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D Services	THOD (Drace):  Ar Harmon  Caple Too	5) DRILLARD METHOD (Shaces)  (2) Not Roday (2) Arthuron  (3) Ar Roday (2) Cades Too	De-Warening		a) PROPOSED USE (Check):  Domestic Drausala Decrease Director Director  a) Incator Director  a) Incator  a) PROPOSED USE (Check):  B) PROPOSED USE	3) TYPE OF WORK (Check):  2) New Wei
					5	SEE ATTACHED MAP 2
					rectable action or strong these	הפשעה אפיני, יסודים בישמעה ליבוש אפינים בישמעה אפינים בישמעה אפינים בישמעה אפינים בישמעה אפינים בישמעה אפינים

SUBMERSIBLE
DEPTH TO PUMP: 260

14) WELL TEST:

YIELD: LO GPM WITH UNK FT DRANDOWN AFTER 24 HRS

15) HATER QUALITY:
TYPE OF MATER:
NO STRATA OF UNDESIGNBLE WATER PENETRATED

COMPANY HAME: ASSOCIATED SERVICES
ADDRESS: P.O. 80X 16

WATER WELL DRILLER'S LICENSE NO.: 2404 CITY: STEPHENVILLE STATE: TX ZIP CODE: 76401

FOR TWC USE ONLY
WELL NO.
LOCATED ON MAP

NO CHEMICAL ANALYSIS MADE

I HEREBY CERTIFY THAT THIS WELL WAS DRILLED BY ME (OR UNDER MY SUPERVISION) AND THAT EACH AND ALL OF THE STATEMENTS MEREIN ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF. I UNDERSTAND THAT FAILURE TO COMPLETE ITEMS 1 THRU IS WILL RESULT IN THE LOG(S) BEING RETURNEY FOR COMPLETION AND RESUMMITYAL.

(signed)

(LICENSED PATER WELL DRILLER)

(signed)

(REGISTERED DRILLER TRAINEE)

FROM TO DESCRIPTION 0 1 TOP SOIL 1 5 RED CLAY 5 20 CALTCHE BROWN SAND 20 80 RRFY CLAY HAND SHALE 80 180 GREY CLAY HAND SHALE 180 200 SANDY CLAY AND SAND 200 285 SAND CLAY GRAVEL 295 295 RED BLUE GREY CLAY	CASCING, BLANK PIPE, AND MELL SCREEN DATA:  DIA MEM/USED DESCRIPTION  A N PARSTIC, BLANK 0 265  A N PLASTIC, SLOTTED 265 295  GEOLOGICAL DESCRIPTION:	State, LID code: STEPHENVILLE OF NORK: HEW WELL LUG: 00163   DIAMETER OF LULING: 04/19/95   5 3/4 0 LETED: 04/19/95	ATTENTION OWNER: Confidentiality  P-tyliams Notice on Reverse Side ADDRESS: 7741 CHILIDM 1] OWNER: FRAIRER RACHER 2] ADDRESS OF MELC: COUNTY: ERATH  STATE WELLE 51-47-8  Street or RFD: COLLEGE FARM RD.
225 FI  Method d  Distances  Distances  Distances  MESS  10) SMRFACE  SPEC. SI  11) WATER IC  ARTESIC  ARTESIC  12) PACKERS	SCH40 SCH40 SCH40 SCH50	re plans submi METHOO: ;	WELL REPORT CITY: HOUSTON
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sand original orboy by deschool mail to: Textes Water Corre-

State of Texas WELL REPORT

155

Procee use State int.
Term Water Wall Smilers Board
P.O. Box 13057
Austin, Term 78711

ADDRESS

(S264; 24 RFD)

g

(S=2.0)

ATTENTION OWNER: Confidentially Privilege Notice on Reviews Side

T OWNER

11178 ATTE

COURT MELL

Char mass temporal the legal execution below with distance and distances and the sacring section or survey lives, or the must detail and identity the well on an official Counter for that Source Testas Country Several Highway Mala and action the major that form.

(NE SH 02)



## **Groundwater Monitoring Plan**

Groundwater samples will be taken annually and submitted to a certified laboratory. Before samples are taken the wells shall be evacuated three well bore volumes.

Groundwater monitoring shall be sampled and analyzed from Site One monitor wells: MW-1, MW-2, MW-3, MW-4, and MW-5

Groundwater monitoring shall be sampled and analyzed from Site Two monitor wells: MW-1, MW-2, MW-3, MW-4, and MW-5

Constituents to be tested are:

Ammonia nitrate Nitrate Nitrite Total kjeldhal nitrogen (TKN) Chloride

Results are to be submitted to the TCEQ Water Quality Information Systems Team (MC-224), Groundwater Protection Team (MC-150), and Region 4 Office during September of each year.



## Pace Analytical ANALYTICAL REPORT

## Schreiber Foods Inc.

Sample Delivery Group:

L1525592

Samples Received:

08/16/2022

Project Number:

Description:

Annual GW

Report To:

Gary McCaffity

823 CR 176

Stephenville, TX 76401

Ss

Cn

Sr

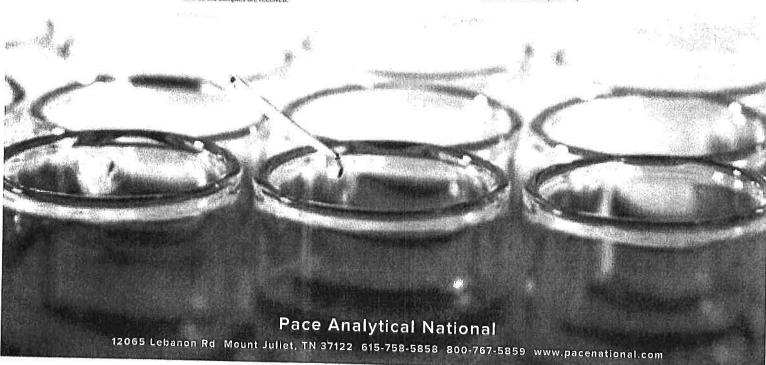
Qc

Gl

Entire Report Reviewed By:

T. Alan Harvill Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided,



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SITE 1 MW2 L1525592-02		6
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## SAMPLE SUMMARY

CITE AAAAAA LATOTTOO			Collected by	Collected date/time	Received d	late/time
SITE 1 MW1 L1525592-01 GW			Justin Grote	08/15/22 08:40	08/16/22 0	9:35
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		200011011
Calculated Results	WG1912190	1	08/25/22 21:31	08/25/22 21;31	LDT	Allen, TX
Wet Chemistry by Method 300.0	WG1912183	1	08/17/22 22:24	08/17/22 22:24	EIG	Allen, TX
Wet Chemistry by Method 351.2	WG1913125	1	08/25/22 08:19	08/25/22 21:31	LDT	Mt. Juliet, TA
Wet Chemistry by Method 353.2	WG1912190	1	08/17/22 16:22	08/17/22 16:22	EIG	
Wet Chemistry by Method SM4500NH3H	WG1916459	á	08/25/22 14:35	08/25/22 14:35	EIG	Allen, TX Allen, TX
					2.0	VIICH' IV
CITE 4 MANO 1 4505550 and a			Collected by	Collected date/time	Received da	ate/time
SITE 1 MW2 L1525592-02 GW			Justin Grote	08/15/22 08:55	08/16/22 09	9:35
Method	Balch	Dilution	Preparation	Analysis	Analyst	Location
Salandari I D II			date/time	date/time	·	
Calculated Results	WG1912190	1	08/25/22 21:33	08/25/22 21:33	LDT	Allen, TX
Vet Chemistry by Method 300.0	WG1912183	1	08/18/22 10:31	08/18/22 10:31	EIG	Allen, TX
Vet Chemistry by Method 351.2	WG1913125	1	08/25/22 08:19	08/25/22 21:33	LDT	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG1912190	2	08/17/22 16:35	08/17/22 16;35	EIG	Allen, TX
Vet Chemistry by Method SM4500NH3H	WG1916459	1	08/25/22 14:37	08/25/22 14:37	EIG	Allen, TX
CITE 4 MANAGE LAFOFFICE TO THE			Collected by	Collected date/time	Received da	ite/time
SITE 1 MW3 L1525592-03 GW			Justin Grote	08/15/22 09:05	08/16/22 09	:35
lethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
Shallar ID II			date/lime	date/time		
alculated Results	WG1912190	1	08/25/22 21:34	08/25/22 21:34	LDT	Allen, TX
/et Chemistry by Method 300.0	WG1912183	-1	08/18/22 10:50	08/18/22 10:50	EIG	Allen, TX
let Chemistry by Method 351.2	WG1913125	4	08/25/22 08:19	08/25/22 21:34	LDT	Mt. Juliet, TN
let Chemistry by Method 353.2	WG1912190	4	08/17/22 16:25	08/17/22 16:25	EIG	
et Chemistry by Method SM4500NH3H	WG1916459	1	08/25/22 14:38	08/25/22 14:38	EIG	Allen, TX Allen, TX
						7.11.011, 177
			Collected by	Collected date/time		L = 11:
NTE 1 MM/4 14505500 04 000			-	conceted date/time	Received dat	te/time
			Justin Grote	08/15/22 08:05	Received dat 08/16/22 09:	
	Batch	Dilution	-			35
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## CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Ss

Ср

Tc

T. Alan Harvill Project Manager

an Famill

## SITE 1 MW1

Ammonia Nitrogen

Collected date/time: 08/15/22 08:40

## SAMPLE RESULTS - 01

## Calculated Results

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution		Batch	
Nitrogen	3.43		0.0500	1	date / lime 08/25/2022 21:31	WG1912190	2.
Wet Chemistry by N	Method 300.0	)					3
	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>	
Analyte	mg/l		mg/l		date / time		Ī <sub>a</sub>
Chloride	204		0.800	1	08/17/2022 22:24	WG1912183	
Wet Chemistry by N	Method 351.2						5
	Result	Qualifier	RDL	Dilution	Analysis	Batch	———— <b>l</b>
Analyte	mg/l		mg/l		date / time		6
Kjeldahl Nitrogen, TKN	ND		0.250	1	08/25/2022 21:31	WG1913125	
Sample Narrative:							7
L1525592-01 WG1913125; Dilu	ution due to NO3 hit.						<u></u>
Wet Chemistry by N	Method 353.2						<sup>8</sup> A
	Result	Qualifier	RDL	Dilution	Analysis	Batch	9
Analyte	mg/l		mg/l		date / time	) <del></del>	
Nitrate-Nitrite	3.43		0.0500	1	08/17/2022 16:22	WG1912190	,
Wet Chemistry by N	lethod SM450	HEHNOC					
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		

date / time

08/25/2022 14:35

WG1916459

ND

mg/l

0.100

1

SITE 1 MW2 Collected date/time: 08/15/22 08:55

## SAMPLE RESULTS - 02

## Calculated Results

									Name and Address of
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis	Batch		-	Ср
Nitrogen	5.76		0.100	1	date / time	Motototee			2
			0.100	'	08/25/2022 21:33	WG1912190			Tc
Wet Chemistry by N	Method 300.0	)							3
	Result	Qualifier	RDL	Dilution	Analysis	Batch	- Walter Williams		³Ss
Analyte	mg//		mg/l		date / time	3 4 4 1			
Chloride	884		0.800	1	08/18/2022 10:31	WG1912183			<sup>†</sup> Cn
Wet Chemistry by N	Nothad 2E1 2								8
Tret chemistry by iv									<sup>5</sup> Sr
Amal, 4-	Result	Qualifier	RDL	Dilution	Analysis	Batch			
Analyte	mg/l		mg/l		date / time				6 Qc
Kjeldahl Nitrogen, TKN	ND		0.250	16	08/25/2022 21:33	WG1913125			L
Wet Chemistry by M	lethod 353.2								<sup>7</sup> GI
	Result	Qualifier	RDL	Dilution	Analysis	Batch			_
Analyte	mg/l		mg/l		date / time	Batch			8 Al
Nitrate-Nitrite	5.52	<u>J6</u>	0.100	2	08/17/2022 16:35	WG1912190	2.5		
Wet Chemistry by M	ethod SM450	DONH3H							<sup>9</sup> Sc
	Result	Qualifier	RDL	Diletter					-
Analyte	mg/l	<u>Anninel</u>	mg/l	Dilution	Analysis	<u>Batch</u>			
Ammonia Nitrogen	ND		0.100	1	date / time	2			
-			0.100	ı	08/25/2022 14:37	WG1916459			

SITE 1 MW3

Analyte

Nitrogen

SAMPLE RESULTS - 03

L1525592

Calculated Results

Collected date/time: 08/15/22 09:05

Result Qualifier RDL Dilution Analysis Batch mg/l mg/l date / time

08/25/2022 21:34

WG1912190

Wet Chemistry by Method 300.0

1.89

Result Qualifier RDL Dilution Analysis Batch Analyte mg/l mg/l date / lime Chloride 315 0.800 08/18/2022 10:50 WG1912183

0.0500

Ср

Tc

Ss

Cn

Sr

Q¢

GI

ΑI

Sc

Wet Chemistry by Method 351.2

Result Qualifier RDL Dilution Analysis Batch Analyte mg/l mg/l date / time Kjeldahl Nitrogen, TKN ND 0.250 08/25/2022 21:34 WG1913125

Wet Chemistry by Method 353.2

Result Qualifler RDL Dilution Analysis Batch Analyte mg/l mg/l date / time Nitrate-Nitrite 1.89 0.0500 1 08/17/2022 16:25 WG1912190

Wet Chemistry by Method SM4500NH3H

Result Qualifier RDL Dilution Analysis Batch Analyte mg/l mg/l date / time Ammonia Nitrogen ND 0.100 08/25/2022 14:38 WG1916459

## SITE 1 MW4

Collected date/lime: 08/15/22 08:05

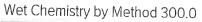
## SAMPLE RESULTS - 04

L1525592

## Calculated Results

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Nitrogen	7.90		0.100	1	08/25/2022 21:36	WG1912190	





	Result	Qualifier	RDL	Dilution	Analysis	Batch	<del>-</del>	ı
Analyte	mg/l		mg/l		date / lime	Batch		
Chloride	1540		0.800	1	08/18/2022 11:10	WG1912183		ľ



## Wet Chemistry by Method 351.2

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	-//2001/	•	Datell	
Violdahl Nikasasa TKN			mgn		date / time		
Kjeldahl Nitrogen, TKN	ND		0.500	2	08/25/2022 21:36	WG1913125	
Sample Narrative:							



L1525592-04 WG1913125: Dilution due to NO3 hit.



## Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrale-Nitrite	7.48	¥:	0.100	2	08/17/2022 16:36	WG1912190



## Wet Chemistry by Method SM4500NH3H

	Danis	0. 110					
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Ammonia Nitrogen	ND		0.100	1	08/25/2022 14:40	WG1916459	

## SITE 1 MW5 Collected date/time: 08/15/22 08:20

Ammonia Nitrogen

ND

0.100

1

08/25/2022 14:41

WG1916459

## SAMPLE RESULTS - 05

Calculated D

Calculated Results								
Accel	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	mg/l		mg/l		date / time			
Nitrogen	0.471		0.0500	1	08/25/2022 21:37	WG1912190		10
Wet Chemistry by Me	ethod 300.0	1						
	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	mg/l		mg/l		date / time	93.011		
Chloride	61.6		0.800	1	08/17/2022 23:43	WG1912183		
Wet Chemistry by Me	thod 351.2							
	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	mg/l		mg/l		date / lime			
Kjeldahl Nitrogen, TKN	ND		0.250	1	08/25/2022 21:37	WG1913125		
Wet Chemistry by Me	thod 353.2							
	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	mg/I		mg/l		date / time			
Nitrate-Nitrite	0,471		0.0500	1	08/17/2022 16:27	WG1912190	2.0	
Wet Chemistry by Me	thod SM450	ООИНЗН						
	Result	Qualifier	RDL	Dilution	Analysis	Batch		-
Analyte	mg/l	-	mg/l		date / time		Q.	
Ammonia Nitrogon	ND				· ····-			

WG1912183
Wet Chemistry by Method 300.0

# QUALITY CONTROL SUMMARY

Method Blank (MB)

Analyte Chloride		(MB) R3827
mg/1 U	MB Result	(MB) R3827801-1 08/17/22 18:26
	MB Qualifier	
mg/l 0.0541	M8 MDL	
mg/l 0.800	MB RDL	

00,228

9

Chloride	Analyte		(LCS) R38278	Laborator
5.00	mg/l	Spike Amount LCS Result	(LCS) R3827801-2 08/17/22 18:45	Laboratory Control Sample (LCS)
5_14	mg/l	LCS Result		CS)
103		LCS Rec.		
90.0-110	<u>%</u>	Rec. Limits		
		LCS Qualifier		
1) 1) 1)				
W.				
1				
, A.				
STATE OF THE STATE				

	Analyte Chloride	-	(OS) L1523791-01 08/17/22 20:25 • (MS) R3827801-3 08/17/22 19:05 • (MSD) R3827801-4 08/17/22 19:25	L1523791-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)
			1 08/1	Orio
	_,1_		7/22 2	ginal
	10.0 mg/l	Spike Amount	20:25 - (MS)	Sample
	mg/l 18.4	Spike Amount Original Result MS Result	R3827801-3	(OS) · Ma
	mg/I 29.5	ult MS Result	08/17/22 19:05	trix Spike (N
	mg/l 29.5	MSD Result	· (MSD) R3827	MS) • Matrix
	110	MS Rec.	801-4 08/17/22	Spike Dup
	111 %	MSD Rec.	19:25	olicate (MS
	-	Dilution Rec. Limit		(D
	% 90.0-110	l/i		
	Ĭ	MS Qualifier		
	<u>7</u> 5	MS Qualifier MSD Qualifier		
	0.144	RPD		
	1			
	20	RPD Limits		
10	1	_	_	i torre

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SS

WG1913125
Wet Chemistry by Method 351.2

# QUALITY CONTROL SUMMARY

Method Blank (MB)

	The second secon		1 90.0-110	97.8	6.16	1.27	S.00	Kjeldahi Nitrogen, IKN
		mo wooilliet	1		mg/l			Analyte
		MS Ougliffer	Dilution Rec Limits	21:52 MS Rec	23830634-7 08/25/22 2 Original Result MS Result	2 21:49 • (MS) R3830 Spike Amount Origin	08/25/22 21:4 Spike	(O3) L1326365-01 08/25/22 21:49 · (MS) R3830634-7 08/25/22 21:52 Spike Amount Original Result MS Result
				e (MS)	• Matrix Spik	ample (OS)	Original Sa	L1526366-01 Original Sample (OS) - Matrix Spike (MS)
	<u>5</u> 6 8 20 1.53 20	90.0-110	93.4 89.4	13.0	13.2	-	ă	Kjeldahi Nitrogen, TKN
	D	: Dilution	MS Rec.	1.43 * (MSD) R30 t	Original Result MS Result ma/l	Spike Amount Origin	Spike mg/l	Analyte
	š	(MSD)	trix Spike Duplicate (MSD)	e (MS) - Ma	· Matrix Spik	ample (OS)	Original S	L1526346-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike
		£	8 9 0	75.2-120	94.5			Kjeldahl Nitrogen, TKN
			LCS Qualifier	Rec. Limits %	Result LCS Rec. %	Spike Amount LCS Result mg/l mg/l	Spike mg/l	Analyte
						nple (LCS)	Control San 2 08/25/22 21	Laboratory Control Sample (LCS) (LCS) R3830634-2 08/25/22 21:29
00								
)			% 20	15 % 3		mg/l	mg/l KN 1.27	Analyte Kjeldahl Nitrogen, TKN
			DUP Qualifier Limits	DUP RPD	Result Dilution	Original Result DUP Result	Orig	
<u>0</u>				22 21:50	(OS) L1526366-01 08/25/22 21:49 · (DUP) R3830634-6 08/25/22 21:50	:49 · (DUP) R38	01 08/25/22 21	(OS) L1526366-0
(QC				(DUP)	L1526366-01 Original Sample (OS) • Duplicate (DUP)	sample (OS	1 Original S	L1526366-C
<u> </u>			20 %	1.89	*	8.37	TKN 8.53	Kjeldahl Nitrogen, TKN
, ()			DUP Qualifier Limits		Result Dilution	inal Result	Orig	Anakto
C)			88	22 21:44	130634-3 08/25/22 21:44	1:40 · (DUP) R38	01 08/25/22 21	(OS) L1526346-01 08/25/22 21:40 · (DUP) R3830634-3
				(DUP)	L1526346-01 Original Sample (OS) - Duplicate (DUP)	Sample (OS	)1 Original S	L1526346-0
ς n								
0022	The second section of the second section of the second section of the second section s			mg/l 0.250	mg/l 0.140	//	mg/l	Analyte Kjeldahl Nitrogen, TKN
9 -				L MB ROL	MB Qualifier MB MDL	sult	MB	(MB) K3630634-1 08/25/22 21:2/ MB Re
						4	1 00/05/00 01	MD DOODGO

Schreiber Foods Inc. ACCOUNT:

PROJECT:

L1525592 SDG:

08/30/22 16:06 DATE/TIME:

11 of 18 PAGE

## WG1912190

Wet Chemistry by Method 353.2

## QUALITY CONTROL SUMMARY L1525592-01,02,03,04,05

Method Blank (MB)

(OS) L1525592-02 08/17/22 16:35 · (MS) R3827599-5 08/17/22 16:30 · (MSD) R3827599-6 08/17/22 16:34 L1525592-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) Nitrate-Nitrite Analyte (OS) L1525592-01 08/17/22 16:22 • (MS) R3827599-3 08/17/22 16:28 • (MSD) R3827599-4 08/17/22 16:29 (LCS) R3827599-2 08/17/22 16:08 Analyte L1525592-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) Nitrate-Nitrite Analyte Laboratory Control Sample (LCS) Nitrate-Nitrite (MB) R3827599-1 08/17/22 16:07 mg/l 2.50 2.50 ng/l Spike Amount Original Result MS Result Spike Amount LCS Result MB Result mg/I 3.43 mg/l 2.52 MB Qualifier mg/I 5.81 ₫ % 0.0300 MB MDL LCS Rec. mg/l % 5.82 95.2 MSD Result 90.0-170 0.0500 mg/l MB RDL Rec. Limits MS Rec. LCS Qualifier % MSD Rec. Dilution Rec. Limits 90.0-110 MS Qualifier Im MSD Qualifier RPD 0.172 % 20 RPD Limits Ś ಸ್ಕ  $\triangleright$ <u>G</u> Qc S SS 00230 0

Nitrate-Nitrite

2.50

mg/l mg/l 5.52 7.62

mg/l

Spike Amount Original Result MS Result

MSD Result

MS Rec.

MSD Rec.

Dilution

Rec. Limits

MS Qualifier

MSD Qualifier

RPD

RPD Limits

90.0-110

19

16

20

84.0

%

WG1916459
Wet Chemistry by Method SM4500NH3H

# QUALITY CONTROL SUMMARY

Method Blank (MB)

Method Blank (MB)	8)				)
	MB Result MB Qualifier MB MDL MB RDL				1
Analyte Ammonia Nitrogen	mg/l mg/l mg/l 0.0280 0.100	3000 Ja - 5000		** ** ** ** ** ** ** ** ** ** ** ** **	0023
Laboratory Control Sample (LCS)	ol Sample (LCS)				SS S
(LCS) R3831029-2 08/25/22 14:20	5/22 14:20				I C C
Analyte	Spike Amount LCS Result LCS Rec. Rec. Limits LCS Qualiffer				υ, l
Ammonia Nitrogen	5.10 102	3	4		ζ
L1525387-01 Origir	L1525387-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)				ိုထင
(OS) L1525387-01 08/25/:	(OS) L1525387-01 08/25/22 14:31 · (MS) R3831029-3 08/25/22 14:21 · (MSD) R3831029-4 08/25/22 14:22  Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. Limits MS	MS Qualifier MSD Qualifier	fier RPD	R BD I imits	<u> </u>
Analyte Ammonia Nitrogen	% 1 80.0-120			20	$\supseteq^{\omega}$
L1525592-01 Origin	L1525592-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)				် လို
(OS) L15 25592-01 08/25/	(OS) L1525592-01 08/25/22 14:35 • (MS) R3831029-5 08/25/22 14:24 • (MSD) R3831029-6 08/25/22 14:25  Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. I imits MS (	MS Ouslition MSD Ouslition			£
Analyte Ammonia Nitrogen	% 1 80.0-120			% %	

## GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Ss

Cn

Sr

## Abbreviations and Definitions

Qualifier

Result

Uncertainty

Case Narrative (Cn)

Quality Control

Sample Chain of Custody (Sc)

Sample Results (Sr)

Sample Summary (Ss)

Summary (Qc)

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
J	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.



These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or Limits duplicated within these ranges.



The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control Original Sample sample. The Original Sample may not be included within the reported SDG.

Sc

This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.

The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Matthed Detectable Levels). (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect

or report for this analyte Confidence level of 2 sigma. (Radiochemistry)

A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.

This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.

This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.

This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J5 J6	The sample matrix interfered with the ability to make any accurate determination; spike value is high.  The sample matrix interfered with the ability to make any accurate determination; spike value is low.

## ACCREDITATIONS & LOCATIONS

Ababana         40660         Nebraska         NE-OS-15-05           Alaska         17-026         Nevada         TM000032021-1           Artzona         AZ0612         New Hampshire         2975           Artzona         88-0459         New Mexico*         TM00003           Collidronia         2932         New Mexico*         TM00003           Coliozdo         7M00003         New Mexico*         1742           Connecticul         PH-0197         North Carolina         em-375           Fiorida         E87487         North Carolina         em-377           Georgia         NELP         North Carolina         41           Georgia         North Carolina         41           Georgia         New Jersey-MELAP         21           Idaha         TM00003         North Carolina         41           Georgia         North Carolina         41         42           Georgia         NELP         CL0659         14           Illinois         200008         Olda-Ora         74           Kortucky         36         Pennsylvaria         68-02279           Kentucky         4         75         74           Kentucky         5	Pace Analytical National	12065 Lebanon Rd Mount Juliet, T	N 37122	
Alaska         17-Q26         Nevada         TN00003/201-1           Arbrana         AZ0612         New Hampshire         2975           Arkransas         88-0459         New Mexico ¹         TN00003           Colifornia         2932         New Mexico ¹         TN00003           Colorado         TN00003         New York         11742           Connecticul         PH-1917         North Carolina ¹         0W27704           Georgia         NELAP         North Carolina ³         41           Georgia 1         NELAP         North Carolina ³         41           Georgia 2         NEW North Carolina ³         41           Idaho         TN00003         North Carolina ³         41           Idaho         PR.00003         North Carolina ³         4	Alabama			NE OS 15 OS
Artzona         AZD612         New Hampshire         2975           Arkansas         88-0459         New Jersey-NICLAP         TN002           Callifornia         2932         New Mexko¹         TN0003           Colorado         TN00003         New Mexko¹         TN00003           Colorado         TN00003         New York         1742           Connecticul         PH-0197         North Carolina¹         Env375           Florida         E87487         North Carolina¹         Mr           Georgia         NELAP         North Carolina¹         41           Georgia¹         923         North Carolina²         41           Idaho         TN00003         Olho-VAP         CL069           Illinois         200008         Oldahoma         9915           Indiana         C-TN-01         Oregon         TN200002           Iowa         A64         Pennsylvania         68-02979           Kentucky¹*         Ky9010         South Carolina         80-02979           Kentucky²*         If         South Carolina         A004002           Kentucky²*         If         South Carolina         A004002           Kentucky²*         If         South Carolina	Alaska	17-026		
Afkansas         88-0469         New Jersey-NELAP         TN002           California         2932         New Mexito 1         TN00003           Colorado         TN00003         New Mexito 1         TN00003           Colorado         TN00003         New York         11742           Connecticul         PH-0197         North Carolina         Env375           Florida         E87-87         North Carolina 3         41           Georgia         NELAP         North Carolina 3         41           Georgia 1         923         North Carolina 3         41           Idaho         TN00003         Ohlo-VAP         CL0069           Illinots         200008         Ohlo-VAP         CL0069           Indiana         C-TN-C1         Oregon         TN200002           Iowa         364         Pennsylvania         68-02979           Kansas         E10277         Rhode Island         LA0003356           Kentucky 16         KY90010         South Carolina         84004002           Kentucky 2         16         South Dakota         n/a           Louislana         LA018         Tenassee 14         2006           Louislana         LA018         Texas 5	Arlzona	AZ0612		
California         2932         New Mexico 1         TN00003           Colorado         TN00003         New York         11742           Connecticul         PH-0197         North Carolina 1         DW21704           Georgia         REAPR         North Carolina 3         41           Georgia 1         NELAP         North Carolina 3         41           Georgia 2         NELAP         North Carolina 3         41           Idaho         TN00003         North Dakota         R-40           Idaho         TN00003         Ohlo-VAP         CL0069           Illinols         200008         Oklahoma         9915           Indiana         C-TN-01         Oregon         TN200002           Kansas         E-10277         Rhode Island         LA000356           Kentucky 14         Ky9010         South Carolina         84004002           Kentucky 2         16         South Carolina         84004002           Kentucky 3         16         South Carolina         84004002           Kentucky 4         Ky9010         South Carolina         84004002           Kentucky 14         Ky9010         South Carolina         84004002           Kentucky 14         Ky9010	Arkansas	88-0469	-	
Colorado         TN00003         New York         11742           Connecticul         PH-0197         North Carolina         Env375           Florida         E87487         North Carolina 1         DW21704           Georgia         NELAP         North Carolina 3         41           Georgia 1         10000003         North Dakota         R-140           Idaho         17000003         Ohlo-WAP         CL0069           Illinols         200008         Oklahoma         9915           Indiana         C-1N-01         Oregon         TN200002           Iowa         364         Pennsylvania         68-02979           Kansas         E-10277         Rhode Island         LA000356           Kentucky 16         Ky90010         South Carolina         84004002           Kentucky 2         16         South Dakota         n/a           Loulslana         JA018         Texas         104704245-20-18           Maine         TN00003         Texas 5         LAB0152           Maryland         324         Uth         TN000032021-11           Massachusetts         M-1N003         Vermont         V72006           Michigan         9958         Virginia <t< td=""><td>California</td><td>2932</td><td>•</td><td>and the second second</td></t<>	California	2932	•	and the second second
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Pace Analytical Services, LLC -Dallas 400 W. Be	ethany Drive Suite 190 Allen, TX 75013
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FIORIDA	E871118	Texas	T104704232-22-37
lowa	408	Oklahoma	
Louislana	30686	Okidiloma	8727

<sup>&</sup>lt;sup>1</sup> Ortnking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aqualic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable



















<sup>\*</sup> Not all certifications held by the laboratory are applicable to the results reported in the attached report.

<sup>\*</sup> Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

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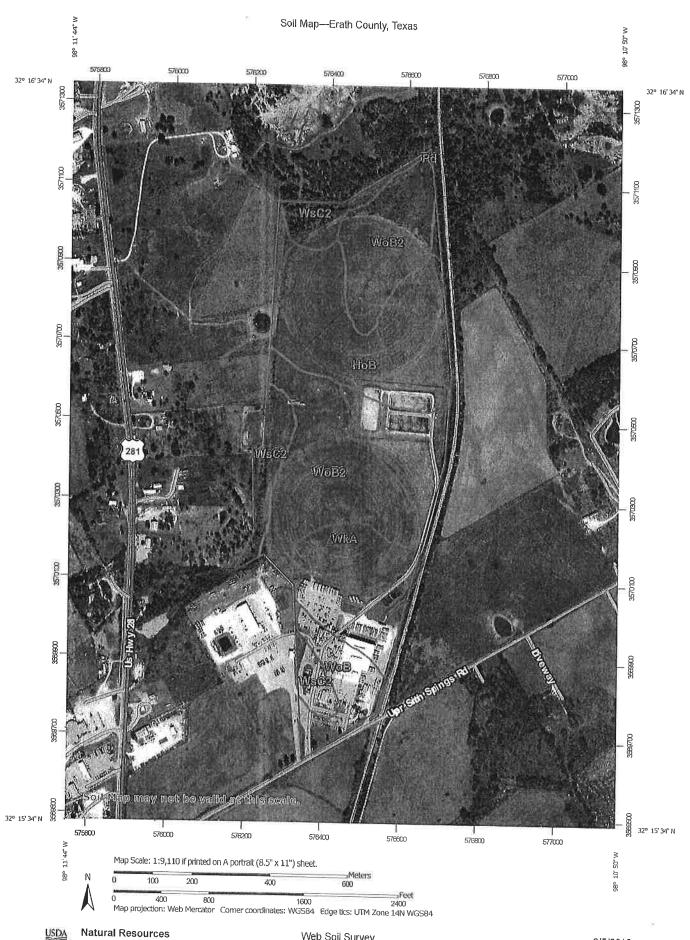
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# Temperature should be above freezing to 6 C units s collected an	me day as receipt in which evidence of cooling is acceptable.
Triage Person AF Date 8/16/2"	
Chain of Custody relinquished	Yes / No st
Sampler name & signature on COC	Yes No to
Short HT analyses (<72 hrs)	Yes i No /
Login Parson Date. Sufficient Volume received	Tyes / No a
Correct Container used	Yes / No c
Container Intact	Yes / No. tt
Sample pH Acceptable pH Strips: CILWS Residual Chlorine Present G Strips: Sufride Present Lead Accetate Strips:	Yes D No D NA / Yes D No D NA /
Are soil samples (volutiles, TPH), received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes a No a NA y
Unpreserved 5035A soil frozen within 48 hrs	Yes a No a MA /
Headspace in VOA (>6mm)	Yes in No in NA
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Non-Conformance(s)	Yes a No m
Tachio Carlos and the	

## ATTACHMENT 7 - SOILS INFORMATION

## 7.1 Soil Features

Soil mapping units included in this section for the production area and waste disposal area was taken from the electronic NRCS soil survey for Erath County. Soils descriptions are included in the supporting documentation and were taken from the most current version of the NRCS electronic soil information database for Erath County as obtained from the NRCS Soil Data Mart.



## MAP LEGEND

## Soils Area of Interest (AOI) Special Point Features Soil Map Unit Points Soil Map Unit Lines Soil Map Unit Polygons Area of Interest (AOI) 1 8 ×3 Œ. Other Special Line Features Wet Spot Very Stony Spot Stony Spot Spoil Area

Borrow Pit Blowout Water Features

Clay Spot

‡

Rails

US Routes

Interstate Highways

Transportation

Streams and Canals

Gravel Pit Closed Depression

0 Landfill Gravelly Spot

44 × 0

Lava Flow

Background

Local Roads Major Roads

Aerial Photography

X) ( Mine or Quarry Marsh or swamp

0 Perennial Water 0

Miscellaneous Water

¢ Rack Outcrop

Saline Spot

Sandy Spot

() Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale

contrasting soils that could have been shown at a more detailed misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of Enlargement of maps beyond the scale of mapping can cause

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Coordinate System: Web Mercator (EPSG:3857) Web Soil Survey URL:

projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Maps from the Web Soil Survey are based on the Web Mercator accurate calculations of distance or area are required. Albers equal-area conic projection, should be used if more

of the version date(s) listed below. This product is generated from the USDA-NRCS certified data as

Survey Area Data: Version 14, Nov 7, 2017 Soil Survey Area: Erath County, Texas

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 17, 2015—Dec 13, 2017

shifting of map unit boundaries may be evident. compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor The orthophoto or other base map on which the soil lines were

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
НоВ	Slidell clay, 1 to 3 percent slopes	34.2	25.4%
Pd	Purves-Dugout complex	0.1	0.1%
WkA	Hassee fine sandy loam, thick surface, 0 to 2 percent slopes	31.6	23.4%
WoB	Windthorst very fine sandy loam, 1 to 3 percent slopes	10.1	7.5%
WoB2	Windthorst fine sandy loam, 1 to 5 percent slopes, eroded	44.2	32.8%
WsC2	Windthorst fine sandy loam, 3 to 8 percent slopes, eroded	14.6	10.8%
Totals for Area of Interest	1	134.9	100.0%

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SCHREIBER SOIL/

4/4/22

## SOIL ANALYSIS REPORT

3404 AIRWAY BLVD AMARILLO TX 79118 **ENVIRO-AG ENGINEERING INC** 

			NEUTR	WILLIAM IN	NEUTRAL AMMONIUM ACETATE/EYCHANGEARICI	CENBIEL								
_	ORGANIC	PHOSPHORUS	POTASSIUM MAGNESIUM	MAGNESIUM	CALCIUM	SODIUM	На		CATION	PERCENT	BASE S	BASE SATURATION	COM	(COMPLITED)
*305*	FOIT EX	(WEAIC BRAY) (STRONG BRAY) ICP	*	Мg	Ç	N N	PH II	BUFFER C	CAPACITY	⊼%	Mig %	ი %	π%	Na %
	percent RATE	ppm RATE ppm RATE ppm RATE	TE ppm RATE	ppm RATE	E ppm RATE	ppm RATE	1.2 Soll:Water	914	meq/100g					
65299 N PVT FSL	2.2 L	540	532 VH	393 VH	393 VH 2437 M	1397 VH	8		22 9	Ω )	1/1/2	N N		28 2
65300 N PVT FSL	0.8 VL	23	608 VH	384 VH 2238	2238	207	٥ د د		) ŭ	ກ ( ວ (	0 0	2 (		
65301 N DVT ESI	7 7	3	3 (	0 (0 .	1000	) (		_	NO.0	Ņ	Ö	44.9	0.0	30.1
	- 7 1 C		SSOVE	M 697	W 7697	77 19 AH	4.0	<u></u>	26.1	3.2	∞ ω	51.6	0.0	36.9
OFFICE N PV I CLAY	1.3 VL	69	H/8/4	354 VH 1590	1590 L	2051 VH		~	21.3	0	.∞	37.3	0.0	41.9
OBSUS IN PVI CLAY	7.7	196	610 VH	454 VH	2278 L	1590 VH	Ω	<u></u>	23.7	ກ	0	48 2	0	29 2
65304 N PVT CLAY	1.2 \\\	24	370 VH	264 M	2366	2620 VH	သ ဘ	_	α Δ	n N	ی ر	2 2 2	) ) )	7 1
65305 OUTSDPVT FSL	2.0 [	364	286 VH	201 H	T	325 VH	7.9		л	ά	0	75.7		o (
65306 OUTSDPVT FSL	1.3 ∖_	23	243 VH	229 H	2940 н	$\infty$	7.9		л Эл (		ب د	70.1		7.0
65307 OUTSDPVT FSL	1.2 VL	12	178 M	244 M	3931 н	4	7 9	<u>.</u>	3	1 ( 0 -	_	0 .0		0 .
65308 OUTSDPVT CLY	2.6 ≰	125	187 н	150 M	M 3139 VH	97 M	7.7	<u> </u>	101		ر 1. د	07.0		0 0
AV	N	HTDATE NI ZEIA								7:1	-	0.0	9.0	1:1
NIIMRED SUBSACE		(FIX)			SULFUR		MANGANESE	IRON	COPPER	PER	BORON	EXCENS	SOLUBLE	50
		CIRCO T				/ 7		1			6		A	100

SUBSOIL 2 Total 1 LAP PRIM PRIM PRIM PRIM PRIM PRIM PRIM PRI	SURFACE   SUBSOIL   SUBSOIL   SULFUR   SINGER   SUNTRATE   SUBSOIL   SULFUR   SINGER   SING	Surface   Surf	Surface   Surf	*395* *395* 65299 65300 65301 65302 65303 65304	JMBER 395*
SUBSOIL   SUBSOIL   SUBSOIL   SULFUR   SING   SIN	SUBSOIL   SUBSOIL   SUBSOIL   SULFUR   SULFUR   SUNC   MANGAN	Substantial	SULFUR   SUBSOIL 2   SULFUR   SULFUR   SUNC   MANGANESE   IRON   COPPE   SUBSOIL 2   S   S   S   Min   Fe   Cu   Min   Min	ο 4 ω ω το ω το	
SUBSOIL   SUBSOIL   SUBSOIL   SULFUR   SING   SIN	SUBSOIL   SUBSOIL   SUBSOIL   SULFUR   SULFUR   SUNC   MANGAN	Substantial	SULFUR   SUBSOIL 2   SULFUR   SULFUR   SUNC   MANGANESE   IRON   COPPE   SUBSOIL 2   S   S   S   Min   Fe   Cu   Min   Min	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SURFAC
SUBSOIL   SUBSOIL   SUBSOIL   SULFUR   ZIN   SUBSOIL   SUBSOIL   SULFUR   ZIN   SUBSOIL   SUBSOIL   SULFUR   ZIN   SUBSOIL	SUBSOIL   SUBSOIL   SUBSOIL   SULFUR   SINC   MANGAN	SULFUR   S	SUBSOIL   SUBS	depth (fm) (m) (m) (m) (m) (m) (m) (m) (m) (m) (	- 100
SUBSOIL 2	SUBSOIL 2   SUB-FUR   ZINC   MANGAN	SULFUR   S	SUBSOIL 2   SULTUR   ZINC   MANGANESE   IRON   COPPE	ppp	z
SUBSOIL 2 Total 1 LAP PRIM PRIM PRIM PRIM PRIM PRIM PRIM PRI	SUBSOIL 2   SUB-FUR   ZINC   MANGAN	SULFUR   S	SUBSOIL 2   SULTUR   ZINC   MANGANESE   IRON   COPPI	ibs/A	SUBSOIL
SULEUR   ZIN   Z	SULFUR   SULFUR   SULFUR   SULFUR   SULFUR   SURSON   S	SUBSOIL 2   SUBSOIL 2   SUBSOIL 2   SUBSOIL 2   S Zn Min Fe	SULFUR   SULFUR   SUNC   MANGANESE   IRON   COPPIE	depth (in)	depth
SULEUR ZIN   SIN	SULFUR ZINC MANGAN  total 16AP DITTA Min  depth 165/A ppm RATE ppm RATE ppm  16 180 VH  114 71 VH  111 92 VH  5 63 VH  18 160 VH  111 161 VH  111 35 VH  7 21 H  7 75 VH  14 82 VH	SULFUR ZINC MANGANESE IRON  s Zn Min Fe Zn Min	SULFUR   ZINC   MANGANESE   IRON   COPPI	Pen	
SULEUR ZIN   SIN	SULEUR ZINC MANGAN  total 16AP DITTA Min  depth 165/A ppm RATE ppm RATE ppm  16 180 VH  114 71 VH  111 92 VH  5 63 VH  18 160 VH  111 161 VH  111 35 VH  7 21 H  7 75 VH  14 82 VH	SULFUR ZINC MANGANESE IRON  Total 1 10.79  depth 1b5/A ppm. RATE ppm RATE ppm RATE ppm  16 180 VH  11 92 VH  5 63 VH  11 161 VH  11 35 VH  11 35 VH  7 21 H 7 75 VH  14 82 VH	SULFUR   ZINC   MANGANESE   IRON   COPPI	lbs/A	SUBSOIL
SULFUR ZIN	SULFUR ZINC MANGAN  S ZA MA  S DTTAN   SULFUR ZINC   MANGANESE   IRON   S	SULFUR   ZINC   MANGANESE   IRON   COPPI   S	*5.71(5)		
SULFUR ZIN S	SULFUR ZINC MANGAN  S Zn Min  S DTTA DTTA  PPM RATE PPM RATE PPM  180 VH  71 VH  92 VH  63 VH  161 VH  161 VH  161 VH  21 H  75 VH  82 VH	SULFUR ZINC MANGANESE IRON S Zn Min Fe Min Fe DITTA DI	SULFUR ZINC MANGANESE IRON COPPI S Zn Min Fe Cu Min Fe Cu DITA DITA DITA DITA DITA 180 VH 71 VH 92 VH 63 VH 160 VH 161 VH 150 VH 175 VH 82 VH	Tot Ibs	Total lbs/A
25 Z	NC MANGAN DA MA DA DIPA RATE ppm	NC MANGANESE IRON IN Min Fe DIPA DIPA  RATE ppm RATE ppm	NC MANGANESE IRON COPPE IN Min Fe Cu DIPA DIPA DIPA DIPA RATE PPM RATE PPM RATE PPM	044081	
	MANGAN Min DTPA ppm	MANGANESE IRON Min Fe DIPA DIPA PPM RATE PPM	MANGANESE IRON COPPI Min Fe Cu DIPA DIPA DIPA PIRM RATE ppm RATE ppm	1 180 180 180 180 180 180 180 180 180 18	icy) S STE
ON COPPI	PPER BORGO B SORD. I PATE PATE	, m 20		S   Zn   Min   Fe   Cu   B   RATE   ppm   RATE   ppm	SULFUR ZINC MANGANESE IRON COPPER  S Zn Min Fe Cu ICAP DITA DITA DITA DITA DITA
ON COPPER BORGE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PPER BORON CASE OF B SORE DITES  RATE PART RATE  M  M  M  M  M  M  M  M  M  M  M  M  M	RATE M M ME MAN		S   Zn   Min   Fe   Cu   B   Min   Fe   Fe   Fe   Fe   Fe   Fe   Fe   F	SULFUR ZINC MANGANESE IRON COPPER BORON MISSES S Zn Min Fe Cu 8 ANTE OTPA DTPA SORS.DTPA ANTE

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3404 AIRWAY BLVD AMARILLO TX 79118

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## **SOIL ANALYSIS REPORT**

LAB	SAMPLE	ORGANIC	PH	PHOSPHORUS		POTASSIUM	POTASSIUM MAGNESIUM CALCIUM SOD	M CALCIUM	SODIUM SODIUM		E	CATION	DEDCENT	DACE CAT			
NUMBER	IDENTIFICATION	MATTER LOL	P P P P P P P P P P P P P P P P P P P	15 63 61 -10	MENTON III	*	Мд	S I	377	문 Sel	NDEX	CAPACITY	× %	% % % %	0 %	" (COMPOSED)	, & C
0000	-		ppm RATE		ppm RATE	ppm RATE	ppm RATE	ppm	RATE ppm RATE	io.	10	meq/100g				ville.	
65309	65309 OUTSDANT CLY	1.5 ∠		(6)	40	181 M		185 M 3734 VH	н 130 н	- 10.4		21.2	2.2	7.3 8	87.8	0.0 2.	7
65310	65310 OUTSDPVT CLY	1.6	X CI	¥11	30	204 M	248 M	248 M 4538 VH	н 184∨н	7.9		26.1	2.0	7.9 8	87.0	0.0 3.1	
65311 S PIVOT		2.2		0	836	369 VH	302 VF	302 VH 2053 M 102	1 1023 үн	9.1		18.2	5.2	13.8	56.6	0.0 24.4	4
65312 S PIVOT	S PIVOT	1.1 ½	y f		42	504 VH	332 VF	332 VH 2032 L	1550 VH	9.1		21.0	6.2	13.2 4	48.5	0.0 32.1	<u></u>
65313 S PIVOT		1.0 VL			28	387 VH	239 M	2284 M	1985 ун	9.1		23.0	4.3	8.7 4	49.5	0.0 37.5	σı
LA8		N	NITRATE-N (FIA)	FIA)				SULFUR	ZINC M/	MANGANESE	IRON	co	COPPER	BORON	-1 I	SOLUBLE	
NOWBER	SURFACE		SUBSOIL1		SUBSOIL 2	11.2		S	Zh	Mn	æ		4	80	PARE	SALTS	-
*395*	lbs/A	th ppm	fbs/A	depth (in) ppm	m lbs/A	depth (in)	lbs/A	ppm RATE	RATE	ppm RATE	ppm R	RATE ppm	EPA RATE	SORB. DTPA		1 Soli2 Wine mmhos/ cm RATE	T.
80209	5 6-18	α		9			18	18 M		- (3)	- 1		- 1	- 4	≤	Oil	
65310	8 29 18-30	30					29	14 99					Ų.		<u> </u>	0.8	
65311	12 22 0-6	<u></u>					22 1	116 VH	e.j.s		₹ 3 <u>1</u>		1/10/18		≤	1.2	
65312	4 14 6-18	00					14	39 VH				1000			3	<u>ω</u>	
65313	2 7 18-30	30					7	44 VH	f. ch			cher Wil	44.52			. <b>4</b>	

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# ADDITIONAL SOIL ANALYSIS

*395*  65299  N PVT FSL  Depth: 0-6  65300  N PVT FSL  Depth: 6-18  65301  N PVT CLAY  Depth: 0-6  65304  N PVT CLAY  Depth: 6-18  N PVT CLAY  Depth: 6-18  05305  OUTSDPVT FSL  Depth: 6-18  Outsdey  Depth: 6-18  Outsdey  Depth: 6-18  Outsdey  Depth: 6-18  Outsdey  Depth: 6-18						
0.0.0.2.7.7.7.7			E.C.	Total Kjeldahl Nitrogen	Sulfur	Total N
0.0.0 2 7 7 7 7 7	KCI e	# 	EC electrode mmhos/cm	Kjeldahl ppm	Calculation lba/A	(caic) Calculated ppm
0.0.0 2 7 7 7 7	3		6 <u>.</u> 9	1290	360 00	1299 00
0.0.0 2 7 7 7 7	0-6			1	0	00.00
0.0.0.2.7.7.7			3.2	400	142.00	404 00
0,0,0,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z,Z	6-18			1		
0.0.0.2.7.7	-	_	4.0	360	184.00	363 00
0 0 0 7 7 7	18-30					0
0 0 0 7 7	AY 1	-	3.2	450		
0 0 0 7 7	0-6			100	126.00	453 00
0 0 0 7	1				126.00	453.00
0 0 0 7	5-18		5.7	1350	126.00	453.00 1355.00
0 0 0			5.7	1350	126.00 320.00	453.00 1355.00
0 0 0	2		5. 5. 7 5.6	1350	126.00 320.00 322.00	453.00 1355.00 503.00
0 0	-30	-	5.7 5.6	1350	126.00 320.00 322.00	453.00 1355.00 503.00
0 0	-30 -30		5.6	1350 500 1140	126.00 320.00 322.00 70.00	453.00 1355.00 503.00
	; :SL -30		5.6	1350 500 1140	126.00 320.00 322.00 70.00	453.00 1355.00 503.00 1146.00
			5.7 5.6 1.4	1350 500 1140 590	126.00 320.00 322.00 70.00	453.00 1355.00 503.00 1146.00
Donth: 10			5.6 5.6 1.4	1350 500 1140 590	126.00 320.00 322.00 70.00 42.00	453.00 1355.00 503.00 1146.00 592.00
Deput. 10-00			5.6 5.6 1.4 1.3	1350 500 1140 590	126.00 320.00 322.00 70.00 42.00	453.00 1355.00 503.00 1146.00 592.00
65308 OUTSDPVT CLY			5.7 5.6 1.4 1.3	1350 500 1140 590 490	126.00 320.00 322.00 70.00 42.00	453.00 1355.00 503.00 1146.00 592.00 492.00
Depth: 0-6			5.7 5.6 1.4 1.3 2.8	1350 500 1140 590 490	126.00 320.00 322.00 70.00 42.00 150.00	453.00 1355.00 503.00 1146.00 592.00 492.00

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# ADDITIONAL SOIL ANALYSIS

							-			
		ง ขั้น ขั้น	65312	( ( -	65311	65310		65309	*395 *	Labnum
	Depth: 18-30	Depth: 6-18	SPIVOT	Depth: 0-6	S PIVOT	OUTSDPVT CLY	Depth: 6-18	OUTSDPVT CLY		Sample ID
	٨	)	ω	1	>	6		4	KCI extract ppm	Ammonia Nitrogen
	۲. ن	)	1.3	;	သ ဝ	1.8		1.3	EC electrode mmhos/cm	E.C.
	480		560	1300	1000	890		840	Kjeldahl ppm	Total Kjeldahl Nitrogen
45-00-00-00-00-00-00-00-00-00-00-00-00-00	88.00		78.00	232.00	3	132.00		36.00	Calculation lba/A	Sulfur
	482.00		564.00	1312.00		898.00	0	845 00	Calculated ppm	Total N

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# SODIUM ADSORPTION RATIO REPORT

Method Lab Sample Number Id Units	CALCULATED Sodium Adsorption Ratio	SATURATE Sodium (Water Soluble) mg/L	SATURATED PASTE EXTRACTION (dium Magnesium (	iON Calcium (Water Soluble) mg/L	
39565299N PVT FSL	35.5	1402	4	111	
39565300N PVT FSL	25.9	665	10	34	
39565301N PVT FSL	30.9	888	9	48	
39565302N PVT CLAY	24.2	652	16	29	
39565303N PVT CLAY	29.9	1188	27	75	
39565304N PVT CLAY	34.9	1237	<u> </u>	77	
395653050UTSDPVT FSL	5.6	220	12	95	
395653060UTSDPVT FSL	4.6	179	10	96	
395653070UTSDPVT FSL	6.4	370	20	220	
395653080UTSDPVT CLY	1.3	104	34	403	

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3404 AIRWAY BLVD AMARILLO TX 79118

IDENTIFICATION SCHREIBER SOIL/ 4/4/22

	SODIUN	SODIUM ADSORPTION RATIO REPOR	REPORT	
Method Lab Sample Number Id Units	CALCULATED Sodium Adsorption Ratio	SATURATE Sodium (Water Soluble) mg/L	SATURATED PASTE EXTRACTION dium Magnesium ( Soluble) (Water Soluble) (Water Soluble) (Water Soluble) (Water Soluble)	ACTION Calcium ) (Water Soluble) mg/L
39565309OUTSDPVT CLY	2.0	105	15	180
395653100UTSDPVT CLY	2.3	137	21	237
39565311S PIVOT	23.8	816	19	58 8
39565312S PIVOT	24.9	680	11	ა ა
39565313S PIVOT	29.4	795	O	41

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39565313	39565312	39565311	39565310	39565309	CAB NOIVIBER	
V FIVO	SPIVOI	S PIVOT	OUTSDPVT CLY 3	OUTSDPVT CLY 4	SAMPLE ID	
_	ı (o	47	.\ ⇔	·Y 4	ppm	WA
64	98	92	34	30	r ppm K ppm	TER SO
124	124	124	487	262	Ca ppm	<b>VATER SOLUBLE REPORT</b>
54	60	41	48	သ	Mg ppm	ORT
1161	1071	936	178	124	Na ppm	
41	34	112	62	17	S ppm	

## Erath County Per history

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泰国	ANALES MINES E
1	. Widwest Laboratories

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Account Number/ Company Name: Chalt 39565299 — 39565313 No L\_ Purchase Order: Samples for Regulatory Use: ine formy territory. AND THE PARTON Name: Enviro-Ag Engineering Client Names Schreiber Name: Address: 9855 FM 847 Sample ID: Address City, States Dublin, TX ZIPI 76446 ZIP: Sample Date 4/4/00 Phone: (254) 965-3500 FAX: Sample Times Phone: Email: imullin@enviroag.com PROJECT INFORMATION BOTTLE ORDER INFO TESTS REQUESTED Project Harno/ Commany Proper Preservation (Y/N) COMPANY, (Signature) SAMPLER (Signature) No. of Containers Regulatory (Y/N) It robro \redmukt da.l (Internal Use) SAMPLE ID/LOCATION DATE TIME REMS REMS North Prot FSL 0-6 50 43235 43236 REMS REMS 18-30 43238 43237 North Prot Clay 0-6 REMS REMB 43240 43239 18-3) REMS REMS outside Phast for 0-6 43241 43242 REMS REMB 18-30 43243 43244 GutsDe PriotCly 0-6 段問用部 REMS 43246 43245 (8-30 REMS REMS 43247 43240 South Plust 0-6 6-14 REMS 43249 18.30 Rocolyad by: (Slynatine) No [ 4/11/22 Fel EX Cooler arrived intact: (tecolend by: (Signature) Temperature on Arrival: (tellinguished by: (Signature) 45 4/13/20 No [ Yes [ Preserved in Flekk Received by (Signature) Data/Time Railingulthed by: (Signature) REMS SAR Mot Alli attalàre àent sai



Quality Assessment Team (MC-150), and Region 4 Office during the month of September of each calendar year.

L. The permittee shall obtain representative soil samples from the root zones of the landapplication area receiving wastewater. Composite sampling techniques shall be used. Each composite sample shall represent no more than 50 acres with no less than 15 subsamples representing each composite sample. Subsamples shall be composited by like sampling depth, type of crop, and soil type for analysis and reporting. Soil types are soils that have like topsoil or plow layer textures. These soils shall be sampled individually from 0 to 6 inches, 6 to 18 inches, and 18 to 30 inches below ground level. The permittee shall sample soils in December to February of each year. Soil samples shall be analyzed within 30 days of sample

The permittee shall provide annual soil sample analyses of the land application area according to the following table:

Parameter pH	Method	MAL 4	Reporting units
	2:1 (v/v) water to soil mixture		Reported to 0.1 pH units after calibration
Electrical Conductivity	Obtained from the SAR water-saturated paste extract	0.01	of pH meter dS/m (same as mmho/cm)
Nitrate- nitrogen, ammonium- nitrogen	From a 1 <u>N</u> KCl soil extract	1	mg/kg (dry weight basis)
Total Kjeldahl Nitrogen (TKN)	For determination of Organic plus Ammonium Nitrogen. Procedures that use Mercury (Hg) are not acceptable.	20	mg/kg (dry weight basis)
Total Nitrogen	= TKN plus Nitrate-nitrogen	****	mg/kg (dry weight basis)
Plant-available: Phosphorus	Mehlich III with inductively coupled plasma	1 (P)	mg/kg (dry weight basis)
Plant-available: Potassium (K) Palcium (Ca) Magnesium (Mg) Podium (Na) Palfur (S)	May be determined in the same Mehlich III extract with inductively coupled plasma	5 (K) 10 (Ca) 5 (Mg) 10 (Na) 1 (S)	mg/kg (dry weight basis)
Vater-soluble: odium (Na) alcium (Ca) Iagnesium (Mg)	Obtained from the SAR water saturated paste extract	1 (Na) 1 (Ca) 1 (Mg)	Water soluble constituents are reported in mg/L

<sup>4</sup> Minimum analytical level.





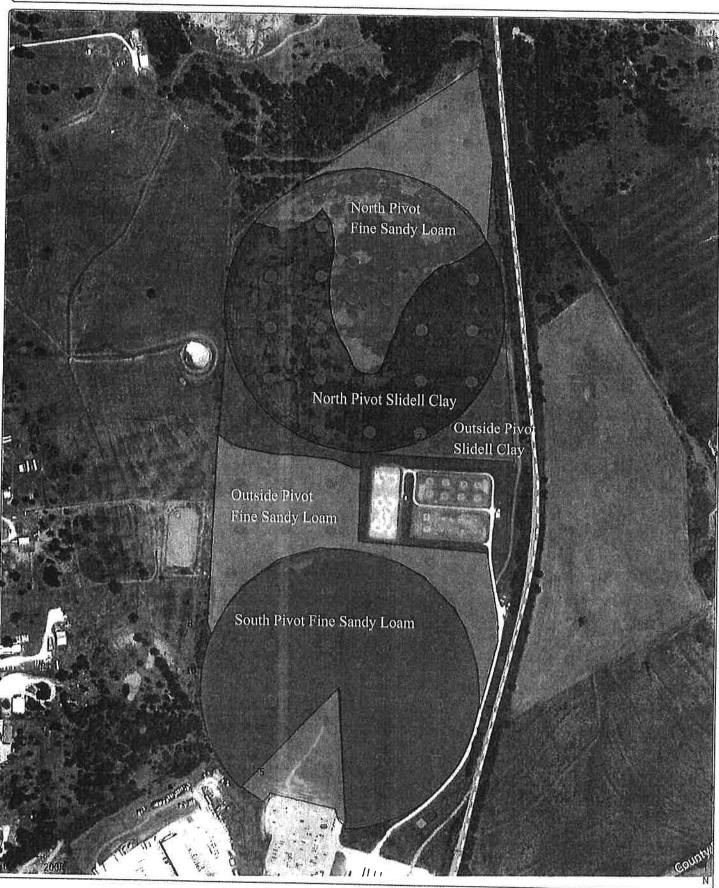




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## Schreiber Foods



3/9/2016 9:17:33 AM

Ag Leader Technology SMS Basic

## ATTACHMENT 8 - POLLUTANT ANALYSIS DATA



# Pace Analytical ANALYTICAL REPORT

### Enviro-Ag Engineering

Samples Received: Sample Delivery Group: L1551018

10/27/2022

Description: Project Number.

Jourdan Mullin

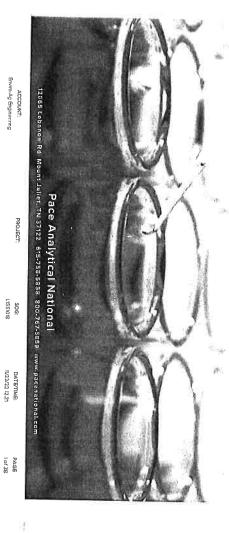
Report To:

3404 Airway Blvd. Amarillo, TX 79118

Entire Report Reviewed By: /

Mundia Foster

Project Manager Cassandra Foster



Sc: Sample Chain of Custody

Gl: Glossary of Terms Al: Accreditations & Locations

Metals (ICP) by Method 200.7

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Wet Chemistry by Method SM5210B Mercury by Method 245.1

Wet Chemistry by Method SM4500NH3H Wet Chemistry by Method SM 4500-H÷B Wet Chemistry by Method 5310C Wet Chemistry by Method 5220D Wet Chemistry by Method 4500P-E Wet Chemistry by Method 4500CN-E Wet Chemistry by Method 4500Cl G-2011

Ss: Sample Summary Cn: Case Narrative

To: Table of Contents Cp: Cover Page

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Sr. Sample Results

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Wet Chemistry by Method 3500Cr-8 Wet Chemistry by Method 300.0 Wet Chemistry by Method 1664A

Wet Chemistry by Method 351.2

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Gravimetric Analysis by Method 2540D

Wet Chemistry by Method 120.1

Gravimetric Analysis by Method 2540C

Microbiology by Method 9222D

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Oc: Quality Control Summary

SCHREIBER SAMPLE #1 L1551018-02

SCHREIBER SAMPLE #1 L1551018-01

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Enviro-Ag Engineering ACCOUNT:

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SDG

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Wist Chemistry by Method 3500Cr-8
Wet Chemistry by Method 4500CN-6
Morcury by Method 245.1

Metals (ICP) by Method 2007

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WG1957463

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Calculated Results

SCHREIBER SAMPLE #1 L1551018-02 WW

### CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDI, (LOC) valued pt. (LOC) values reported for environmental samples have been corrected for the diution factor used in the analysis. All Method and Batter Quality Control are within established criterial accepts where addressed in this case narrative, a non-conformance form or properly qualified within the semple results. By my digital signature below, laffirm to the best of my knowledge, all problems/anomalies observed by the inboratory as howing the potential to affect the quality of the data have been identified by the bioprostory, and no information or data have been knowingly withheld that would affect the quality of the data.

Cassandra Foster Project Manager

ACCOUNT: PROJECT L1551016 SEG DATE/TIME:

PAGE

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Collected attachment 10/27/12 0503   Lissrord
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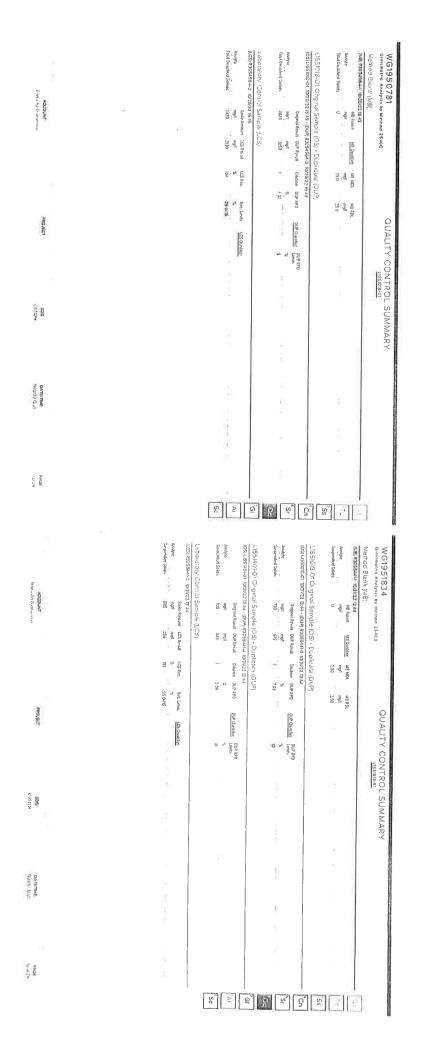
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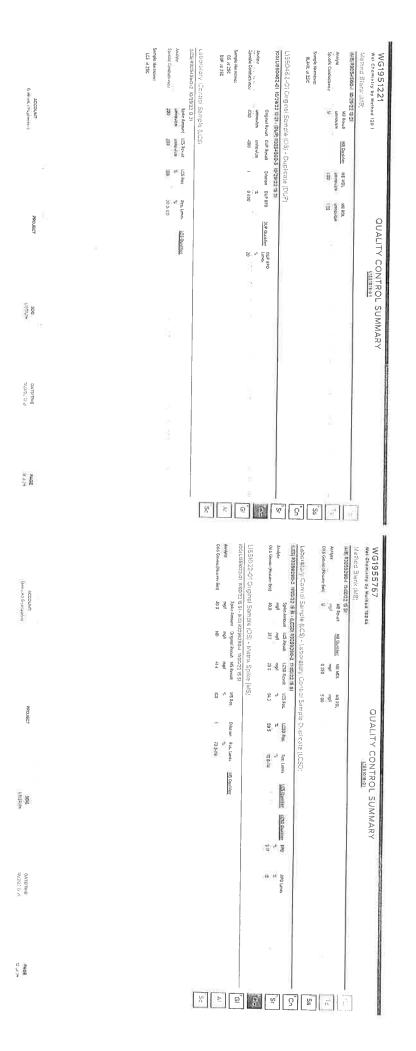
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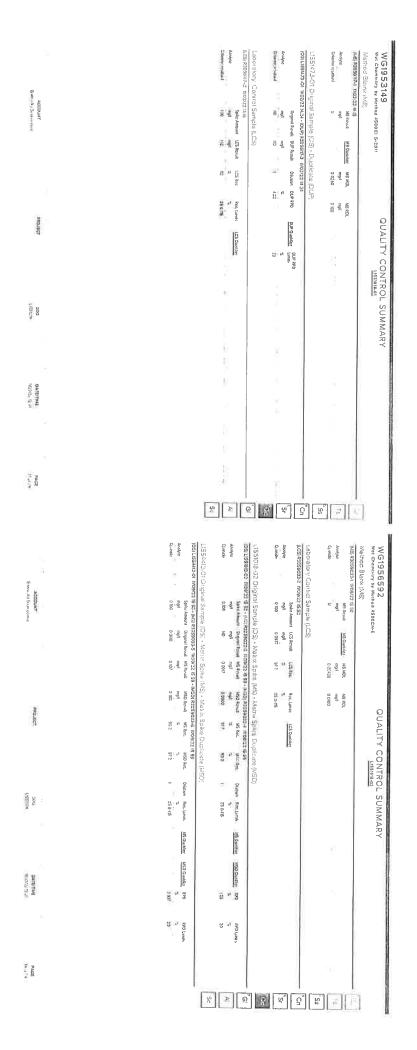
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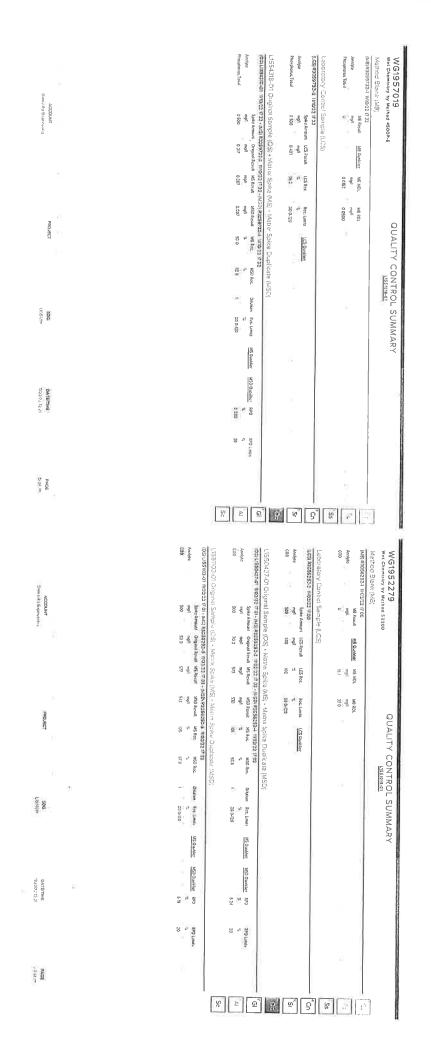
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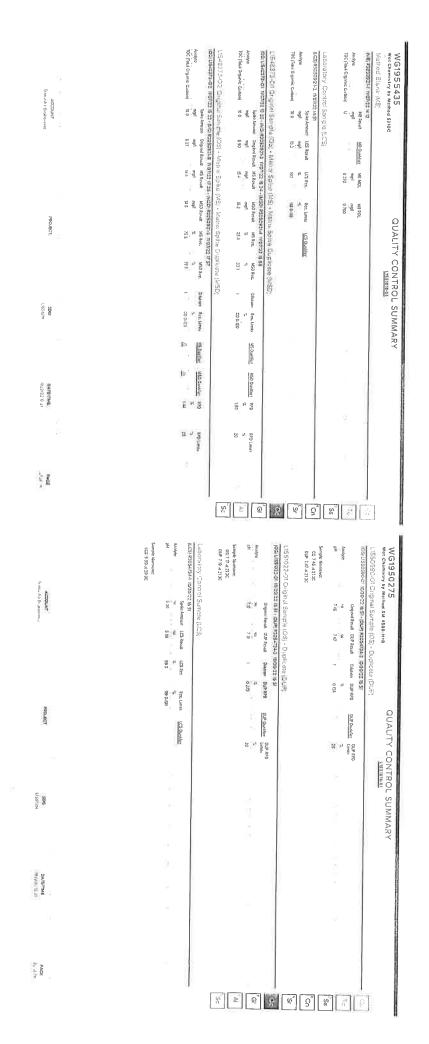
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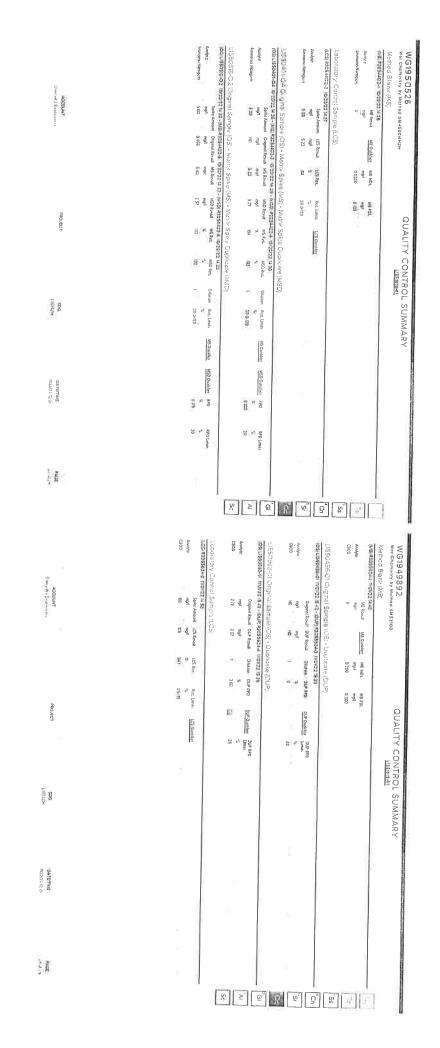
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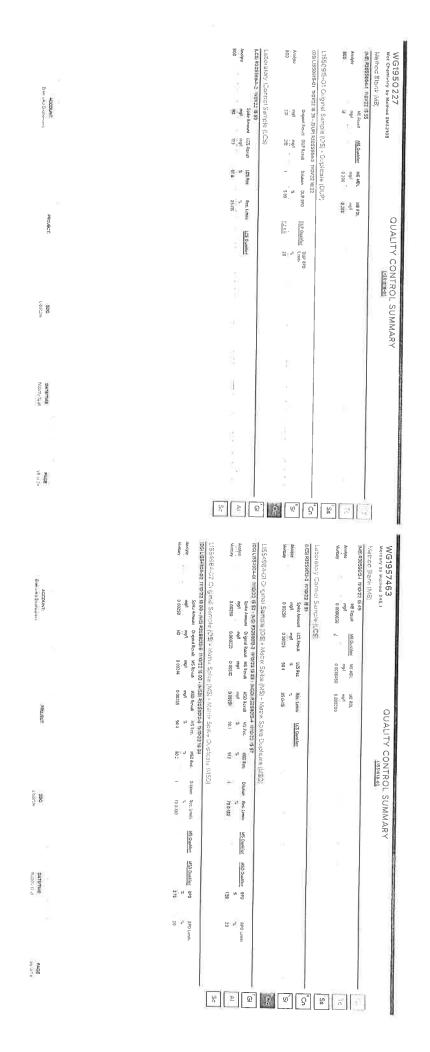
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## GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is dustigned to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaims: Information that may be provided by the questionist and contineed within this report include Permit Limits, Project Name, as Smaller D. Safnoler Matter, Safnoler Reservation, Three Banks, and Softialer, Fired Disclaims, Consider Data Safnoling Collection Datas/Times, and Softial Laboration, Results that is one received.

## Abbreviations and Definitions

DOCKAROO	מינית אומניתים מיוים לימוים מיוים מי
MDL	Method Detection Limit,
8	Not detected at the Reporting Limit (or MDL where applicable)
RDL	Reported Detection Limit,
Rec	Recovery.
RPD	Relative Parcent Difference
SDG	Samply, Delivery Group,
C	Not detected at the Reporting Limit (or MOL where applicable)
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
:	If the sample matrix contains an interfering matural, the sample perpension volume or weight values differ from the

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5 SS 7

These are the single? Windowery ranges or 'X ofference value that the laboratory has historically determined as normal facilitie method and analytes being reported. Successful OC Sample analysis will larget all analytes recovered or studied whith these straights. Schadad, or if conspirations of analysis in the sample and highly than the highest limit of constitution that the decreated can accomply report, the sample may be diluted for shopes. If a valual offerent than 1 is cald in this field, the visual reported has already been corrected for this factor.

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Original Sample This column areology, is least and/or jumps: essignation that corresponds, to additional information concerning the result reported to Qualifyr is present a definition per Qualifier is provided within the disassy and Definitions page and patentially a discussion of possible implications of the Qualifier in the Class Markford, if applicable. The non-spiked sample in the prop batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.

Qualifier

Linits

The actual indeplicat final result (connected to any sample specific choscationses) reported to your sample. If there was no ministrations in such results of the proportion analysis, the new time in this calumin may sable with That Developed or SDL. Beging beautible is existed, the information in the results column should sawlys as excommanded by either, an MDL (Meaned 2) resident further a RDL (Reporting Developed Limit) that defines the Jowess value that the information could detect or report for this manifer.

Uncertainty (Radiochemistry) Confidence level of 2 sigma

Quality Control Summary (Qc)

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Sample Chain of Custody (Sc) This is the determent created in the field which your samples were initially collected. This is used to verify the time and other of celection, the present celectrop are samples, and the molycle that the obsorbing is requested to purifyin. This phone is reasonable obsorbing an analysis and property collection and independ and comments of an existing collection and is injurisly in that are to provide a possession of the analysis of cells of the analysis in the obsorbing of an analysis.

Sample Summary (Ss) This section of your report will provide the next is drift spacing performed on your samples. These results are provided by sample. O and dive spacetade by the tableses performing on section sample. The spacer line of each analysis section for each sample will provide the name and method number for the analysis integrand.

Sample Results (Sr)

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

m	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
_	The identification of the analyte is acceptable; the reported value is an $\pm \sin a t_0$
75	The sample matrix interfered with the ability to make any accurate determination; spike value is high
Je	The sample matrix interferred with the ability to make any accurate determination, spike value is low
ž	The sample diutions set up for the BODICBOD analysis did not meet the criteria of a residual dissolved oxygen of at least I mg/L. Reported result is an estimated value.
6	Test replicates show more than 30% difference between high and low values.
2	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
TS	Sample(s) received past/too close to holding time explination
<	The sample concentration is too high to evaluate accurate spike recoveries.

PROJECT.

SDG

DATE/TIME

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Enviro-Ag Engintenng

PROJECT:

L1551018 SDG

DATE/TIME 1/22/22 12/21

PAGE 32 of 38

## ACCREDITATIONS & LOCATIONS

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## Pace Analytical Services, LLC -Dallas 2657 Gravel Dr Ft Worth, TX 76118

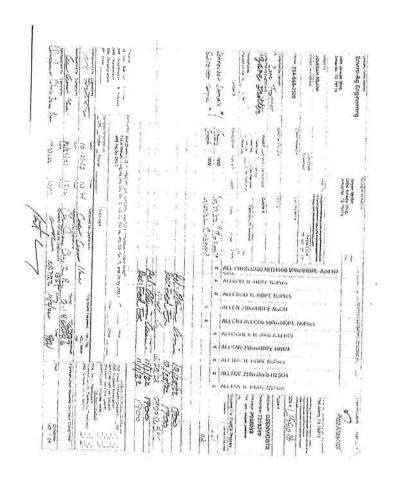
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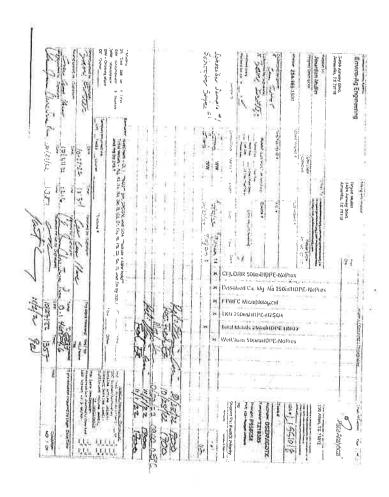
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## Pace Analytical ANALYTICAL REPORT November 28, 2022

## Enviro-Ag Engineering

Samples Received: Sample Delivery Group: L1553075

11/02/2022

Project Number:

Description:

Report To:

Jourdan Mullin

Amarillo, TX 79118 3404 Airway Blvd.

Entire Report Reviewed By: Hagan / Aman

Project Manager Reagan Johnson

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TABLE OF CONTENTS

Qc: Quality Control Summary Sr: Sample Results Cn: Case Narrative Ss: Sample Summary Tc: Table of Contents Cp: Cover Page Microbiology by Method 9222D SCHREIBER SAMPLE 2 L1553075-02 SCHREIBER SAMPLE 2 L1553075-01

Wet Chemistry by Method 4500CI G-2011 Wet Chemistry by Method 351.2 Wet Chemistry by Method 3500Cr-B Wet Chemistry by Method 300.0 Wet Chemistry by Method 1664A Wet Chemistry by Method 120.1 Gravimetric Analysis by Method 2540D Gravimetric Analysis by Method 2540C

Wet Chemistry by Method 5310C Wet Chemistry by Method 5220D Wet Chemistry by Method 4500P-E Wet Chemistry by Method 4500CN-E

Wet Chemistry by Method SM5210B Wet Chemistry by Method SM 4500-H+8 Wet Chemistry by Method SM4500NH3H

Metals (iCP) by Method 200.7 Mercury by Method 245.1

Sc: Sample Chain of Custody Al: Accreditations & Locations GI: Glossary of Terms

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### SAMPLE SUMMARY

SCHREIBER SAMPLE 2 L1553075-01 WW			Collected by Zane Trotter	Collected date/lime Received cate/lime 17/02/22 14:40	Received date 17/02/22 14:40	ate/time 40
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Microbiology by Method 9272D	WG1954037	-	11/02/22 15:00	11/03/22 15:14	S:	Ft Worth, TX
Calculated Results	WG1956373		11/11/22 14:12	11/11/22 14:12	E :	Allen, TX
Calculated Results	WG1957373	1	71/10/22 17:50	11/10/22 17:50	E7	AllentTX
Gravimetric Analysis by Method 2540C	WG1953745	_	11/03/22 09:53	11/03/22 10:30	007	Allen TX
Gravimetric Analysis by Method 25400	WG1953564		11/03/22 04:16	11/03/22 05:55	001	Allen, TX
Wet Chemistry by Method 120. I	WG1953820	_	11/03/22 11:19	11/03/22 11:19	007	Allen, TX
Wet Chemistry by Method 1664A	WG1959248	_	11/14/22 15:26	11/15/22 15:12	큿	Allen, TX
Wet Chemistry by Method 300.0	WG1953866		11/04/22 09:19	11/04/22 09:19	SMC	Allen, TX
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wet cremisty by Method 450001 G-2011	WG195/1442	_	11/04/22 12:38	11/04/22 12:38	Ŗ	ML Juliet TN
Wal Chamistry by Method 45002-E	WG1957241	100	11/10/22 18:37	11/10/22 :8:37	KCM	Allen, TX
Mod Champers by Medical Cases	WG1956628	12	11/09/22 09:07	11/09/22 12:45	SMC	Allen, TX
Wet Chemistry by Melhold SM 4500-H+R	WCJOSETSO.	ن .	11/09/22 17:44	11/09/22 17:44	8	Allen, TX
Wet Chemistry by Method SM4500NH3H	WG1957373	-a -	11/07/22 14:44	100072214344	n 2	Allen, iX
Wet Citemistry by Method SM52108	WG1953055	_	11/02/22 17:18	11/07/22 10:57	R (	Allen TY
Wel Chemistry by Method SM52108	WG1953060	_	11/02/22 16:03	11/07/22 13:29	몽	Allen, TX
Metals (ICP) by Method 200,7	WG1956373		11/08/22 17:17	11/10/22 :7:26	SLE	Allan, TX
Metals (ICP) by Method 2007	WG1956373	12	11/08/22 17:17	11/11/22 14:12	EJS	Allen, TX
ME(als (ICP) by Method 2007	WG1956373	2	11/08/22 17:17	11/11/22 12:29	EIS	Allen, TX
Metals (ICP) by Method 2007	WG1959919	-	11/15/22 12:06	11/21/22 19:27	STB	Allen, TX
Metals (ICH) by Method 200,7	WG1959919	20	11/15/22 12:06	11/28/22 10:58	EIS.	Allen, TX
			Collected by	Collected data/lime Received cate/lime	Received cat	e/ume
SCHREIBER SAMPLE 2 L1553075-02 WW			Zane Trotter	11/02/22 99:33	11/02/22 14:40	
Method	Baich	Sollulion	Preparation	Analysis	Anaiyst	Lucation
Calculated Results	WG1955373	=	date/lime 11/10/2Z 17:32	date/lime 11/10/22 17:32	ES	Allen, TX
Wel Chemistry by Method 3500Cr-8	WG1954855	-	11/05/22 12:49	11/05/22 12:49	KCM	Allen, TX
Wet Chemistry by Method 4500CN-E	WG1958003		11/11/22 10:15	11/11/22 16:22	KOM	Allen, TX
Mercury by Method 245.1	WG1959240	ŝ	11/14/22 10:40	11/14/22 14:58	Ę	Allen, TX
Metals (ICP) by Method 2007	WG:556373	120	11/08/22 17:17	11/10/22 17:32	SF3	Allen, TX
motors for 1 of mention 500%	WG19563/3	2	11/08/22 17:17	11/11/22 12:34	EIS	Allen, TX

### CASE NARRALIVE

All sample alliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within export the report. Where applicable, all MDL (LOD) and RDL (LOD) values reported for environmental samples; have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been consingly withheld that would affect the quality of the data.

Reagan Johnson Project Manager

PAGE:

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

ACCOUNT:

PROJECT:

SDG:

DATE/TIME

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PAGE

SCHREIBER SAMPLE 2 Collected date/Hime: 11/02/22 09:33

SAMPLE RESULIS - 01

Chlorine, residual Analyte Chloride Fluoride Nitrate Sulfate Wet Chemistry by Method 4500Cl G-2011 Kjeldahl Nitrogen, TKN Wet Chemistry by Method 351,2 Oil & Grease (Hoxane Extr) Wet Chemistry by Method 300.0 Wet Chemistry by Method 1664A Analyte Coliform Fecal Specific Conductance Analyte Wet Chemistry by Method 120.1 Suspended Solids Analyte Gravimetric Analysis by Method 2540D Total Dissolved Solids Organic Nitrogen Gravimetric Analysis by Method 2540C Analyte Sodium Adsorption Ratio L1553075-01 WG1953820: at 25C Calculated Results Calculated Results Microbiology by Method 9222D Result mg/l 29/7 0.930 Result mg/l 1320 ND 1.94 mg/f umhos/tm Result mg/l Result mg/l Result mg/l Result cfu/100 ml 800 23,4 Result 5 Qualifier lp. Qualifier Qualifier Qualifier Qualifier Qualifier 0,100 Rg RD 0.800 0.500 0.500 0.700 mg/l ROL umhos/cm 1.00 -E 70 ROL mg/l 250 mg/l 0,100 RD1 mg/l 250 RDL Dilution Analysis PROJECT: date / time 11/03/2022 15:14 Dilution Dilution Dilution Dilution Dilution Dilution Dilution Dilution Dilution 13/11/2022 22:15 11/11/2022 23:28 11/04/2022 09:19 11/04/2022 12/38 date / time 11/15/2022 15:12 11/10/2022 17:50 gale / time 11/03/2022 11:19 date / time Analysis cate / time 11/03/2022 05:55 date / time Analysis 11/11/2022 22:15 cate / time Analysis date / time 11/03/2022 10:30 Analysis Analysis 11/10/2022 17:50 11/11/2022 14:12 cate / time Analysis cate / time WG1954037 Batch WG1954442 Balch WG1956753 WG1958408 WG1958403 WG1953866 WG1958408 Batch Batch Balch WG1953564 WG1953745 WG1953820 Batch Batch Balch W61957373 WG1956373 Balch DATE/TIME: PAGE: SC F 
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> Analyte Calcium

Metals (ICP) by Method 200.7

Qualifier

Dilution

Batch

Calcium, Dissolved

Result mg/l 105 55.4 42.9 37.5 1130 1000

mg/l 2.000 1.000 1.000 12.00 20.0

11/21/2022 19:27 11/10/2022 17:26 11/21/2022 19:27 11/11/2022 14:12

WG1956373 WG1959919 WG1956373 WG1959919 WG1955979

Analysis date / time II/II/2022 12:29

11/28/2022 10:58

Magnesium, Dissalved Magnesium, Dissalved Sodium

ACCOUNT:

PROJECT:

SDG:

DATE/TIME

PAGE

BOD CBOD

mg/l 31.5 26.1

mg/l 6,00

> data / šime 11/07/2022 10:57

11/07/2022 13:29

WG1953055

Qualifier

Dilution

Analysis

Batch

Wet Chemistry by Method SM5210B

Ammonia Nitrogen

Result mg/l 3,29

mg/l 0,100

Analysis date / time 11/10/2022 14:16

WG1957373

Qualifier

Dilution

Wet Chemistry by Method SM4500NH3H	Sample Narrative: L1553075-01 W61955130: 9.04 at 20,2C	Analyte PH	Wet Chemistry by Method SM 4500-H+B	Analyte TOC (Total Organic Carbon)	Wet Chemistry by Method 5310C	Analyte COD	Wet Chemistry by Method 5220D	Analyte Phosphorus, Tolal	SCHREIBER SAMPLE 2 collected date/time: 11/02/22 09:33 Wet Chemistry by Method 4500P-E
od SM4500NH3H	0.2C	Result Qualifier	od SM 4500-H+B	Result Qualifier mg/l	od 5310C	Result Qualifier mg/l 669	nod 5220D	Result Qualifier mg/l V	500P-E
		Dilution Analysis <u>Batch</u> date / time 1 11/07/2022 14:44 WG1955/20		RDL Dilution Analysis mg/f cate / sinte 3.50 \$ 11/05/2022 17:44		RDL Dilution Analysis mg/l cale / time 70.0 2 11/09/2022 12:45		RDL Dilution Analysis mg/l date / time 5.00 100 H/10/202218/37	SAMPLE RESULIS - 01
		# 1		<u>Batch</u> WG1955687		Batch WG1956628		<u>Balch</u> WC1957241	
	[8	  [⊴][	ള്	ا ا و ا	No.	Q" [ g	٦ſ	092 3   Ω	274

B	Zinc	Silver	Seferium	Lead	Copper	Cadmium	Boron	Beryllium	Arsenic	Antimony	Aluminum	Analyte	Metals (ICP) by Method 200.7	Mercury	Arabata	Analyte Cyanide Mercury by Method 245.1	Wet Chemistry	Sample Narrative: L1553075-02 WG1954	Analyte Chromium, Hexavalent	Wet Chemistry	Control of the state of the sta	Analyte Charming Tribalent	SCHREIBER SAMPLE 2 collected date/time: 11/02/22 09:33 Calculated Results
ACCOUNT	O.II.9	8	88	NO	8 <del>2</del>	8 8	ND	ND OD OD	ND	N	4,18	Result	Method 200.7	ND	Result	Result mg/l ND ND	Wet Chemistry by Method 4500CN-E	mple Naradive; L1552075-02 W01954855; Sample not Felyl filtered vr/m 15min of collection.Sample preserved in lab win 24hrs of collection	mg/l	Wet Chemistry by Method 3500Cr-B	0.00230		SAMPLE 2 :: 11/02/22 09:33 suits
											1000	Qualifier			Qualifier	Qualifier	ų.	vin 15min of co		Onalifer C		Qualifier	
PROJECT	0,0250	0,00500	0.0100	0,0100	0,0200	0,00500	0.100	0.00100	0.0200	0,0250	0.500	ROL		0.000200	ROL	mg/l 0.0100	,	ollection.Sample	mg/l	2	0050010	mg/i	SAME
g -	1.00		0 Ca		e a	22	Si .	212	2121	-1%	1	Dilution		-	Dilution	Dilution		preserved in	-	Oilution	-	Dilution	יבר צר ער בצר
SO ଡି:	11/10/2022 17:32	11/10/2022 17:32	17/10/2022 17:32	11/10/2022 17:32	11/10/2022 17:32	11/10/2022 17:32	11/10/2022 17:32	11/11/202212:34	11/10/2022 17:32	11/10/2022 17 32	11/11/2022 12:34	Analysis		10/14/2022 14:58	Analysis	Analysis Cale / Lime 11/11/2022 16:22		lab wiin 24hrs of collectu		Analysis	(1)(0)/202/21/12		SAMPLE RESULIS - 02
	WG1956373	WG1956373	WG1956373	WG1956373	WG1956373	WG1956373	WGI956373	WG1956373	WG1956373	WGI956373	WG1956373	Batch		WG1959240	Batch	Batch WG1958003		9	WG19548SS	0	W61956373	Batch	2
DATE/TIME:											The state of the s												
PAGE											27			340	25.	P (G)	Q*	Š	1 1 1	SS	[=		

WG1954037

### QUALITY CONTROL SUMMARY

Microbiology by Method 9222D L1553075-01 Method Blank (MB) (MB) R3B56958-1 1V03/22 15:14 MB Result MB RDL Analyle clu/100 ml cfw100 ml c[u/100 ml Tr Coliform Fecal <1 Ss Method Blank (MB) (MB) R3856958-2 TV03/22 15:14 ,CL MB Result MB Qualifier MB MDL MB RDL \$ Sr Analyte cfu/100 ml Cfw100 ml cfu/100 ml Coliform Fecal <1 L1553075-01 Original Sample (OS) - Duplicate (DUP) (OS) L1553075-01 11/03/22 15:14 • (DUP) R3856958-3 11/03/22 15:14 GI AI Original Result DDP Result Dilution DDP RPD OUP Qualifier DUP RPD Limits Analyte cfu/100 ml cfu/100 ml % Coliform Fecal 800 900 11.8 Sc

### WG1953745 Gravimetric Analysis by Mathod 2540C

### QUALITY CONTROL SUMMARY L1553075-D1

Method	Rlank	MARY

(MB) R3857457-1 11/03/22 10:30 MB Result MB Qualifier MB MDI MB RDI Analyte mg/l mg/f mg/t Tc. Total Dissolved Sollos U 25.0 25.0 ³Ss L1552203-02 Original Sample (OS) - Duplicate (DUP) ¹Cr (OS) L1552203-02 11/03/22 10:30 - (DUP) R3857457-3 11/03/22 10:30 Original Result DUP Result Dilution DUP RPD DUP Qualifier DUP RPD Limits -I⁵Sr mc/l mg/l 96 Total Dissolved Sollds 773 799 9 99 IJ Laboratory Control Sample (LCS) 7 GI (LCS) R3857457-2 11/03/22 10:30 Al Sc Spike Amount LCS Result LCS Rec. Rec Umits LCS Qualifier Analyte mg/l mg/l Total Dissolved Solids 2340 2590 85,0-115

> ACCOUNT: PROJECT: DATE/TIME: PAGE:

WG1953564 Method Blank (MB)

Gravimetric Analysis by Method 2540D

QUALITY CONTROL SUMMARY

£1553078-01

(MB) R3856538-1 1VO3/22 05:55 MB Result MB Qualifier MB MDL MB RDL Analyle mg/l nig/t Suspended Sollds U 2.50 2.50 L1553086-02 Original Sample (OS) • Duplicate (DUP) (OS) L1553086-02 11/03/22 05:55 - (DUP) R3856538-3 11/03/22 05:55

Original Result DUP Result Dilution DUP RPD DUP RPD Units DUP Qualifier Analyle mg/I mg/l % Suspended Solids 9680 9740 0.618 10

L1553086-03 Original Sample (OS) • Duplicate (DUP) (OS) L1553086-03 11/03/22 05:55 · (DUP) R3856538-4 11/03/22 05:55

Original Result DUP Result Dilution DUP RPD DUP Qualifler Analyte Suspended Solids 8000 7740 3.30 10

Laboratory Control Sample (LCS)

(LCS) R3856538-2 1V03/22 05:55 Spike Amount LCS Result LCS Rec

Rec\_Limits LCS Qualifier Analyte mg/l mg/l Suspended Solids 828 850 103 85 0-115

PAGE:

C)

Tc

Ss

<sup>1</sup>Cr

⁵Sr

0

7GI

WG1953820 Wel Chemistry by Method 120.1

### QUALITY CONTROL SUMMARY L1553075-01

Method Blank (MB)

(MB) R3856482-1 1V03/22 11:19

MB Result Analyte umbas/cm MB Qualifier MB MDL umhos/cm umhos/cm

100 1.00

%

LCS Rec

100

0,000

Rec Limits

80.0-120

Specific Conductance Sample Narrative: BLANK: at 25C

L1552203-02 Original Sample (OS) - Duplicate (DUP)

(OS) L1552203-02 11/03/22 11:19 · (DUP) R3856482-3 11/03/22 11:19

Original Result DUP Result Dilution DUP RPD umhos/cm umhos/cm 1130 1130

umhos/cm

200

DUP RPD Limits DUP Qualifier %

LCS Qualifier

20

Specific Conductance Sample Narralive: OS: at 25C

DUP: at 25C

Sample Narrative: LCS: at 250

Analyte

Laboratory Control Sample (LCS)

(LCS) R3856482-2 1V03/22 11:19 Spike Amount LCS Result

umhos/cm Specific Conductance 200

PROJECT:

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CE

To

³Ss

⁵Sr

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WG1959248

Wel Chemistry by Method 1664A

QUALITY CONTROL SUMMARY L1553075-01

Method Blank (MB) (MB) R3861626-1 11/15/22 15:12

Analyle

MB Result Analyle

MB Qualifier MB MDL MB RDL mg/t mq/l Oil & Grease (Hexano Extr) U 0.350 5.00

Laboratory Control Sample (LCS) - Laboratory Control Sample Duplicate (LCSD)

(LCS) R3861626-2 1W15/22 15:12 - (LCSD) R3861626-3 1W15/27 15:12

Spike Amount LCS Result LCSD Result LCS Rec LCSD Rec Rec. Limits LCS Qualifier LCSD Qualifier RPD RPD Limits Analyte mg/f mg/i mg/i 95 Oil & Grease (Hexane Extr) 40,0 34,1 85.3 90.3 78.0-114 5.70 18

L1555129-03 Original Sample (OS) - Matrix Spike (MS)

(OS) L1555129-03 11/15/22 15:12 · (I/IS) R3861626-4 11/15/22 15:12

Spike Amount Original Result MS Result MS Rec Dilution Rec Limits MS Qualifler mg/i mg/l Oil & Grease (Hexaric Extr) 40.0 5.36 50,1 78.0-114

βAI

C.

Tc

Ss

Cr

⁵Sr

GI.

### WG1953866 Wet Chemistry by Method 300,0

### QUALITY CONTROL SUMMARY

Melhod	Blank	(MB)

(MB) R3858017-1 11/	04/22 08:43												
Analyte Milrate	MB Result nig/j U	MB Qualifier	MB MDL HIg/I	MB RDL usy/l									
	Ü		0,207	0,500									
	ntrol Sample (L	CS)											
(LCS) R3858017-2 1	1/04/22 09:01							-					
	Spike Amount	LCS Result	LCS Rec	Rec Limits	LCS Qualitier								
Analyle	mg/i	mgrl	0;	%									
Nitrate	5.00	4 93	98.5	90 0-110								85 E	
1553331 M O	iloinal Consta	06) 14			_								
	riginal Sample (						)						
	04/22 09:36 · (MS) R	3858017-3 11/	04/22 10:30 •				)	-10-22					
(OS) L1553331-01 11/	04/22 09:36 + (IAS) R Spike Amount	23858017-3 11/1 Orlginal Result	04/22 10:30 • MS Resull					Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	-
(OS) L1553331-01 11/ Analyte	04/22 09:36 • (MS) R Spike Amount mg/l	23858017-3 11/1 Orlginal Result mg/l	04/22 10:30 •	(MSD) R385801	7-4 11/04/22 10	0:48		Rec. Limits	MS Qualifier	MSD Qualifier	RPD %	RPD Limits	-
	04/22 09:36 + (IAS) R Spike Amount	23858017-3 11/1 Orlginal Result	04/22 10:30 • MS Resull	(MSD) R385801 MSD Result	7-4 1VO4/22 10 MS Rec	0:48 MSD Rec			MS Qualifier	MSD Qualifier		RPD Umils % 20	-

WG195840 Wel Chemistry by I	-			Ql	JALITY	CONTR		UMMA	KY				
Method Blank (N	AB)					- Application of the second	· ·						
(MB) R3860526-1 11/11	/22 20:30				•								
Analyte Fluoride	MB Result mg/l U	MB Qualifier	MB MOL 111y/1 0.198	MB RDL mg/l 0.500									
Laboratory Cont	rol Sample (L	CS)											
(LCS) R3860526-2 II/	1/22 20:50							Zenesiiii					
Analyte	Spike Antoun! ing/l	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier								
Fluoride	5.00	5.46	109	90 0-110								2.5	
L1553075-01 Ori	ginal Sample	(OS) · Mat	rix Spike (	MS) • Matris	k Spike Du	plicate (M:	SDı						
(OS) L1553075-01 11/11	722 23:28 · (MS) R	3860526-3 IV	11/22 21:09 - (	MSD) R386052	6-4 11/11/22 21	29							
Analyte	Spike Amount my/l	Original Result mg/l	MS Result mg/l	IASD Result mg/l	MS Rec	MSD Rec.	Ollution	Rec. Limits	MS Qualifier	MSD Qualifler	RPD	RPO Limits	
Fluoride	5.00	ИD	4.75	4.84	95,1	96.8	1	90.0-110			183	20	
L1554671-01 Oriç	inal Sample (	OS) • Matri	x Spike (N	1S) • Matrix	Spike Dur	olicate (MS	וח						
OS) L1554671-01 11/12/	22 03:27 · (MS) R3	8860526-5 11/1	1/22 21:49 - (1	(SD) R386052	6-6 1VIV22 22	:09							
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec	MSD Rec	Ditution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyle Tuoride	mg/t	nrg/l	ang/l	mg/l	%	%		%	*************	ELLE STREET	%	%	

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### WG1958408 Well Chemistry by Method 300,0

### QUALITY CONTROL SUMMARY

	,					1.155307	75-01						
Method Blank	(MB)												
(MB) R3860522-1 1	11/11/22 19:52												F
Analyle Chloride	MB Result	MB Qualifier	MB MDL mg/l	M8 RDL mg/l									[2
Sulfate	0.571 U	ī	0.0541	0 800 0 700									3
Laboratory Co	ontrol Sample (L	CS)											-
LCS) R3860522-2	11/11/22 20:10		-										
Analyte	Spike Amount		LCS Rec	Rec. Limits	LCS Qualifier								5
Chlorde	.mg/l 5.00	mg/l 5.02	% 100	% 90 0-110									
ulfate	5.00	5.05	101	90,0-110									
.1553075-01 (	Original Sample	(OS) - Mat	rix Spike (i	MS) • Matri	x Spike Du	plicate (MS	SD)						7
OS) L1553075-01 1	1/11/22 22:15 • (MS) R3	3860522-3 11/1	1/22 20:28 - (	MSD) R386052	22-4 11/11/22 20	0:45							The state of the s
inalyle	Spike Amount mg/l		MS Result mg/l	MSD Result mg/l	MS Rec.	MSD Rec %	Oitution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD %	RPD Limits	
Monde ullate	500 500	1320 181	1940 700	1900 689	123 104	116 102	1	90 0-110 90 0-110	E J5	E 15	171 159	20	y
.1553109-01 ()	uginal Sample	(OS) • Matr	iy Spike (N	(S) • Matrix	: Spike Dur	olicate (MS	(Cl						
วร) เารรสาด9-ดิเ าช	/11/22 22:33 · (MS) R3	860522-5 11/1	1/22 21:03 · (N	ISD) R386052	2-G 1V11/22 21:	21							
nalyle	Spike Amount	Original Result	MS Result	MSD Result	MS Rec:	MSD Rec	Dilution	Rec_Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	

ACCOUNT: PROJECT: SDG: DATE/TIME: PAGE:

WG1954855 Well Chemistry by Method 3500Cr-B

Chloride

Sulfate

50.0

50.0

66.5

QUALITY CONTROL SUMMARY

Method Blank (MB)

189

117

117

90 0-110

90.0-110

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E J5

Laboratory Control Sample (LCS)

(LCS) R3857357-2 (1/05/22 12:49

 Spike Amount
 LCS Result
 LCS Rec
 Rec Limits
 LCS Qualifier

 Analyte
 mg/l
 mg/l
 %
 %
 Complete

 Chromlum,Hexavalent
 0.200
 0.212
 106
 85 0-115
 85 0-115

L1552832-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1552832-01 11/05/22 12:49 · (MS) R3857357-3 11/05/22 12:50 · (MSD) R3857357-4 11/05/22 12:50

Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. Limits MSD Qualifier RPD RPD Limits Analyte nig/l mg/l ing/l mg/l Chromium, Hexavatent 0.200 HD 0.192 0.193 95.8 96.6 10.0-120 0.875 20

Sample Narrative:

OS: Sample not field filtered who 15min of collection Sample preserved in lab who 2.4hrs of collection

L1553075-02 Original Sample (OS) · Matrix Spike (MS) · Matrix Spike Duplicate (MSD)

(OS) L1553075-02 1V05/22 12:49 \* (MS) R3857357-5 1V05/22 12:50 \* (MSD) R3857357-6 1V05/22 12:50 Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec Rec Limits MS Qualifier MSD Qualifier RPD RPD Limits Analyte rng/l mg/l mg/l % Chromium, Hexavalent 0.200 ND 0,191 0.190 95.4 94.9 10 0-120 0.442 20

Sample Narrative:

OS: Sample not field fillered w/in 15min of collection Sample preserved in lab v/lin 24lius of collection

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ACCOUNT:

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DATE/TIME:

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### QUALITY CONTROL SUMMARY

			0.140	0.250										[3
L1554849-01 Orig	nal Sample	(OS) · Dup	olicate (	DUP)										L
(OS) L1554849-01 11/10/2	2 17:01 · (DUP) I	R3859732-3 11	/10/22 17:0	)2								- allie		 - F
	Original Result	DUP Result	Dilution	DUP RPD	OUP Qualifier	DUP RPD Limits								L
Analyte	nig/I	mg/l		%		%								15
KJeldalil Nitroyen, TKN	6.81	7.60		11.0		20								ii.
MEE ISSO OF The Con-														ĺ
L1554878-01 Origi														7
(OS) L1554878-01 11/10/2						DUP RPD			***************************************					-
Analyte	Original Result		Dilution		por Qualifici	Limits								l
Kjeldahi Nitrogen, TKN	111y/l 0.977	11/9/1 0,990	j)	1.32		%								L
•		-1220	17	1.32		20								9
Laboratory Contro	l Sample (Le	2S)												L
(LCS) R3859732-2 11/10/2		7 C-18 (19 C-19 C-19 C-19 C-19 C-19 C-19 C-19 C-											****	 
		LCS Result	LCS Rec.	Rec. Limits	LCS Quali	ller								
Analyte Kjeldahl Nitrogen, TKN	my/l 12.7	mg/l 13,5	% 106	%										
- yanaan maagen, ma	12.1	19.3	100	75.2-120										
L1554849-01 Oulois	ial Sanualo	108) Mala	in Calle	. # 100										
(OS) L1554849-01 11/10/22	2 17:01 - (MS) R3	859732-4 11/fr	ras isov	. (145D) • MOII	ix Shike I	Juplicate (N	ISD)							
	Spike Aniouni	Original Result	MS Result	MSD Result	M\$ Rec_	MSD Rec.	Dilutton	Rec Limits	MS Qualifier	MSD Qualifier	DDD		W.16.	57.5
Analyte Kjeldahl Nitrogen, TKN	ing/l	mg/l	ing/i	mg/i	vg.	%		«	ma Channes	M20 Contract	RPD	RPD L %	imits	
Ajejuani kiiroyen, TKN	5.00	6,81	12.5	11.9	N4	102	1	90,0-110	<u>45</u>		4.92	20	20	
Sample Narrative:														
Sample Narrative: MS: Matrix spike faiture due	to matrix interfere	nce.												

WG1956753 Wet Chemistry by Method 351.2 QUALITY CONTROL SUMMARY

PROJECT:

SDG:

L1554878-01 Original Sample (OS) • Matrix Spike (MS)

ACCOUNT:

(OS) LI554878-01 IVIO/22 17:09 - (MS) R3859732-7 IVIO/22 17:12 Spike Amount Original Result MS Result Dilution Rec. Limits MS Qualitier Analyle mg/I Ingri nig/l Kjeldahl Nitrogen, TKN 5.00 U.977 6.30 106 90.0-110

Tc

PAGE:

PAGE:

DATE/TIME:

### WG1954442

### QUALITY CONTROL SUMMARY

Wet Chemistry by Method 4500Cl G-2011

Spike Amount LCS Result

mg/l

1.04

mg/i

1,00

Chlorine,residual

LCS Rec

104

Rec. Limits

85 0-115

LCS Qualifier

11553075-01 Method Blank (MB) (MB) R3857035-1 1V04/22 12:38 MB Result MB Qualifier MB MDL MB RDL Analyte nig/( mg/l Chlorine,residual 0.0260 0.100 ³Ss L1553075-01 Original Sample (OS) • Duplicate (DUP) (OS) L1553075-01 11/04/22 12:38 · (DUP) R3857035-3 11/04/22 12:39 Cr Original Result DUP Result Dilutton DUP RPD **DUP Qualifier** Sr ⁵Sr Analyle mg/I mg/l % Chlorine,residual 0.930 0.999 7.15 20 (Q) Laboratory Control Sample (LCS) <sup>7</sup>GI (LCS) R3857035-2 11/04/22 12:38

ACCOUNT: PROJECT: SDG DATE/TIME: PAGE:

WG1958003

Wet Chemistry by Method 4500CN-E

### QUALITY CONTROL SUMMARY L1553075-02

Method Blank (MB)

(M8) R3860133-1 1V1V22 16:22 MB Resull MB Qualifier MB MDL MB RDL Analyte mg/l mg/I ma/l Cyanide U 0.00430 0.0100

Laboratory Control Sample (LCS)

(I.CS) R3860133-2 11/1V22 16:22

Spike Amount LCS Result LCS Rec Rec Limits LCS Qualifier Analyte mg/l Cvanide 0.100 0.0901 85 0-115

L1553100-02 Original Sample (OS) - Matrix Spike (MS) - Matrix Spike Duplicate (MSD)

(OS) L1553100-02 IMIV22 16:22 · (MS) R3860133:3 IMIV22 16:23 · (MSD) R3860133-4 IMIV22 16:23 Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec Limits MS Qualifier MSD Qualifier RPD RPD Limits Analyte ng/l mg/l rng/f mg/l Cyanide 0,100 ND 0.0747 0.0707 74.7 70.7 85 0-115 J6 J6 5.53 20

L1554365-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1554365-01 1VIV22 16:22 • (MS) R3860133-5 1VIV22 16:23 • (MSD) R3860133-6 1VIV22 16:23 Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec Dilution Rec. Limits MSD Qualifier RPD RPD Limits Analyte niy/I mg/l nig/i mg/l DV. Cyanide % 0.100 1.11 1.17 1.17 67.0 67.0 100 85.0-115 0.000 20

00281

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Tc

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5 Sr

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ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:

### WG1957241

Analyte

Phaspliorus, Total

Wet Chemistry by Method 4500P-E

### QUALITY CONTROL SUMMARY

mg/l

0.500

Spike Amount Original Result MS Result

mg/I

10.3

mo/l

9.61

(1553075-01 Method Blank (MB) (MB) R3B59736-1 1V10/22 18:37 MB Result MB Qualifier MB MDL MB RDL Analyte aig/l moff ma/l Phosphorus, Total U 0.0152 0.0500 3SS Laboratory Control Sample (LCS) (LCS) R3859736-2 11/10/22 18:37 Spike Amount LCS Result LCS Rec Rec Limits LCS Qualifler Analyte mg/l mgrl ⁵Sr Phosphorus, Total 0.500 0.482 96.4 80.0-120 L1553075-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1553075-01 11/10/22 18:37 + (MS) R3859736-3 11/10/22 18:37 + (MSD) R3859736-4 11/10/22 18:37 GI

MSD Nec

197

Dilution Rec. Limits

80 D-120

100

ACCOUNT:

PROJECT:

MSD Result

10.6

MS Rec

131

SDG:

DATE/TIME:

MSO Qualifier RPD

3.15

RPD Limits

20

PAGE:

Tc.

'Cr

WG1956628

Wel Chemistry by Method 5220D

### QUALITY CONTROL SUMMARY

L1553075-01

Method Blank (MB) (MB) R385883B-1 1V09/22 12:45 C MB Result M8 MDL MB Qualifier MB RDL Analyte Ang/I my/l rno/A Tc COD U 16.1 35.0 Ss Laboratory Control Sample (LCS) (LCS) R3858B3B-2 (M09/2212:45 <sup>1</sup>Cr Spike Amount LCS Result LCS Rec Rec Limits LCS Qualifier Analyte mg/l ngrl COD 500 521 80.0-120 Θι L1554354-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1554354-01 11/09/22 12:46 • (MS) R3858838-3 11/09/22 12:47 • (MSD) R3858838-4 11/09/22 12:47 GI Spike Amount Orlginal Result MS Result MSD Result MS Rec. MSD Rec Rec. Limits MS Qualifier MSD Qualifier RPD RPD Limits Analyte mg/i mgri rng/I mg/l % % COD 500 ND 536 551 104 107 80,0-120 2.79 20 L1554677-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1554677-01 11/09/22 12:46 · (MS) R3858838-5 11/09/22 12:47 · (MSD) R3858838-6 11/09/22 12:47 Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec Rec. Limits MS Qualifier MSD Qualifier RPD RPD Limits Analyte mq/i mg/l mg/f mg/l

500

94.1

616

621

104

105

80.0-120

DATE/TIME

0.701

20

### WG1956687 Wel Cliemistry by Method 5310C

### QUALITY CONTROL SUMMARY L1553075-01

Method Blank (ME	3)												
(MB) R3859854-1 (VO9/	22 14:06												
Analyle	MB Result mg//	MB Qualifier	MB MDL IIIg/I	MB RDL mg/l									
TOC (Total Organic Carbon)	0.282	2	0.270	0 700		185							
Laboratory Contro	l Sample (L	.CS)											
(LCS) R3859854-2 11/09/	22 14:22						-						
Analyte	Splke Amount mg/f	LCS Result	LCS Rec	Rec. Limits	LCS Qualifier								
TOC (Total Organic Carbon)	10.0	9.87	98.7	90.0-110									
L1554256-01 Origi (08) L1554256-01 11/09/2	2 19:51 · (MS) R	3859854-3 1/	09/22 15:37 •	(MSD) R38598	k Spike Du 54-4 11/09/22	plicate (MS 16:05	SD)						
Analyte	Spike Amount nig/I	Original Result mg/l	MS Resuli ing/l	MSD Result mg/l	MS Rec	MSD Rec.	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
TOC (Total Organic Carbon)	10.0	15.6	22,3	22.0	66,9	63,5	1	80,0-120	<u> JG</u>	<u> 16</u>	1.54	20	
L1554256-02 Orig	inal Sample	e (OS) • Mai	lrix Spike	(MS) • Matri	x Spike Di	inlicate (M	SDI						
OS) L1554256-02 11/09/													
Analyie	Spike Amount	Original Result	IAS Result	MSD Result	MS Rec	MSD Rec	Dilution	Rec. Limits	MS Quality	MSD Qualifier	RPD	RPD Limits	
TOC (Total Organic Carbon)	10.0	15.8	219	22.5	60,2	67.0	1	80 0-120	<u>J6</u>	<u>16</u>	3.06	% 20	

<u>JG</u>

20

ACCOUNT: PROJECT: DATE/TIME: PAGE: WG1955130 QUALITY CONTROL SUMMARY Wet Chemistry by Method SM 4500-H+B

L1553075-01 L1553133-01 Original Sample (OS) • Duplicate (DUP) (OS) L1553133-01 11/07/22 14:44 • (DUP) R3857989-2 11/07/22 14:44

Orlginal Result DUP Result Dilution DUP RPD DUP Qualifier DUP RPD Limits Analyle ρН 6.98 6.99 0.143 Sample Narrative:

OS: 6.98 at 20.50 DUP: 6 99 at 20.8C

L1554351-01 Original Sample (OS) - Duplicate (DUP)

(OS) L1554351-01 1V07/22 14:44 - (DUP) R3857989-3 11/07/22 14:44 Orlginal Result OUP Result Dilution DUP RPD DUP Qualifier DUP RPD Limits Analyte su % 100 pH 6.79 6.80 20

Sample Narrative: OS: 6.79 at 20.60 DUP: 6 8 at 20.4C

Laboratory Control Sample (LCS)

(LCS) R3857989-1 1V07/22 14:44

Spike Amount LCS Result Rec Limits LCS Qualifier Analyte su SU 6.00 6.00 100

Sample Narrative: LCS: 6 at 20.9C

PAGE:

ss Ss

Cr Sr Gl Al

### WG1957373

### QUALITY CONTROL SUMMARY (1553075-01

Wet Chemistry by Method SM4500NH3H

my/I

mg/l

NO

Method Blank (MB) (MB) R3859669-1 11/10/22 13:36 Cr MB Qualifier MB Result MB MOL MB RDL Analyte ma/i mg/l mg/l Te Ammonia Nitrogen Ü 0.0280 0.100 ³Ss Laboratory Control Sample (LCS) (LCS) R3859669-2 11/10/22 13:37 C۱ Spike Amount LCS Result LCS Rec. Rec\_Limits LCS Qualifier 5 Sr Analyle mg/l mg/l Su. Ammonia Nitrogen 5.00 5.12 102 80.0-120 'ର L1552331-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1552331-02 1V10/22 14:03 · (MS) R3859669-3 1V10/22 13:38 · (MSD) R3859669-4 1V10/22 13:40 GI Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Rec. Limits MS Qualifier MSD Qualifier RPD Analyle mg/t RPO Limits mg/l rng/l mg∕l Ammonla Hilrogen βAI 5.00 0.177 5.24 5 24 101 80.0 120 0.000 20

MSD Rec.

101

Dilution

Rec. Limits

80:0-120

MS Qualifier MSD Qualifier RPD

0.395

DATE/TIME:

RPD Limits

PAGE:

14

Ss

Cr

E<sub>Sr</sub>

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ACCOUNT:

SDG:

WG1953055

Wet Chemistry by Method SM5210B

Analyte

Ammonia Nitrogen

QUALITY CONTROL SUMMARY

L1553075-01

Method Blank (MB) (MB) R3857762-1 TV07/72 09:52

MB Result MB Qualifier MB MDL MB RDI Analyte mg/l mu/l BOD U 0.200 0.200

L1552882-02 Original Sample (OS) · Duplicate (DUP) (OS) L1552882-02 1I/07/2210:33 - (DUP) R3857762-4 1W07/2210:34

DUP RPD Linits Original Result OUP Result Dilution DUP RPD DUP Qualifier Analyte ma/i mg/| % % BOD 5:64 5.49 20

L1552513-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1552513-01 1VK0/22 14:04 • (MS) R3859669-5 11/10/22 13:41 • (MSD) R3859669-6 11/10/22 13:43 Spike Amount Original Result MS Result

пиц/1

5.05

MSD Result MS Rec.

PROJECT:

100

my/l

5.07

L1552764-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1552764-01 11/07/22 10:12 • (DUP) R3857762-3 11/07/22 11:38 Orlginal Result DDP Result Dilution DUP RPD DUP RPD Limits DUP Qualifier Analyte mu/l

rny/t RUD 1.07 24.6 20

Laboratory Control Sample (LCS) (LCS) R3857762-2 11/07/22 09:57

Analyte

Spike Amount LCS Result LCS Rec. Rec\_Limits

nig/[ ma/l 800 200 101 85-115

00284

ACCOUNT:

PROJEC1:

LCS Qualifier

DATE/TIME:

PAGE:

### WG1953060

### QUALITY CONTROL SUMMARY

Wet Chemistry by Method SM5210B L1553075-01 Method Blank (MB) (MB) R3857838-1 11/07/22 12:48 6.1 MB Result MB Qualifier MB MDI MB RDI Analyle nig/i mg/r mg/l Υc. CBOD U 0.200 0 200 3 Ss £1552768-01 Original Sample (OS) • Duplicate (DUP) (OS) L1552768-01 IV07/22 13:05 - (DUP) R3857838-3 1V07/22 13:37 'Cr Original Result DUP Result Dilution DUP RPD DUP RPD Limits DUP Qualifier ⁵Sr Analyte nig/l mg/t % CROD ND ND 20 Q L1552866-01 Original Sample (OS) • Duplicate (DUP) 7GI (OS) L1552866-01 11/07/22 13:52 · (DUP) R3857838-4 11/07/22 13:38 Original Result DUP Result Dilution DUP RPD DUP RPD **UUP Qualifier** Analyte mg/l ingil % CBOD 1,37 133 2.96 63 20 "Sc Laboratory Control Sample (LCS) (LCS) R3857838-2 11/07/22 12:53 Splke Amount LCS Result LCS Rec. Rec. Limits LCS Qualifler Analyte mg∤l mg/l CBOD 198 204 85-115 ACCOUNT: PROJECT: DATE/TIME: PAGE: WG1959240 QUALITY CONTROL SUMMARY Mercury by Mailiod 245.1 L1551075-02 Method Blank (MB) (MB) R3860864-1 11/14/22 14:34 MB Result MB Qualitier MB MDL MB RDL mg/i my/l Тс 0.000114 0.0000450 0.000200 ³Ss Laboratory Control Sample (LCS) (LCS) R3860864-2 11/14/22 14:41 Cr

Mercury

Spike Amount LCS Result LCS Rec. LCS Qualiller Analyte mg/I mg/l Mercury 0.00250 0.00235 94.0 85,0-115

L1552825-01 Original Sample (OS) + Matrix Spike (MS) + Matrix Spike Duplicate (MSD)

(OS) L1552825-01 1VI4/22 14:43 • (MS) R3860864-3 1VI4/22 14:45 • (MSD) R3860864-4 1VI4/22 14:47 Spike Amount Orlginal Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. Limits M5 Qualifier MSD Qualifier Analyte RPD RPD Limits mg/f mg/l mg/I mg/l Mercury 0.00250 ND 0.00164 0.00145 62.2 54.6 70.0-130 16 12.3 20

L1552825-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD) (OS) L1552825-02 1V14/22 14:49 · (MS) R3860864-5 1V14/22 14:52 · (MSD) R3860864-6 1V14/22 14:54

Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD Limits Analyte mg/l mg/f mg/l ų, Mercury 0.00250 0,00246 0.00241 94.8 92,8 70.0-130 2.05 20

PAGE:

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### QUALITY CONTROL SUMMARY

Method Blank (MB) (MB) R3859632-1 11/10/22 15:33 MB Result MB Qualifier MB MDL MB RDL Analyte nıy/i mg# mg/l Aluminum 0.0563 0,0353 0.500 Antimony U 0.00242 0 0250 Arsenic U,0041B 0.0200 Barium U 0.000490 0.0100 9eryNlum 0.000249 0.000180 0.00100 Boron 0.0186 0.100 Cadmium U 0.000350 0.00500 Calclum 0.0496 100 Chromium U 0.000710 0.00700 Copper 0.00425 0.00364 0.0200 Lead U 0.00312 0.0100 Magneslum U Nickel U 0.00358 0 0100 Selenium u 0.00500 0.0200

0.000990

0.178

0.00775

0,0106

0.00500

1.00

0.0200

0.0250

PROJECT:

Tc 3 Ss 4 Cr 5 Sr 7 Gl 4 Al 9 Sc

Laboratory Control Sample (LCS)

Sadium

Thallium

Zinc

U

(LCS) R3859632-2 11/1	0/22 15:38			-		
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyle	my/l	mg/l	50	%	<del></del>	
Aluminian	10.0	9.88	98.8	85.0-115		
Anlimony	1.00	0.966	96.6	85.0-115		
Arsenic	1.00	0.937	93.7	85_0-115		
Barium	1.00	0.973	97.3	85.0-115		
Beryllium	1.00	0.954	95.4	85.0-115		
Boron	1.00	0.932	93.2	85.0-115		
Cadmlum	1.00	0.993	99.3	85,0:115		
Calcium	10.0	10.1	101	85,0-115		
Chromlum	1.00	0.965	96.5	85,0-115		
Copper	1.00	0,970	97.0	85,0-115		
Lead	1.00	0,989	98.9	85.0-115		
Magnesium	10.0	9.87	98.7	85 0-115		
Nickel	1.00	1.01	101	85 0-115		
Selenium	1.00	0.943	94.3	85,0-115		
Silver	0.500	0.482	96.3	85.0-115		

WG1956373 Metals (ICP) by Method 200,7

### QUALITY CONTROL SUMMARY

Laboratory Control Sample (LCS)

ACCOUNT:

(LCS) R3859632-2 11/10	0/22 15:38				
	Spike Amount	LCS Result	LCS Rec.	Rec_Limits	LCS Qualifier
Analyte	mg/I	mg/l	, o	%	
Sodlum	10.0	9.96	99.6	85.0-115	
Thallium	1.00	1.06	106	85.0-115	
Zinc	1.00	0.977	97.7	85.0-115	

L1554984-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1554984-01 11/	10/22 15:43 • (MS) R	3859632-3 1/	10/22 15:48 •			16:14	30)						
				MSD Result	MS Rec	MSD Rec	Dilutton	Rec. Limits	MS Qualifier	MSD Qualities	200	/////	
Analyte	mg/l	ing/l	mg/l	mg/l	DY.	%		%	in a commen	wan Allumber	RPD	RPD Limits	
Aluminum	10.0	1.35	13.4	14.0	120	127	7.	70.0-130			%	%	
Antimony	1.00	HD	101	0.985	101	98.5	7.				4.82	20	
Arsenic	1.00	ND	1.03	0,999	101	98.5	*	70.0-130			2.95	20	
Barlum	1.00	4.94	6.98	8.31	203	337	4	70.0-130			2.90	20	
Boron	1.00	ND	1.05	1.11	97.1	103	- 1	70,0-130	<u>V</u>	$\overline{\lambda}$	17.4	20	
Cadmium	1.00	ИD	103	1.01	103	101	- 2	70,0-130			5.73	20	
Calcium	10.0	113	133	144	208	311		70,0-130			2.45	20	
Chromium	1.00	HD	0.978	0.958	97.5	95.6	1	70,0-130	<u>V</u>	<u>y</u>	7.43	20	
Сорреі	1.00	0.0384	1.04	109	99.9		Ŋ	70.0-130			2.04	20	
Lead	1.00	0.0729	0.907	0.889	83.4	105	8	70.0-130			5.26	20	
Magnesium	10.0	33.8	46.3	50.4		81,6	ħ.	70.0-130			2.08	20	
Nickel	1.00	ND	101	0.986	125	165	1	70.0 130		<u>دال</u>	8.36	20	
Selenium	100	0.0254	1.03	0 985	101	98.1	<b>X</b>	70.0-130			2.46	20	
Silver	0.500	ND	0.504		100	96.0		70.0-130			3.95	20	
fhallium	1.00	ND		0.493	101	98.5	1	70.0-130			2.25	20	
Zinc	1.00	0.0578	0.966	0.944	96.6	94.4	1)	70 0-130			2.29	20	
	100	0.0370	1.06	102	99.7	96.5	10	70.0-130			3.08	20	

L1554984-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1554984-02 1V	10/22 16:19 • (IAS) R	3859632-5 11/	0/22 16:24 •	(MSD) R385963	2-6 11/10/22 1	16:30							
	Spike Amount	Orlginal Result	MS Result	MSD Result	NIS Rec	MSD Rec	Ditution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	ing/t	ng/l	mg/l	mgA	16	%		ų,	2.0.000	man diministr	NFD N		
Aluminum	10.0	ND	0.7	10.6	113	102	1	70.0-130			0.24	8	
Antimony	1.00	ND	1.00	0.964	100	96.4	1	70 0-130			9.34	20	
Arsenic	1.00	ND	0.983	0.955	97.6	94,7	9	70.0-130			3.87	20	
Barium	1.00	12.1	14.4	13.1	228	102	4	70.0-130	V		2.96	20	
Boron	1.00	НD	1.03	0.943	103	94.3	4	70.0-130	Ť.		9.17	20	
Cadmium	1.00	ND	1.03	0.985	103	98.5	20	70.0-130			8.54	20	
Calcium	10.0	13.6	26.1	23.5	126	99.5	4	70.0-130			4,15	20	
Cliromium	1.00	ND	0.947	1.09	94.5	109	4	70:0-130			10.5	20	00286
15							*111	70.0-130			14.3	20	00200

ACCOUNT:

PHOJECT:

SUG:

DATE/TIME:

DATE/TIME:

PAGE:

### QUALITY CONTROL SUMMARY

L1554984-02 Original Sample (OS) · Matrix Spike (MS) · Matrix Spike Duplicate (MSD)

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	00011 16
nalyle	nig/I	my/f	mg/l	mg/l	%	%		92	in a triminer	M30 Ottamer	KPU	RPD Limits
opper	1.00	ND	1.08	0.994	106	97.5		70.0.00			%	%
ead	1.00	0.0150	1.03	0.990			- P	70 0-130			8.35	20
lagnesium					102	97.5	3	70.0-130			4.07	20
-	10.0	124	12.2	110	110	97.2	1	70.0-130			10.B	20
lckel	1.00	ND	1.04	1.00	104	100	3	70.0-130				
elenium	1.00	0.0218	0.994	0.999	97.2	97.8					4.31	20
lver	0.500	ND	0.471					70 0-130			0.542	20
nallivm				0.547	94.2	109	1	70.0-130			14.9	20
	1.00	ND	1_10	1.06	110	106	1	70.0-130			4.18	
inc	1.00	0 0517	1.05	1.01	100	95.7	(i)				4.16	20
				1.01	100	95.7	N.	70.0 130			4.36	20

L1554984-01 Original Sample (OS) · Matrix Spike (MS) · Matrix Spike Duplicate (MSD)

(OS) L1554984-01 IVI	1/22 11:22 · (I/IS) R38	859968-3 11/11	/22 11:28 · (N	ISD) R3859968	4 11/11/22 11:33							
Ånalyte	Spike Amount				MS Rec.	MSD Rec	Ditution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Beryllium	mg/l 1.00	mg/l	mg/li	mg/l	20	%		4.			%	%
Sadium	10.0	NO 324	0.81B 284	109	81,8	109	5	70 0 130		<u>J3</u>	28.9	20
	10,0	324	264	380	0.000	562	5	70.0-130	<u> </u>	73 A	29.1	20

L1554984-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) LISS4984-02 TVIV22	11:38 + (MS) R3	859968-5 11/1	H22 II:43 · (MS	D) R3859968-	6 11/11/22 11:48							
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec	Dilution	Rec. Limits	MS Qualifier	MSD Qualifler	RPD	RPD Limits
Analyte	nig/I	mg/l	mg/l	mg/l	W .	%		tag	TOW WOOMING	more originales	RF U	
Beryllium	1.00	MD	1.03	0.964	103	DC 4		~			%	%
Sodium	10.0					96.4	1	70.0-130			6.57	20
DODANIA	10.0	3.19	14.6	13.6	114	104	1	70.0-130			7.39	20

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:

Tc

¹Ss

Sr

Or GI

AI Sc

WG1959919

Metals (ICP) by Method 200.7

### QUALITY CONTROL SUMMARY

Method Blank (MB) (MB) R386374B-1 1/21/22 19:17

, , , , , , , , , , , , , , , , , , , ,				
	MB Result	MB RDL		
Analyle	my/I		nig/(	ing/l
Calcium,Dissolved	0.164	Ť	0 0496	1.00
Magnesium Dissolved	U		0.0434	1.00
Sodium, Dissolved	U		U.178	1.00

Laboratory Control Sample (LCS) (LCS) R3863748-2 IV2V22 I9:22

	Calles Asses	1000			
	Spike Amount	LCS Result	LCS Rec	Rec Limits	LCS Qualiller
Analyte	my/i	mg/l	ç,	%	
Calclum_Dissolved	10.0	10.2	102	B5.0-115	
Magneslum, Dissolved	10.0	9.38	93.8	85 D 115	
Socilum,Dissolved	10.0	10.5	105	85.0-115	

L1553075-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(05) (1553075-01 11/21/	22 19:27 • (MS) R	3863748-3 11/2	21/22 19:32 • (	MSD) R386374	8-4 11/21/22 1	9:37					11-11-11-11-1	
	Spike Amoun!	Original Result	MS Result	MSD Result	M5 Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	000	
Analyte	mg/l	ing/l	ıng/l	mg/l	%	%		%	and opposition	PIZO Original	RPD	RPD Limits
Calclum, Dissolved	10.0	55,4	63.5	66.2	80.6	108	1	70.0-130			70	%
Magnesium, Dissolved	10.0	37,5	45.5	46.4	80.9	89.2	1	70.0-130			4.24	20
						DU. L	'	10.0-130			1.81	20

L1553075-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1553075-01 11/28/22	10:5B · (MS) R:	3865519-1 11/2	8/22 11:03 · (M	SD) R3865519	2 11/28/22 17:0	9					-		
		Orlginal Result		MSD Result	MS Rec.		Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	nno district	
Analyte	mg/l	mg/l	nig/l	ngA	\$	%		%	and demine)	WIDO GRAMMET	α. α.	RPD Linklis	
Sadium,Dissolved	10.0	1000	1100	1090	940	820	20	70 0 130	V	٧	110	70	

## GLOSSARY OF IERMS

## Guide to Reading and Understanding Your Laboratory Report

Guide to Reading	Guide to Reading and Understanding Your Laboratory Report	
The information below intended as a comproh	The information below is designed to better explain the verbus terms used in your report of preyrical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contect your project representative.	Ď
Results Disclaimer - Inf Sample ID, Sample Mai Sampling Location, Res	Results Disclaimer - Information that may be provided by the customer, and contained within this report include Permit Limits, Project Name, Sample Dis Sample Mustices and Sample Preservation, Fleet Blanks, Field Spikes, Field Dubitscase, On-Site Data, Samplein Collection Dates/Times, and Sample Dis Sample Preservation, Project Name, and Sampleing Location Results related to the accuracy of this information provided and as the samplest are retained.	1
Abbreviations and Definitions	nd Definitions	N,
MDC	Method Detection Limit.	
NO	Not detected at the Reporting Limit (or MDL where applicable).	੍ਹਾਂ
RDL	Reported Detection Limit	(
Rec.	Recovery.	Ji I
RPD	Relative Percent Difference.	Ŋ
SDG	Sample Delivery Group	
C	Not detected at the Reporting Limit (or MDL where applicable).	Ď.
Analyte	ome Analyses and Methods will have multiple analytes	9
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of enalytiss in the sample are higher than the highest limit of concentration that the laboratory can accurately report the sampler ray be diffused for analysis. If a value different than I is used in this field, the result reported has already been corrected for this factor.	<u></u>
Umits	These are the draps % receivery ranges or % difference value that the laboratory has historically determined as normal for the method and analyse being reported. Successful OC Sample analysis will target all analytes recovered or duplicated within these things.	°   <u>Þ</u>
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.	SC

Abbreviation	Abbreviations and Definitions
MDC	Method Detection Limit.
NO	Not detected at the Reporting Limit (or MDL where applicable),
RDL	Reported Detection Limit.
70°C	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group
C	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported
Dilution	If the sample mastix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of arelysis in the sample are higher than the highest limit of concentration that the abouting can accustately report, the sample may be distent of analysis. If a value different than the used in this field, the result reponed has already been corrected for this factor.

Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a licitar and/or number consignation that corresponds to additional information concerning the result reporting if a Qualifier is present, a destration per Qualifier is provided within the Glossay and Definitions page and potentially a discussion of possible implications of the Qualifier in an example in page propriets the content of the potentially and discussion of possible implications of the Qualifier in the Case Naturative in adopticable.
Result	The actual halphool final result (corrected for any sample specific pharacteristics) reported for your sample. If there was no measurable creatly returned for a specific analyse, the result in this column may state "ND" (No. Discassing on "NDL" (Below December Levels). The information in the results column should aways be accompanied by safety as a NDL.

Uncertainty (Radiochemistry)	Result
Confidence level of 2 signa.	The actual enalytical intol casus (contracted for any shample specific characteristics) proported by your sample. If there was no measywhat result, returned to a specific anylog, the result in this column may state "NO" (Not theread on "SDL" Below Descended everysh). The information in the results column should aways be accompanied by ather an MOL (Melthod Descended Limit) or ROL (Reporting Description Limit) and ROL (Reporting Description Limit) that defines the lowest value that the laboratory could detect or report for this markyte.

Ω
(A)
IO
QJ.

Quality Control Summary (Oc)	Case Narrative (Cn)
This section of the report includes the results of the liaboratory quality statuted analyses required by procedure or analytical methods to assign in evaluating the validity of the results reported the your samples. These analyses are not being performed on your samples, typically, but on laboratory agenerated movement.	A birsif discussion about the included sample results, including a discussion of any nan-conformances to protocol observed striet or sample receipt by the laboratory from the field of during the analytical process if present, there will be a section in the Case Noviewher of discuss the majoring of any data qualifiers used in the report.

Sample Results (Sr)	
This section of your report will provide the results of all testing performed on your samples. These results are provided by sample. It and are supported by the enabysis section for each sample, the header line of each analysis section for each sample, the header line of each analysis section for each sample this provide the family sample the header is reported.	The state of the second of the state of the

to the second second	Sample Summary (Se)
reparation and/or analysis.	il Report defines the specific analyses performed for ea

Qualifier	Description
an	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
_	The identification of the analyte is acceptable; the reported value is an estimate.
L <sub>S</sub>	The associated batch QC was cutside the established quality control range for practsion
J5	The sample matrix interfered with the ability to make any accurate determination, spike value is high.
6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
K9	Test replicates show more than 30% difference between high and low values,
Þ	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
Ø	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
13	Sample(s) received past/too close to holding time expiration.
<	The sample concentration is too high to evaluate accurate spike recoveries.

ACCOUNT:

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ACCOUNT:

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## ACCREDITATIONS & LOCATIONS

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Alaston	47076	THE PERSON NAMED IN COLUMN NAM	NE-03-15-05
AldSXQ	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-WELAP	TNOOZ
California	2932	New Mexico 1	TNODOO3
Colorado	TNOODOG	New York	11742
Connecticul	PH-0197	North Carolina	Env375
Florida	E97487	North Carolina *	DW21704
Gargia	NELAD	North Carolina 2	47
Georgia *	923	North Dakota	R-140
Idaho	TNG0003	Ohio-VAP	CL0069
Hingis	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky 16	KY90010	South Carolina	84004002
Kenlucky *	75	South Dakota	r/s
Louisiana	AI30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TNODOOJ	Texas 5	LABOIS2
Maryland	324	Ulah	TND00032021-F
Massachusells	M-TN003	Vermont	VT2006
Michigan	8556	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	958093910
Montana	CERT0086	"Myoming	AZLA
AZLA - ISO 17025	1461,01	からなしなり ここの 日本になっ	100789
AZLA - ISO 17025 '	1451.02	DOD	1461,01
Canada	1461,01	USDA	P330-15-Q0234
EPA-Crypto	TN00003		

# Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas Florido Iowa Louisiana
82-04/7 82771/8 408 308-86
Kansas Tekas Oklahoma
E10388 T104704232-22-37 8727

# Pace Analytical Services, LLC -Dallas 2657 Gravel Dr Ft. Worth, TX 76118 Teos.

<sup>\*\*</sup>Dmiking Water \*\*Underground Strage Tanks \*\*Aquatic Toxidgy \*\*OherricolMicrobiological \*\*Acod \*\*Mastewater - rib Accoditation not applicable 
\*\*Not all contributions hold by the laboratory are applicable to the results reported in the altrached report.

\*\*Accorditation is only applicable to the less motheds specified on each scope of accorditation held by Pacc Analysical.

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Concerted by (signature): Zane Frotter	Same D	Lab MUST Be ay five i	Daγ	Quote #			CHLORR 500mlHDPE-NoPres	Ca, Mg, N	FTWFC Microbiological	TKN 250mIHDPE-H2SO4	Total Metals 250miHDPE HNO3	500mlHDPE-NoPres	3			Acctnum: D Template: To Prelogin: P9	
Packed on Ice N Y Sumple ID	Two Da	Y 10 Da	y (Rad Only)	рате нез	ults Heeded	No. of	DRR 50	Dissolved C	-C Mic	250mlF	Metals	hет 50				PM: 921 - Rea PD:	gan Johnson
	Comp/Grab	Matrix *	Depth	Date	Time	Entes	CHE	Disso	FTWI	TKN	Total	WetChem	- 53	Ċ		Shipped Via: Armuks	FodEX Priority    Sample # (lab only)
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Documer Sample Condition	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	ent No.:	Issuing Authority:
Sample Condition U	Sample Condition Upon Receipt	Pace Dallas Quality Office
□ Dallas ☑ Ft Worth	ח ⊡Corpus Christi	ti 🗆 Austin
Client Name: Enviro – $\Lambda_{\zeta}$ Courier: FedEX $\Box$ UPS $\Box$ UPSPS of Client of LSO $\Box$ PACE $\Box$ Other: Tracking #:	Project Work order (place label): Other:	(label): 1553075
Custody Seal on Cooler/Box: Yes D No & Received on ice: Wet & Blue D No ice D Receiving Lab 1 Thermometer Used: FWTM03 Cooler Temp C: 1.8 Receiving Lab 2 Thermometer Used:	F .	(Recorded) -0.5 (Correction Factor) 1, 5 (Actual) (Recorded) O.S (Correction Factor) Q.O (Actual)
Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable	ame day as receipt in	which evidence of cooling is acceptable
Triage Person: 人山 Date: 11/レ/パン	1	
Chain of Custody relinquished	Yes & No a	
Sampler name & signature on COC	Yes & No D	
Short HT analyses (<72 hrs)	Yes & No ::	
Login Person: 5 W Date: 11 3/23		
Sufficient Volume received	Yes 🛪 No 🗆	
Correct Container used	Yes Ø No a	
Container Intact	Yes & No a	
Sample pH Acceptable pH Strips: Residual Chlorine Present	Yes d No D N	NA O
tate Strip	Yes a No b N	NA O
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PSI Program TPH)	Yes O No O N	NA,G
Unpreserved 5035A soil frazen within 48 hrs	Yes D No D N	NA Ø
Headspace in VOA (>6mm)	Yes a No a N	NA &
Project sampled in USDA Regulated Area outside of Texas	Yes O No O	NA &
State Sampled:		
Non-Conformance(s);	Yes D No D	

Yes D No D

Date:

Labeling Person (if different than log-in):

Enviro-Ag Engineering			Withing to le	nation		1		-		Apatrasa	/, Conta	toet / P	escevas	ii C			Chan of Custo,	ty Fage t of
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offected by (signature):		(Lab MUST Be		Quate H			D,NH	JPE N	- JOPE	IDPE.	RE 50	-Аттр	НОРЕ	PE N	Amp	PE-Nc	Accinom: D: Templatu: 72	XTGDIVAS
JAME ZISTER  TITURE OLI TITURE OL	heat I	Day 50a 0ay 50a 0ay 100	(Raid Only)	Unite Reso	HI Heeded	Ma	PHOS, COD, NH34500	0.1L-H	ALLCBOD 1L-HDPE NoPres	4LLCN 250mlHDPE-NaOH	CR3.ALLCR6 500miHDPE-NoPres	OGHEX 1L	ALLSAR 250miHDPE-HNO3	1L-HDPE NoPres	250mlAmb-H2SO4	1L-HDPE-NoPres	Prelogin: Pg: PM: #23 - Reag	58060
Sample ID	Comp/Grab	71-11	Depth	Dŷle	Time	oa Kettrs	A FE	ALLEOD	TLCBC	LLCN	ALLCRI	ALLOGH	LLSAR	ALLTDS	ALLTOC	ALLTSS	Shipped Via: 1	edEX Priority
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Enviro-Ag Engineering					Donning (A)	urmikka			1				Apatrisis	/Conta	tet/in	S. Helyai	ne.			True of Cutto	or 144 of
3404 Alaway Blvd. Amerillo, TX 79718	1					Aullin rway Bly o, TX 701			Pres Chk								-			,86	) ce Analytical
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offected by (print)		Site/facility	) i0 #			FO. F				ON-EC	Na 250	Cal	2504	DPE ;	500mIHDPE-NoPres					Table II	
Cance Manager	,	Rush?			Motified	Quote	R			iGHP)	Ca, Mg, N	biołogi	PE-H	50mil-	MIHD					Template: 72	
mmodately Packed on Ice N Y			Day.	504	(Diad Dist <sub>e</sub> ) og Hind Oct <sub>e</sub> )	0	ie Resulf	Heened	ina	CHLORR SOOMHDPE-NoPres	ed Ca,	FTWFC Microbiological	TKN Z50mlHDPE-HZSO4	Total Metals 250milHDPE HNO3	3rn 50C					Prekogle: Pô PM: 623 - Gaze Pô:	
Sample ID		Comp/Gra	D A	datur .	Depth	0	Me	Time	Entra	CHLOI	Dissolved	FTWF	TKN 25	Total M	WetChem					******	FedEX Priority
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Matria: k-Suit Alfk-Arr F-Filler	Berna	irks: Wall	Chem	= Cl, F,	<b>кол</b> h	H, SPCC	N, and	SO4 "Nike	le = 48	lir hol	ļ., l	==							Saved	e Parellet C	1
W - Groundwater B - 8:0assay W - WasteWater W - Dwidsing Water	FULL	1 HINGE	115 = Ag 245,1	, Al, As, H	i, Bo, B,	Ca, Cr,	Cu, Ni, Pb,	Sb. Se,	TI, am	I Zn by	200,7						bottle	ancaya	g Percipt C) samp/Intact courage ive inpact		
-Other		les returne 5 FedE		Courler			Trucking			60								Suffic	inge v	les used; olune west; II.Auglicate	_ =
Same Frolling (Signature)	******	-	1/0	2/20	II CCC	15	10000	a or (Signati	ne)	19		Ti	ip ճարև	Receiv		s/No	aH	Presur	vactus	depaces Correct/Che D-S sd/hr:	¥
hoguished by (Signatury) Singa Heman In Algan		6	láte	2/2	1 12	AS	TOY!	Aso	7	P	EE	Te	entge:	°C	Bucul	un 18 Hecese	W.	it prese	rvation	required by top	pa: Data/Time
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Sample Condit	Sample Condition Upon Receipt	Fake 1 of 1
<u> </u>	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Dace Ballas Ovality Office
Sample Con	Sample Condition Upon Receipt	ij.
ODallas RFt Worth	th Corpus Christi	i 🗆 Austin
Client Name: Envino T入人 Courier: FedeXib UPSib USSib Client にSOID PACED Other. Transland:	Project Work order (place label); Other,	
ite: Wet e 3lue a No de les Wet e Blatthermometer Used: PWTM03	1	(Recorded) -0.5 (Correction Factor)   S (Actual)
l land	Cooler 1 emp 'C: O-	ed) -0.1 (Correction Factor) Q Q (Actual) thick evidence of cooling is accommistic
Triage Person: AL Date: 11/12/12		
Chain of Custody relinquished	Yes Z No E	
Sampler name & signature on COC	Yes & No c	
Short HT analyses (<72 hrs)	Yes & No 3	
Login Person: V Date 11 1917.3	t!!	
Sufficient Volume received	Yes of No E	
Correct Container USed	Yes & No C	
Container Intact	Yes No o	
Sample pH Acceptable (FI(IO) PH Strips: Residual Chlorine Present (HSCO)	Yes of No of NA	u o
tate Strip	Yes = No = NA	ā
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes o No o NA,	2
Unpreserved 5035A soil frozen within 48 hrs	Yes a No a NA	1/2
Headspace in VOA (>6mm)	Yes o No o NA	ę,
Project sampled in USDA Regulated Area outside of Texas State Sampled:	Yes a No a NA	NA Z
Non-Conformance(s):	Yes No 2	



# Pace Analytical ANALYTICAL REPORT

January 12, 2023

## Enviro-Ag Engineering

Samples Received: Sample Delivery Group: Project Number: L1562686

12/01/2022

3404 Airway Blvd Amarillo, TX 79118 Jourdan Mullin

Report To:

Description:

Entire Report Reviewed By: Hargan Alex

Reagan Johnson Project Manager

Route rickle style brit characteristic is calcificated and extraordist in method violate. This bot root is all not an opportunity described by the bot of the plant of the pla



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Wet Chemistry by Method 3500Cr-B Wet Chemistry by Method 300\_0 Wet Chemistry by Method 1654A Wet Chemistry by Method 120.1 Gravimetric Analysis by Method 2540D Gravímetric Analysis by Method 2540C

Wet Chemistry by Method 351,2

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Enviro-Ag Engineering ACCOUNT:

PROJECT

SDG: L1562686

DATE/TIME: 0V/2/23 It.DZ

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Qc: Quality Control Summary Sr: Sample Results Cn: Case Narrative Ss: Sample Summary To: Table of Contents Cp: Cover Page SCHREIBER 3 L1562686-02 Microbialogy by Method 9222D SCHREIBER 3 L1562686-01

10 11 12 13 15 16 16 17 17 17 19 20 20 20 20 22 22 23 23 24

Wet Chemistry by Method 52200

Wet Chemistry by Method 4500P-E Wet Chemistry by Method 4500CN-E Wet Chemistry by Method 4500CI G-2011

Wet Chemistry by Method SM 4500-H÷B Wet Chemistry by Method 5310C

**3**4

Sc: Sample Chain of Custody Al: Accreditations & Locations

Metals (ICP) by Method 200.7

Mercury by Method 245.1 Wet Chemistry by Method SM52108 Wet Chemistry by Method SM4500NH3H















			Conference by	Collection date/time   Received date/time	<ul> <li>Received c</li> </ul>	Taley lime	
SCHREIBER 3 L1562686-01 WW			Zane Trotter	12/07/22 09:16	12/01/22 10:47	:47	9
Method	Birtch	Drlution	Preparation	Analysis	Analyst	Location	Ĺ
			dale/time	dale/lime			
	WG1969277	-	12/01/22 14:58	12/02/22 14:58	CNC	Ft. Worth, TX	Ċ
Calculated Results	WG1973314	-	12/22/22 15:01	12/22/22 15:01	JLG	Allen, TX	
Calculated Results	WG1971247	_	12/15/22 11:45	12/15/22 11:45	Clic	Allen, TX	S,
Gravametric Analysis by Method 2540C	WG1968709	_	12/03/22 07:28	12/02/22 09:55	907	Allen, TX	198
GravimeInc Analysis by Method 2540D	WG1969073		12/04/22 14:08	12/04/22 15:22	001	Allen, TX	)
Wel Chemistry by Method 120.1	WG1968970	-	12/04/22 02:24	12/04/22 08:24	700	Allen, TX	=
Wel Chemistry by Method 1654A	WG1974310	<b>~</b>	12/14/22 16:28	12/15/22 11:10	7	Allendix	][
Wel Chemistry by Method 300.0	WG1967877		12/02/22 17/34	12/02/22 17:34	ទ	Allen, TX	รั้
Wet Chemistry by Method 300,0	WG1962405	-	12/02/22 15:25	12/02/22 15:25	<u> </u>	Allen, TX	
Net Chemistry by Method 300.6	WG1968405		12/02/22 19:36	12/02/22 19:36	EG	Allen TX	֖֖֖֖֖֖֖֖֖֓֞֞֟֟֝֟֟֟֟֟֟֓֓֓֓֟֟֓֓֓֟֟ <u>֚</u>
Wel Chemistry by Method 351.2	WG1972020	_	12/15/22 00:16	12/15/22 11:45	CAG	Mt Juliet TN	
Het Chemistry by Method 450001 G-2011	WG1968658	-	12/02/22 23:10	12/02/22 23:10	TCP	Mt, Juket, TN	
Wel Chemistry by Method 4500P-E	WG1973139	50	12/14/22 17:22	12/14/22 17:22	KCM	Allen, TX	<u></u>
Wel Chemistry by Method 5220D	WG1970622	_	12/07/22 12:04	12/07/22 18:10	SMC	Allen, TX	
Wel Chemistry by Method 5310C	WG1969822	UI	12/06/22 13:26	12/06/22 13:26	8	Allen, TX	**
Wel Chemistry by Method SM 4500-H+B	WG1974607	_	12/14/22 20:00	12/14/22 20 00	SMC	Allen, TX	)
Wel Chemistry by Method SM4500NH3H	WG1971247	10	12/08/22 13:55	12/08/22 13:55	EIG	Allen, TX	
Wet Chemistry by Method SM52106	WG1968313		12/02/22 12:10	12/07/22 08:56	SMC	Allen, TX	S
Wel Chemistry by Method SM5210B	WG1968398	-	12/02/22 13:55	12/07/22 09 51	SMC	Allen, TX	
Metals (ICP) by Method 200,7	WG1973314		12/13/22 08:22	12/22/22 14:34	IJĠ	Allen, TX	
Metals (ICP) by Method 200.7	WG1973314	20	12/13/22 08:22	12/22/22 15:01	I.G	Allen, IX	
Wetals (ICP) by Method 200.7	WG1977205		12/20/22 11:19	12/21/22 14:30	E)S	Allen, TX	
Metals (ICP) by Method 200.7	WG1977205	22	12/20/22 11:19	17/77/77 17:08	1	All nell A	

mple alliquots were received at the correct temperature, in the proper containers, with the praint preserverives, and within method specified holding times, unless qualified or notated within part. Where applicable, all MDL (LCD) and RDL (LCD) you was reported for environmental samples seen corrected for the distillution fector used in the analysis. All Method and Bastin Quality Control thin established criteria except where addressed in this case narrative, a non-conformance form perly qualified within the sample results. By my digital signature below, I affirm to the pest of my pegg, all problems anomalies observed by the laboratory, and no information or data have been dentified by the siboratory, and no information or data have been a dentified by the siboratory, and no information or data have been and public of the quality of the data.

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Mercury by Method 245.1
Metals (ICP) by Method 200.7
Metals (ICP) by Method 200.7

WG1968292 WG1974381 WG1970463 WG1970134 WG1963292 WG1963292 WG1968292

date/fime 12/15/22 11:00 12/15/22 11:00 12/07/22 08:54 12/05/22 15:34 12/02/22 10:41 12/02/22 10:41

date/time 12/15/22 11:00 12/15/22 11:00 12/07/22 15:15 12/07/22 14:15 12/03/22 17:15

Allen, TX

12/02/22 10:41

12/22/22 16:04

Metals (ICP) by Method 2007

Wet Chemistry by Mitched 3500Cr-8
Wet Chemistry by Method 4500CN-E

Calculated Results

SCHREIBER 3 L1562686-02 WW

Batch

Collected datefung 12/01/22 09/10

12/01/22 10:47 Analyst

Enviro-Ag Enginitering ACCOUNT: PROJECT: SDG: L1562686 DATE/TIME 0V/2/23 11:02

PAGE:

Enviro-Ag Engineering ACCOUNT:

PROJECT:

L1562686 SDG:

DATE/TIME

PAGE:

Analyte         Reput         Qualifier         RD         Dilution Analysis         Batch           Chborne_leyiduni         ND         TS         0.00         1         12/02/027 23:00         WST968668           ACCOUNT:         PROJECT:         SDG:         DATE/TIME         PAGE           Enviro-4g finginalisming         PROJECT:         1562868         0/12/23 INC2         5 of 43	Wet Chemistry by Method 351.2         Obasiner Roll         Olivition Analysis         Basch Analysis           Analysis         mp/l dief / Imp         dief / Imp         dief / Imp           Kedini Nitrogen, TRN         15.4         0.250         1         12/5/2022 11:45         w/5/2/202           Wet Chemistry by Method 4500CI G-2011         4500CI G-2011         10.000 CI G-2011         10.000 CI G-2011	Analyse         Result         Qualifier         RDL         Dilution         Analysis         Stets           Oild Genove (Horonne Extr.)         11.2         5.00         1         12/5/202211:00         WES202211:00         WES202211:00           Wet Chemistry by Method 300.0         6esult         5.00         1         12/5/202211:00         WES202211:00         WES202211:00           Analyse         megh         megh         megh         megh         megh         Megh (Limitor)         Wes202211:36         Wes202211:36           Analyse         NO         0.500         1         12/02/202211:24         Wes202211:24         Wes202211:24           Allianu         0.537         0.500         1         12/02/20221:25         Wes202211:24         Wes202211:24           Sulfutor         171         0.700         1         12/02/20221:25         Wes20221	Method Solids   Method 120.1   Method 120.2   Met	Chirch   C	IREIBER 3
ACCOUNT: PROJECT: SDG: DATETIME PAGE Enviro-Ag Enginvening LISS2885 07/12/23 1002 5 of 43		Metals (ICP) by Method 200,7         Cusifier (RDL)         Olluser Analysis         Earth           Analyte         Result         Cusifier (RDL)         Olluser Analysis         Earth           Analyte         Regil         Analyte         Analyte         Balch           Chloum         85.1         1,00         1         127270221424         W6197224           Chloum, Doscolved         59.3         1,00         1         127270221430         W61977265           Magnesum, Doscolved         39.4         1,00         1         127270221430         W61977265           Sodum         859         20.0         20         12727021581         W61977265           Sodum, Doscolved         980         20.0         20         122270221501         W61977265	Wet Chemistry by Method SM4500NH3H           Result         Onalifer mg/l         RD III wild no Analysis         Baleh           Analyse         mg/l         dute/ line         Mary line           Ammoniu Mirogein         8.022         1.00         10         12/03/2022/12/55         WG18/72/47           Wet Chemistry by Method SM5210B         Result         R01         Julifer         R01         Julifer         Male l'ima         MG18/2022/03/55         MG18/2022/03/55         Baltch           Analyte         mg/l         Julifer         R01         Julifer         Julifer         MG18/2022/03/55         WG18/2022/03/55         WG18/2022/03/55           G800         46.5         Julifer         100         1/2/07/2022/03/55         WG18/2022/03/55         WG18/2022/03/55	mpl   dale lane   250	SCHREIBER 3 SCHREIBER 3 SAMPLE RESULTS - 01 Collected delictine: 12/01/22 09:10 L155/3585 Wet Chemistry by Method 4500P-E Result Qualifier RDL Offution Analysis Sales

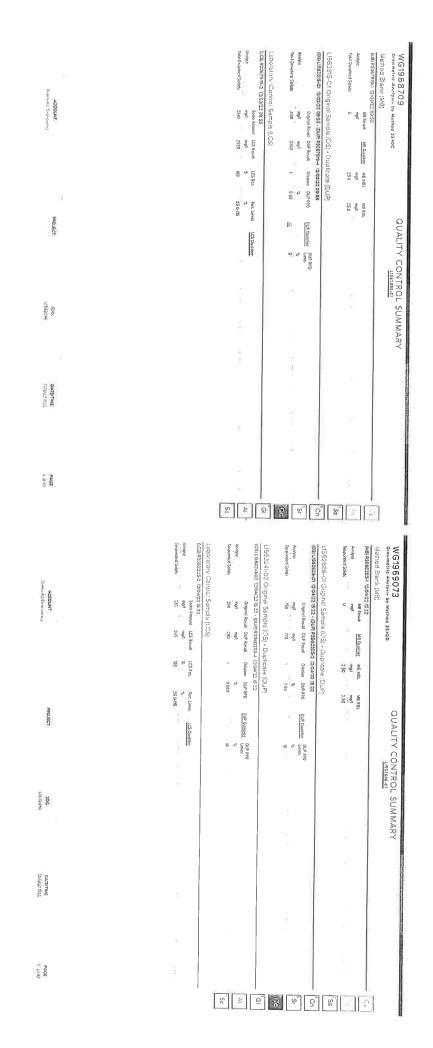
DAMNY FICE RESULT   S	CECUTION   CONTROL   CON		PAGE: 7 of 43	DATE/TIME: 0V/2/23 IV02	ĬŠ	SDG: L1562686	PROJECT:	PRO.		JNT: gineering	ACCOUNT: Enviro-Ag Engineering	
Contract Annual Country Street   Contract Country Co	CAMPLES 3   SAMPLE RESULTS - OZ   COMPANIENT STATE   COZ   COMPANIENT STATE   COZ		10 10 11 11	9		F. 53	-		į	Q.		
Column   C	County   C											
Security State   Security   Security State   Security S	Court Applied State											
Color of Action   Color of C	Company by Method 2450CF   10000   1 0000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   100000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   10000021   100000021   10000021   10000021   10000021   10000021   10000021   100000021   100000021   100000021   100000021   100000021   100000021   100000021   100000021   100000021   100000021   100000021   100000021   100000021   100000021   100000021   100000021   1000000021   1000000021   10000000000											
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Color of Color   Col	Control   Cont											
Column   C	CAPICIDED 3   SAMPLE RESULTS - O.2				90							
Columnic Device Process   Security Day Method 3500Cr08    Se	CAPICIDE CONTROL   CAPICIDE CO	TOTAL										
Column   C	CAPICIDEER 3   CAPICIDEER STATE   CAPICIDER STATE   CAPICIDEER STATE											
Chemistry by Method 2500Cr8   Cabille No.    SAMPLE RESULTS - C2    Clared Results   Caption   Captio				WG1958Z9Z	12/03/2022 17:15		0.0250		0,173		Zinc	
Colorated Results	HREBERS 3 LINEAR STATE CONTROL TO THE PROPERTY OF THE PROPERTY				WG1968297	12/08/2022 17:15		0.0200		ND :		Thallium
Color   Colo	HREIBER 3  LIUSING  L				WG1968292	12/22/2022 17:05		70.0		845		Sodium
Commission   Com	REIBER 3   SAMPLE RESULTS - 0.2				WG1568292	12/22/2022 12:24	, _	0.0200		8 8		Silver
Columbia   Column	HREIBER 3  CLUITER RESUlTS  Fig. 1  Fi				WG1968292	12/08/2022 17:15		0.0100		0,0146		Nickel
Chemistry by Method 3500C+8   Radio   Colored Results   Radio   Chemistry by Method 3500C+8   Radio    HREIBER 3				WG1969292	12/08/2022 17:15		0.0500		ND	sis.	Mingan	
Cutto et al continue   Libert 20   Liber	HREBER 3				WG1968292	12/08/2022 17:55	_	1.00		39.7	m	Magnesii
Commission   Com	HREBER 3  LICETED RESULTS  LICETED RESUL				WG1968252	12/08/2022 17:15	<u></u> .	0.0100		ND		Lead
	REIBER 3   SAMPLE RESULTS - 0.22				WG1968292	12/08/2022 17:15		0.0200		8 8		Capper
Additional (1997)   Continue	REIBER 3   SAMPLE RESULTS - 02   11952865   SAMPLE RESULTS - 02   11952865   SAMPLE RESULTS - 02   SAMPLE RE				WG1958292	12/03/2022 17:15		1.00		VD 4		Chronica
Annie   Color   Colo	REIBER 3   SAMPLE RESULTS - 02				WG1958292	12/06/2022 17:15	_	0 00500		N S		Cidmin
Activation   Control   C	REIBER 3   SAMPLE RESULTS - 02				WG1968292	12/02/2022 17:15		0.100		ND		Boron
CEP  by Method 200.7   Collider   RDL   Collider   Analysis   SAMP FOR RESULTS   SAMP F	REIBER 3   SAMPLE RESULTS - O.2				WG1958292	12/08/2022 17:15	_	0.00100		ND		Berylina
Commistry by Method 25.11   Coulder RD.   Dilutin Analysis   Babb.   Each   E	REIBER 3   SAMPLE RESULTS - C2   11582585   SAMPLE RESULTS - C2   11582585   SAMPLE RESULTS - C2   11582585   SAMPLE RESULTS - C2   Sate statistic region of the following property of the following p				WG1968292	12/08/2022 17:15	<b>→</b> .	0.0100		0.0847		Выпит
	REIBER 3				WG1968292	12/08/2022 17:15		0.0200		X Z		Amenic
Commistry by Method 3500Cr-B   Commistry by Method 4500Cr-B   Commistry by Method 4500Cr-B   Commistry by Method 4500Cr-B   Commistry by Method 450Cr-B   Commistry b	REIBER 3				WG1958292	12/08/2022 17:15		0.500		4,03		Antimon
Commistry by Method 3500Cr-8   Couling RPL   Dilution Analysis   Batch   Fig.   Dilu	RE  BER 3	Feed 300 700 t 500				date / bme		ng/l	0 0	mg/l		Aluminu
CEP   Dy Method 250.0.7   Dialife: PBL   Dialife: Maryis   Batch   Dialife: Maryis   Dialife: Maryis   Batch   Dialife: Maryis   Dia	REIBER 3   SAMPLE RESULTS - 0.22	Organal Recuit DUP Recuit Delution DUP RPD DUP Qualifier			Balch	Analysis	Dilution		Qualifier	Result		Analyta
Columnity by Method 3500Cr-B    REIBER 3   SAMPLE RESULTS - 02   SAMPLE RE									thod 200.7	Is (ICP) by Me	Meta	
Columnic 12 Journal of Columnic 12 Journal	REIBER 3	L1562585-01 Original Sample (OS) - Duplicate (DUP)							ì			
Columnition	REIBER 3   SAMPLE RESULTS - 02				WG1970134	12/07/2022 14:16	<b>-</b>	0.000200	E	ě,		Mercun
Columbition	REBBER 3   SAMPLE RESULTS - 02	ctu/100 ml ctu/100 ml etu/100 ms	Sc		Batch	Analysis	Dilution		Qualifier	mg/l		Analyte
California   Damine   Roll   Olidion Analysis   Salch   California   Result   Outside   Roll   Olidion Analysis   Salch   California   Roll   Olidion   Roll   California   Roll   Olidion   Roll   California   Roll	REBBER 3   SAMPLE RESULTS - 02	MB Result MB Quidder WE WELL	9				2	Н	Outline	Pacielt		Ĭ
Chemistry by Method 3500Cr-B   Chemistry by Method 4500Cr-B    REIBER 3	NB) R306669-2 12/07/23 14:53	P							d 245,1	ury by Metho	Merc	
Commistry by Method 3500Cr-8   Collidian Analysis State   Collidian Analy	REBBER 3   SAMPLE RESULTS - 02	*A:17:11 00:15:5:5:40)	•		WG1970463	12/07/2022 15:13	77	0,0100		8		cyanio
Chemistry by Method 3500Cr-8   Result   Qualifier   RDL   Dilution   Analysis   Batch   Result   Res	REIBER 3		Q		T.	distr / time		ng.		mg/l		Mody
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C	ER 3  Iline: 12/01/122 09:10  LISSANS  SAMPLE RESULTS - 02  LISSANS  Result  Result  Result  ND  Diubline Analysis  Result  ND  Diubline Analysis  Result  ND  Result							a conection	o minior minime	comprehensive median		
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SAMPLE RESULTS   SAMPLE RESULTS - U.Z	REIBER 3  **RESULTS - 02  **Instance   12/01/22 09:10  **SAMPLE RESULTS - 02  **Instance   12/01/22 09:10  **Result   0   0   0   0   0   0   0   0   0			į.		date / time	1,000	100				Chrom
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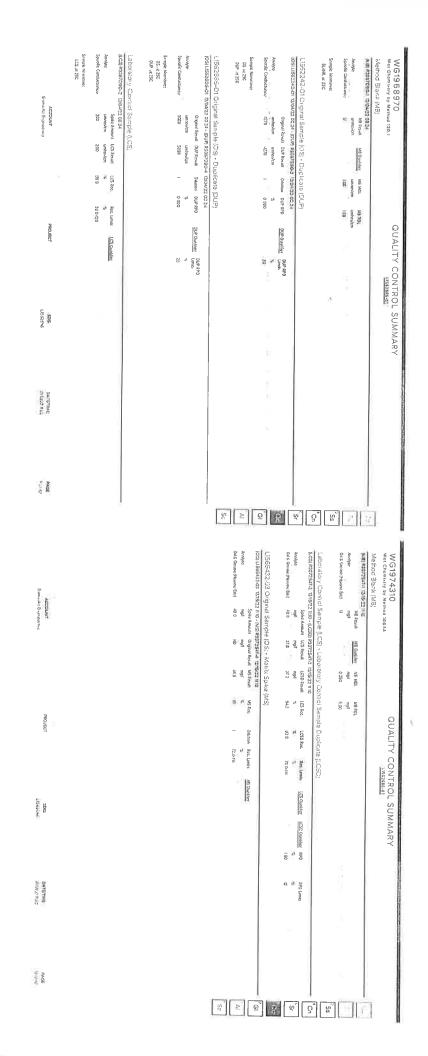
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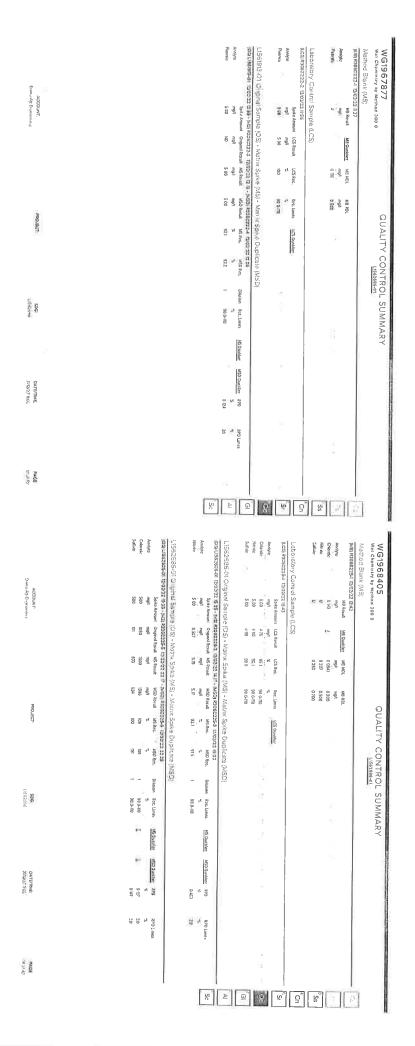
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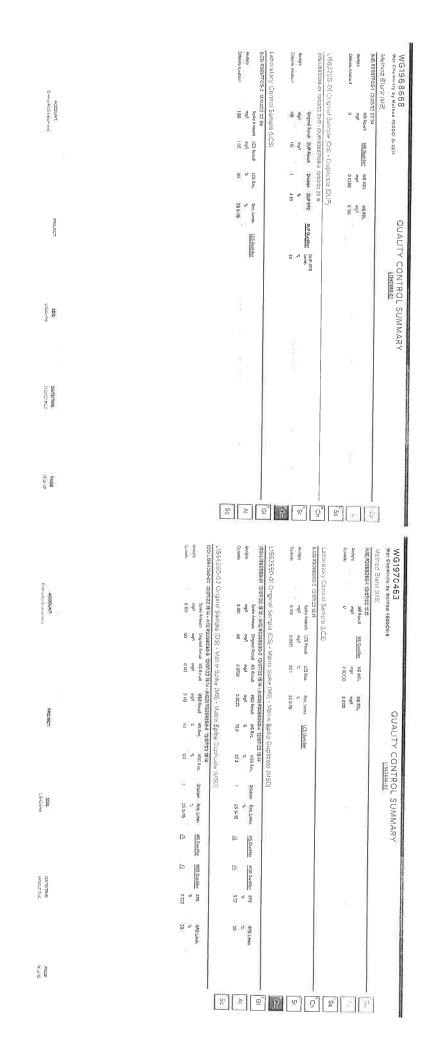
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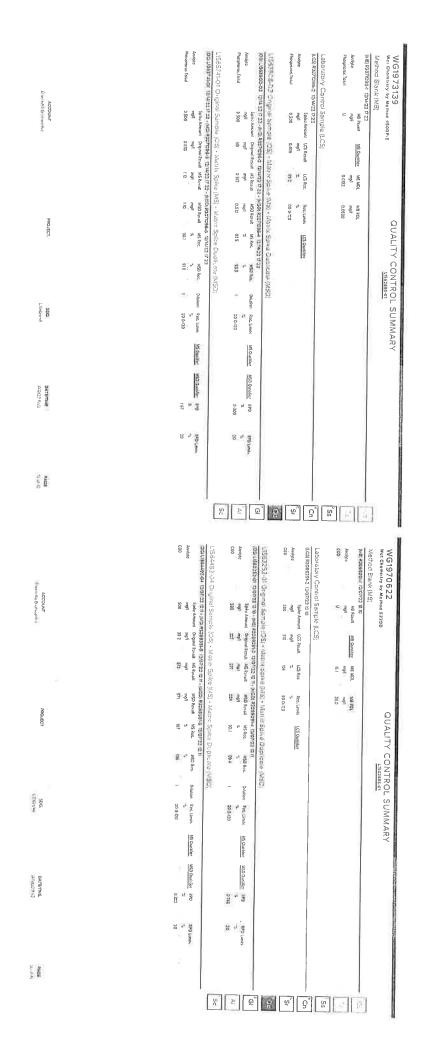


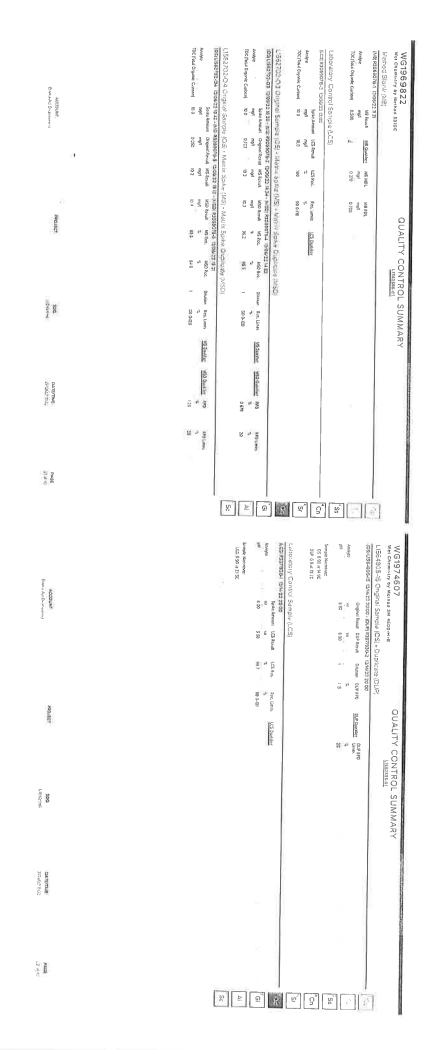


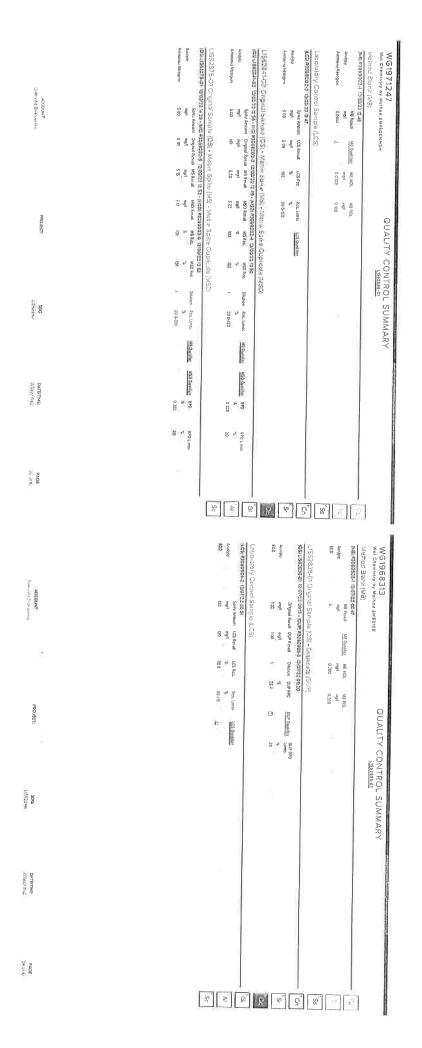


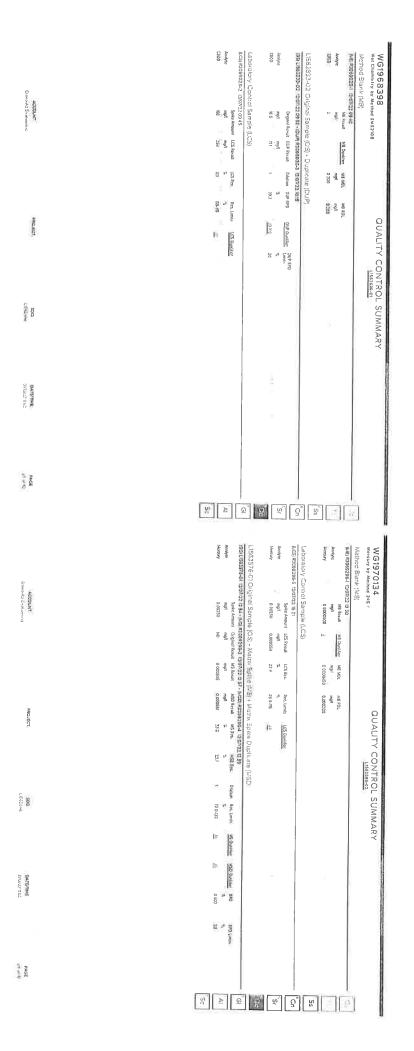
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Sample Chain of Custody (Sc) Quality Control
Summary (Qc)

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Case Namalive (Cn)

Sample Summary (Ss) Sample Results (Sr)

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation analysis. This section of your report will provide the results of all raping performed on your samples. These results are provided by sample it are at we sponded by the yearly sea sectioned an early's sample. The heads little of each analysis section for each sample will provide the name and method number; on the nearly sample.

# GLOSSARY OF TERMS

# Guide to Reading and Understanding Your Laboratory Report

The information below is designed to botter explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explaination, and if you have additional questions please contact your project representative.

Results Dedermer, information that may be provided by the customer, and combined within this waper, include Permit Limits, Project Name, administry of Sample, but this company of the Chaptering Collection Dates/Times, and Sample of Learnier, Results, Sample in the Chaptering Collection Dates/Times, and Sample of Learnier, Results, either in the Acquirecy of this information provided and in the American Previous.

MDC	Method Detection Limit,
N	Not detected at the Reporting Limit (or MDL where applicable)
RDL	Reported Detection Limit
Rec.	Recovery
RPD	Relative Percent Ofference
SDG	Sample Delivery Group,
C	Not defected at the Reporting Limit (or MDL where applicable)
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analyses reported.
Dilution	If the symple matric contains an interfacing material, the symple preparation volume or weight values effort from the sample preparation of concentration set analysis in the sample are higher than the highest limit of concentration that the librariatory are not converted to the sample may be district for analysis. If a value of the rout than 1 is used in this facility result reported in a shearty benefit out ordered to the facility.
Limits	These set the target "Kredevinty ranges or "A ofference value that the laboratory has historically determined as normal for the methods and analysis being reported. Successful GC Sample analysis will larget all analyses recovered or duplicated within misses ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Diffuence (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifler	This dolumn provides a letty-shador number designation that corresponds to additional information concerning the result reparted if a Qualifier is present, a definition and Qualifier is provided which the disposity and Optimitions page and potentially in discussions of possible implications of the Qualifier in the Case Annahour in applicable.
Result	The detail analytical final routh (connected for any sample specific characteristics) reported for your sample. If these was no measurable result returned for a Section analytic the result in this column may state. "AD" (Not Detected) or "SDL". Below Detected in the section analytic final section in the state of the section and of "AD". Below Detected threat, that indomination in the section should disrupt as excompaning to yether an ADD. Whethor O section Limit of "AD. (Reporting Detection Limit and details the lowest value that the aboutpary could detect.)
Uncertainty (Radiochemistry)	Confidence level of 2 sigma

Qualifier	Description
	The native concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration ( $CAL_{\lambda}$ ).
	The identification of the analyte is acceptable; the reported value is an estimate.
ω	The associated batch QC was outside the established quality control range for precision
4	The associated batch $QC$ was outside the established quality control range for accuracy
ı	The sample matrix interfered with the ability to make any accurate determination; spike value is high
56	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
	The associated batch QC was outside the lower control limits, associated data has a potential negative bias
*	The associated batch QC was outside the upper control limits; associated data has a potential positive bias.
K9	Test replicates show more than 30% difference between high and low values.
PI	RPD value not applicable for sample concentrations less than 5 times the reporting limit
TB	Sample(s) received past/too close to holding time expiration.
	The sample concentration is too high to evaluate accurate spike recoveries

ACCOUNT. Envira-Ag Engineering

PROJECT:

SDG LI562686

DATE/TIME: 0V/2/23 It:02

PAGE:

# ACCREDITATIONS & LOCATIONS

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Alaska	7-026		Nebraska	₩-05-15-05
Arizona	170ED		Nevada	TN00003Z0Z1-1
Advance	AZUBIZ		New Hampshire	2975
Airchia	CC-0469		New Jersey-NELAP	TN002
Calicino	2922		New Mexico 1	TNOCODS
Captago	TN00003		New York	17742
CONTREBER	PH-0197		North Carolina	Env375
Floiting	E07407		North Carolina 1	DWZ1704
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in as	200000		Oklahoma	9915
	C-/N-OT		Oregon	TNZ00002
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Conquired by Dignorant	Alliza Handronden / Belic 12	202	_ UPS _ Fects _	Otron Total	B- Boassay								XX12,00 2			Sample ID Comp/Grab In	Realt? (Lab	Zane Totter	France 254-965-3500	Project Description: Co.	Jourdan Mullin	JAON AGENTY BRYLL Armanibo, 100 78118	Enviro-Ag Engineering	1
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\*Drinking Water \* Underground Stronge Tanks \* Aquats Touking \* Chemical/Microbiological \* Mustiventer in Azertefanon not applicable \* Not all certifications not by the bookshop are applicable to the create reported in the altached report.

\*Accreditional is only applicable to the test methods specified in each scape of accreditions is only applicable to the test methods specified in each scape of accredition of by Pace Asalysical.

Page Analytical Services, LLC -Dallas 2557 Gravel Dr. Pt. Worth, TX 75118

ACCOUNT: Enviro-Ag Engincenng

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/_IFace Analytical	Sample Receiving Non-Conforma	ınc	e Form (NCF)
Date: [1/]/tt [6	xilly HOY I've potenties.	Wo	rkorder/Login Labol Here or List Pace der Number or MTJL Log-in Number Here
i. If Chain-of-Custody (COC) lab personnal. Nota issues on t	is not received: contact client and if necessa his NCF	ry, f	ll out a COC and indicate that it was filled out by
	k applicable issues below and add details	ulsa	re nancondule:
Collection date/inne missing or incorrect	Analyses or imarytes iniserig or clarification needed	V	Samples listed on COC do not malon samples (eceived (missing, additional, etc.)
Sample Ma on COC do not match ±ample laters	Required top plants were not received	L	Requires agriculties are missing to hold all antions correctly the control of hour after
extensively broughest		++	
3. Sample intogrity leaves: ch	ock applicable Issues below and add deta	ls v	whore appropriate:
Samples: Past holding time	Samples. Concision needs to be brought to lab personnel's attantion (delate below)	L	Preservation Improper Temporature not within acceptance criteria (typica
	Containors: Broken or compromised		0-80) temperature not within acceptance chiena (typical
Samplus Nut field finered	Contain or a tireken or comprehensed	₩	75 T T T T T T T T T T T T T T T T T T T
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Pace Analytical	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20
	Pocument No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

19 22	th CCorpus Christi DAustin
Client Name: Franco As Cqurler Fedex or ursin USPS of Client at 150 or PACE of Other Tracking in	ect Work order (place label):
Custody Seal on Cooler/Bax: Yes D. Ro or Received on Re: West: William () No Kes: Received on Ro! Thermometer Used: PURISH () Cooler Tor Roceiving Lab 2 Thormometer Used: 18(1) Cooler Tor	mp °C: 1.3 (Recorded) 02 (Correction Factor) 1.1 (Actual mp °C: 9.5 (Recorded) 46.5 (Correction Factor) 5.9 (Actual
Temperature should be above freezing to 6°C unless collected	same day as receipt in which evidence of couling is accompli-
Triago Persun: Al- Dato: 12/1/1	l-
Chain of Custody relinquished	Yes No p
Spmpler name & signature on COC	Yes or No o
Short HT analyses (<72 hrs)	Yes C/No G
Sufficient Volume received Carrect Container used	Yes of No u
	1.50
Container Intact	Yes of No C
Sample pH Acceptable	LUNG-SELECTION CONTRACTOR CONTRAC
pH Strips: 411005 esidual Cularina Present CI Strips: 1460	Yes 0 No 0 -NA 6 06 12/2
Lead Acetate Strips: <u>U\$62</u>	Yes 0 No 0 - HATIF 06 (2/2
re soil samples (volatiles, TPH) received in 5035A Kiis not applicable to TCLP VOA or PSF Program TPH)	Yes n No o NA V
Inproserved 5035A soil frozen within 48 hrs	Yes o No o NA &
loadspace in VOA (>6mm)	Yes to No ci NA d
roject sampled in USDA flegulated Area outside of exas State Sampled:	Yes u No o MA u
on-Conformance(s):	Yes o No a
beling Person (if different than log-in):	Date:

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Pace Analytical*	Sample Conditi	ent Name: ion Upon Receipt	Document Revised: 7/77/20 Page 1 of 1
	F-DAL-C-0	nent Ito.: 101-rev. 14	Issuing Authority:
	Sample Cond	ition Upon Re	sceint
□Dall		h ()Corpus Cl	
Client Name: FANCO - A Courier, FedTX til UPS is USPS is Client is U Tracklag in	Proje	et Work order (pt	ace label):
Custody Soal on Cooler/Box: Yes to No G			1 101-186
Received on Icas Was and Olive at the A			L1562686
Receiving Lab 1 Thermometer Used: FWIMI	Cunter Ton		
Receiving Lab 2 Thermometer Used:	Couler Ten	10 °C: (Re	corded) 0.2 (Correction Factor) 1.1 (A
Farmer 1 141	-13-15	· · · · · · · · · · · · · · · · · · ·	(Correction Factor) (A
Compenium should be above fixed		1 -n. d	jeh evidence of cooling is neceptable
Triago Person: AH Sen	d Chlore a	-6 THN	or enough is necelitable
Cliain of Custody relinquished	to Natio	٨	***************************************
Sampler name & signature on C	1 - 1 - 1		
Short HT analyses (<72 hrs)	A		
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			7
Sufficient Volume received			
Sufficient Volume received			
Sufficient Volume received Correct Container used Container Intact		Yes o No o	
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Sufficient Volume received  Correct Container used  Container Intact  Sample pH Acceptable pH Strins:		Yes o No o	
Sufficient Volume received  Correct Container used  Container Infact  Sample pH Acceptable pH Strips:  Rossitual Chlorine Present Cl Strips:			
Sufficient Volume received  Correct Container used  Container Intact  Sample pH Acceptable pH Strips: pH Strips: Cl Strips: Cl Strips: Sulfide Present		Yes in No in	NA D
Hosidual Chloring Present Cl Strips: Sulfide Present Lead Acetate Strips:	_	Yes o No o	NA D
Sufficient Volume received  Correct Container used  Container Intact  Sample pH Acceptable pH Strips: Desidual Chlorine Present CI Strips: Sulfide Present Lead Acetate Strips: Are soil samples postation. Tend container.	At rone of	Yes a No a Yes a No a Yes a No a	NA D
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Sufficient Volume received  Correct Container used  Container Intact  Sample ph Acceptable ph Strips: Lesidual Chlorine Present CI Strips: julfide Present Lead Acetate Strips: Are soil samples (volatiles, TPH) receive not applicable to TCLP VOA or PSI Progri	ed in 5035A Kits an TPHJ	Yes a No a	NA U NA U
Sufficient Volume received  Correct Container used  Container Intact  Sample pH Acceptable pH Strips: Dosidual Chlorine Present CI Strips: Sulfide Present Lead Acetate Strips: Lead Acetate Strips: Are soil samples (volatiles, TPH) receive mot applicable to TCLP VOA or PST Progre Jupteserved 5035A soil frozen within a teadspace in VOA (56mm)	ed in 5035A Kits wit TPHJ 8 hrs	Yes a No a	NA D NA D NA D
Sufficient Volume received  Correct Container used  Container Intact  Sample ph Acceptable     pH Strips:     Residual Chlorine Present     Cl Strips:     ulfide Present     Lead Acetate Strips:     Are soil samples (volatiles, TPH) receive     not applicable to TCLP VOA or PST Progri     Impreserved S035A soil frozen within a     lead space in VOA (>6mm)     reject sampled in USDA Regulated Are     seas	ed in 5035A Kits wit TPHJ 8 hrs	Yes a No a	NA D NA D NA D
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Page Annivities		F-DAL-C-011 rev; 00 3/16/
Pace Analytical		
Date: 12/1/42	Sample Receiving Non-Confo	rmance Form (NCF)
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2. If COC is incomplate also	IND NOP	
Collection date/time missing of	k applicable issues bulow and add dota Analyses or analyses missing or	ila where appropriate:
Samp's IDs on COC de not	Cantication needed	Samples listed on COC do not match samples (uccoved (missing, additional, cite)
Commental Details (Other Issue	I Required trup blanks were not recoved	Required signatures are missing
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Sample integrity Issues: ch	ock applicable issues below and add de	stalls where appropriate
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Samples: Wat field folered Samples: besufficient volume recoverd	Containers: Broken or comprehised	Temperature: not within acceptance colona (lypica 0-6C)
Samples: Cooler damaged or	Continues lexterest	Temperatura Samples arrived horan
Samples contain chloring or	Custody Seals, Maxing or coopermised of enables, hijo Idan's or coolers	Vials received with improper headspace
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# Pace Analytical ANALYTICAL REPORT

# Enviro-Ag Engineering

12/06/2022 L1564107 Sample Delivery Group: Samples Received:

Project Number.

Description:

Report To:

3404 Airway Blvd.

Jourdan Mullin

Amarillo, TX 79118

Entire Report Reviewed By: (Myanda Fost

Cassandra Foster Project Manager

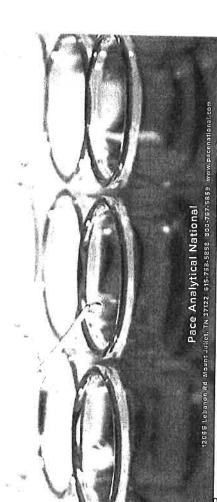


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Tc: Table of Contents Cp: Cover Page

Ss: Sample Summary

Cn: Case Narrative

Sr. Sample Results

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SCHREIBER 4 L1564107-01

SCHREIBER 4 L1564107-02

Oc: Quality Control Summary

Microbiology by Method 9222D

S. S. S.

Gravimetric Analysis by Method 2540C Gravimetric Analysis by Method 2540D

Wet Chemistry by Method 1664A Wet Chemistry by Method 120,1

7

Wet Chemistry by Method 3500Cr-B Wet Chemistry by Method 300 0 Wet Chemistry by Method 351,2

Wet Chemistry by Method 4500CI G-2011

Wet Chemistry by Method 4500CN-E Wet Chemistry by Method 4500P-E Wet Chemistry by Method 5220D

Wet Chemistry by Method SM4500NH3H Wet Chemistry by Method SM 4500-H+B Wet Chemistry by Method 5310C

Metals (ICP) by Method 200,7 Mercury by Method 245.1

Wet Chemistry by Method SM5210B

GI: Glossary of Terms

Al: Accreditations & Locations Sc: Sample Chain of Custody

ACCOUNT:

PAGE:

DATE/TIME: OV/9/23 t0:28

SDG:

PROJECT

SDG: L1564107

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00314

### SAMPLE SUMMARY

Cost-child by

Collected date/time Received date/time

SCHREIBER 4 L1564107-01 WW			LUTION THINKS	12/06/22 08:54	12/06/22 10:23	123
Melhod	Batch	Difelion	Preparation	Analysis	Analyst	Location
\$			dale/time	date/lime		
Microbiology by Michhod 9222D	WG1970787	ST.	12/06/22 14:58	12/07/22 15:02	CNC	FL Worth, TX
Calculated Results	WG1971247	æ	12/16/22 17:09	12/16/22 17:09	LDT	Allen, TX
Colculated Results	WG1974488	27	12/22/22 15:11	12/22/22 13:11	TJ6	Allen, TX
Gravimetric Analysis by Method 2540C	WG1970676	**	12/07/22 13:34	12/07/22 14:07	QQT	Allen, TX
Gravimetric Analysis by Method 2540D	WG1972273	-	12/10/22 05:38	12/10/22 07:32	100	Allen, TX
Wet Chemistry by Method 120.1	WG1970709	-	12/07/22 14:19	12/07/22 14:15	700	Allen, TX
Wel Chemistry by Method 1664A	WG1976033		12/17/22 09:34	12/19/22 12:00	컺	Allen, TX
Wet Chemistry by Method 300,0	WG1970015		12/07/22 16:42	12/07/22 16:42	EIG	Allen, FX
Wel Chemistry by Method 300 ©	WG1970015	25	12/07/22 17:00	12/07/22 17:00	e e	Allen, TX
Wet Chemistry by Method 300 C	WG1970015	7	12/08/22 09:17	12/08/22 09:17	BG	Allen, TX
Well Chemistry by Method 351,2	WG1974348	-	12/16/22 10:32	12/16/22 17:09	LDT	Mt Juliet, TN
Wet Chemistry by Method 4500Cl G-2011	WG197/914	7	12/09/22 15:17	12/09/22 15:17	RG	Mt, Juket, TN
Wet Chemistry by Method 4500P-E	WG1973142	ឥ	12/14/22 17:17	12/14/22 17:17	XCM	Allen, TX
Wet Chemistry by Method 5220D	WG1975652	3	12/16/22 17:39	12/16/22 15:24	SMC	Allen, TX
Wet Chemistry by Method 5310C	WG1972936	(iii	12/14/22 16:13	12/14/22 15:13	EIG	Allen, TX
Wel Chemistry by Method SM 4500-H+B	WG1975962	ä	12/16/22 19:18	12/16/22 19:18	TJG	Allen, TX
Wet Chemistry by Method SM4500NH3H	WG1971247	U+	12/08/22 14:12	12/08/22 14:12	BIG	Allen, TX
Wel Chemistry by Method SM52108	WG1970702	=1	12/07/22 15:51	12/12/22 10:14	TJG	Allen, TX
Wet Chemistry by Method SM52106	WG1970708		12/07/22 17:29	12/12/22 11:51	DU	Allen, TX
Metals (ICP) by Method 200 7	WG1974488	-	12/19/22 12:54	12/19/22 14:58	EJS	Allen, TX
Metals (ICP) by Method 200.7	WG1974483	350	12/19/22 12:54	12/22/22 13:11	JG	Allen, TX
Metals (ICP) by Method 200,7	WG1977205		12/20/22 11:19	12/21/22 14:14	EUS	Allen, TX
Meta's (ICP) by Method 200,7	WG1977205	В	(2/20/22 11:19	12/27/22 18:02	ES	Allen, TX
			Collected by	Collected date/lime Received date/lime	Received dat	ozime
SCHREIBER 4 L1564107-02 WW			Zing Trotter	12/05/22 0B;54	12/06/22 10/23	ü
Method	Batch	Diluton	Preparation	Analysis	Analysi	Location
			date/time	date/time		
	WG1974483	-	12/19/22 15:04	12/19/22 15:04	II.	Allen, TX
Wel Chamistry by Method 3500Cr-9	WG1974881	64	12/15/72 11:00	12/15/22 11:00	XCM	Allen, TX
Wirt Chemistry by Method 4500CN-E	WG197111S	-	12/03/22 09:45	12/08/22 15:19	KOM	Allen, TX
Mercury by Method 245,1	WG1974201	-	12/14/22 10:45	12/14/22 14:27	CEX	Allen TX
Metals (ICP) by Method 2007	WG1974458	-1	12/19/22 12:54	12/19/22 15:04	ę,	Allen, TX
Webls (ICP) by Method 20017	WG1974483	-	12/19/22 12:54	12/20/22 13:33	EVS.	Allen, TX
wedls (i.e.) by Method 2007	WG1974483	77	12/19/22 12:54	12/22/22 13:27	TJG	Allen, TX
metals (ich) by Method 2001/	WG1984828	-	01/07/22 11:25	01/05/23 12:03	513	Allen, TX

#### CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Whater applicable, all MOL (DO) and PDL (LCO) values reported for environmental samples have been corrected for the diution factor used in the analysis. All Matthod and Statch Quality Control are within established criterial except where addressed in this case harrative, a non-conformance form or properly qualified within the sample results, by my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the isopratory as having the potential to affect the quality of the data have been identified by the isopratory, and no information of data have been knowlingly withheld that would affect the quality of the data.

Cassandra Foster Project Manager





















PROJECT:

SDG: L1564107

DATE/TIME: 01/19/23 10:29

PAGE:

Enviro-Ag Engineering

ACCOUNT:

PROJECT:

50G L1564107

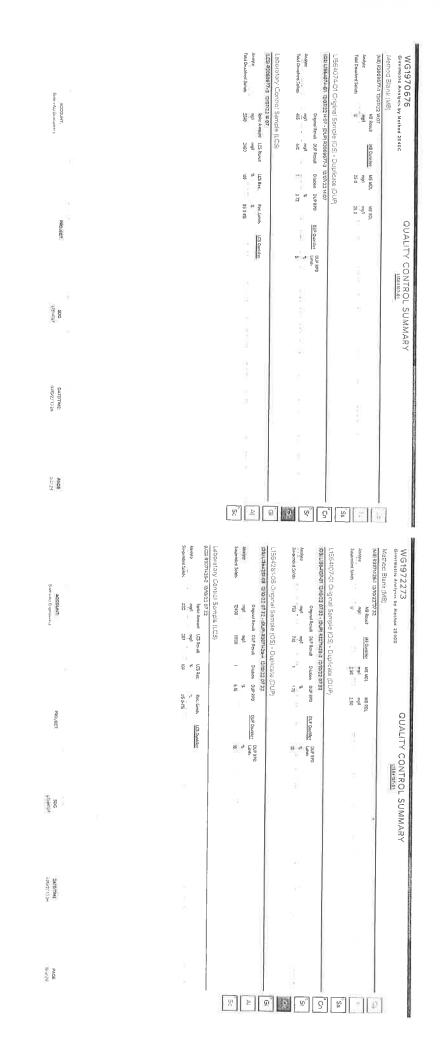
DATE/TIME: 07/19/23 10:28

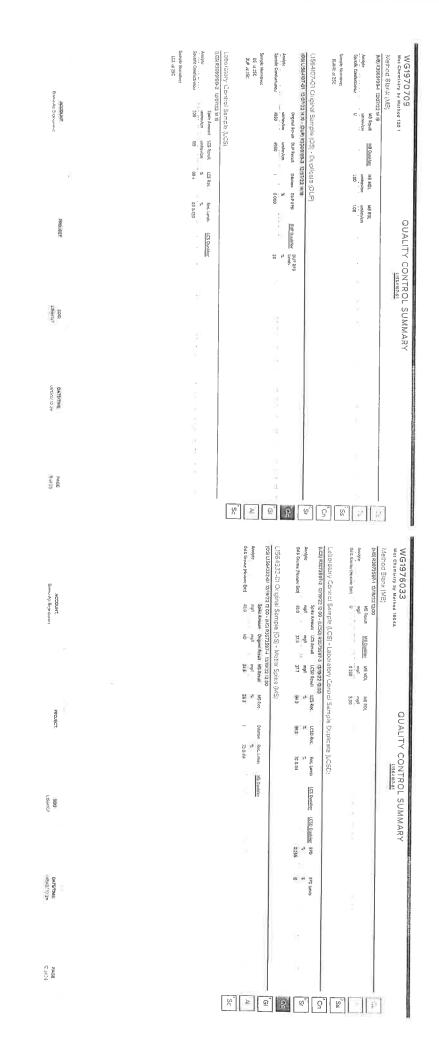
Analyte         Result         Qualifier         RDL         Dilution         Analysis         Butth           Kjelsini Mirogon, TKN         12.9         J.3.15.15         0.250         1         12/16/2022/17.99         WGISH923B           Wet Chemistry by Method 45COCI G-2011           Result         Qualifier         RDL         Dilution Analysis         Butth           Analyte         mg/l         mg/l         mg/l         dalar/inne         Butth           Chongs, rejidual         0.823         18         0.00         1         12/05/2022/15/17         WGISTS14           Account:         Account:         PROJECT:         \$50c.         DATE/TIME         PAGE           EnviroAg Engineering         PAGE         LUS-HIO7         07/8/13 10:23         \$6/35	Met Chemistry by Method 300.0   Solo 1   12/9720212/500   Meg9786232		L1564107	SCHREIBER 4 SAMPLE RESULTS - 01
ACCOUNT: PROJECT. SDS: OATETIME PAGE. Enviro-Ag Enginering PAGE. LISS407 0/19/23 10:218 6 d 35	Analyte         Result         Qualifier         RDL         Dilupon         Analysis         SMEX           Colcium         88.0         1.00         1         1.02/96/2021 459         WGS74485           Colcium, Discolved         51.9         1.00         1         1.02/90/2021 459         WGS77465           Magnesium, Discolved         38.7         1.00         1         1.02/90/2021 459         WGS77465           Magnesium, Discolved         38.2         1.00         1         1.02/2022 14.44         WGS77465           Sodum         971         100         100         1.02/2022 12.44         WGS77465           Sodum, Discolved         102.0         V         2.00         2.0         1.02/2022 12.02         WGS77465	SM4500NH3H   Dilution Analysis   Property   7/06/15/20 01:54  / Method 4500P-E / Method 5200D  Result  Result  Method 5210C  Result  Method 5310C   SCHREIBER 4 SAMPLE RESULTS - 01		

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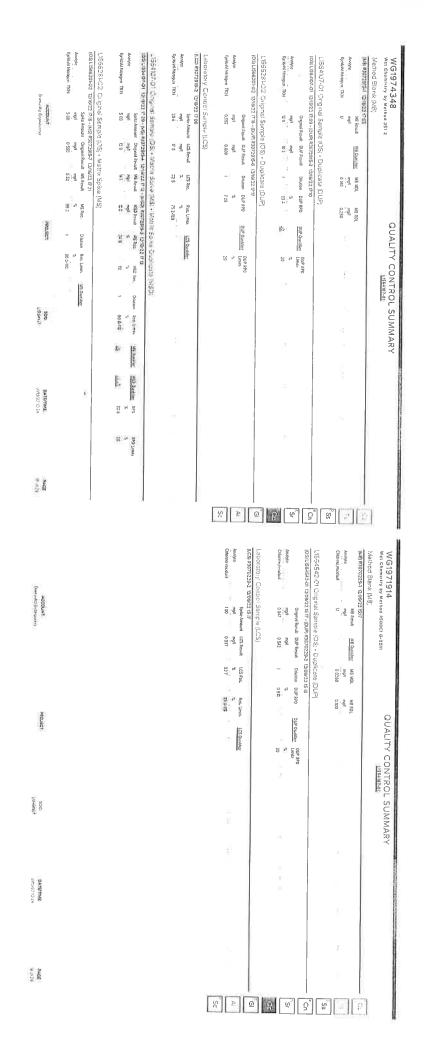
PAGE: 6 of 36

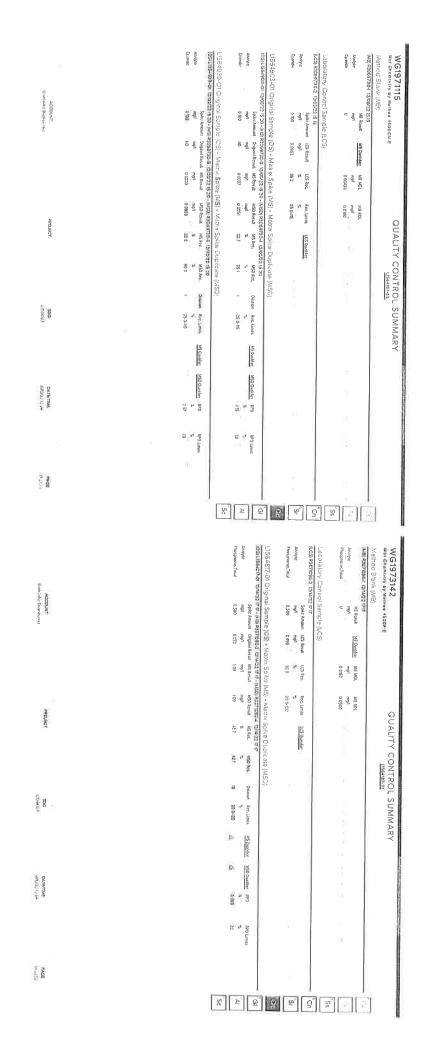
ACCOUNT: Envro-4g Engmenning	12/06/22 00:54         SA           Collection Results         Calculated Results         Qualifier MD         Result         Qualifier MD         RD           Analyte         mg/l         MB         0.00         MB         0.00           Analyte         mg/l         MB         0.00         MB         0.00           Sample Narrastive:         L156407-02 W61974681 Sample not field fillered wibth 15min of collection         MB         0.00         MB         0.00         MB         0.00         MB         MB         0.00         MB         MB         0.00         MB         MB         0.00         MB         0.00         MB         MB         0.00         0.00         MB         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00
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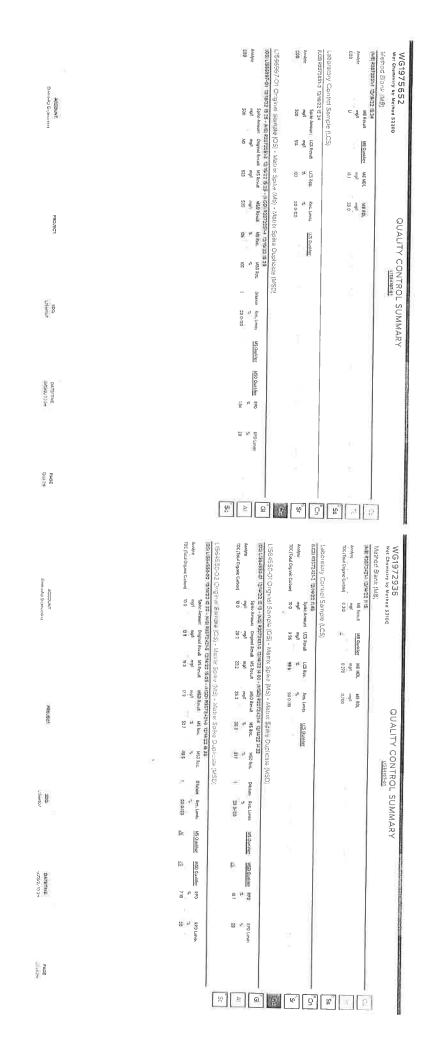


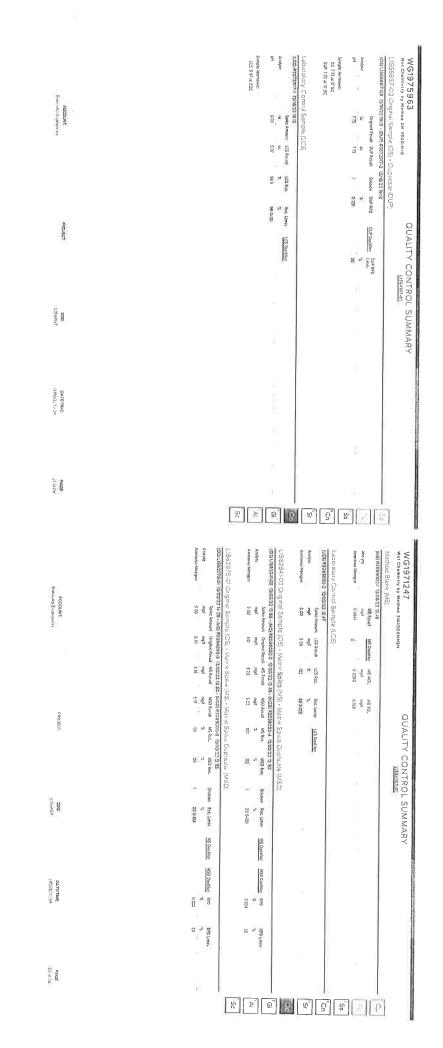


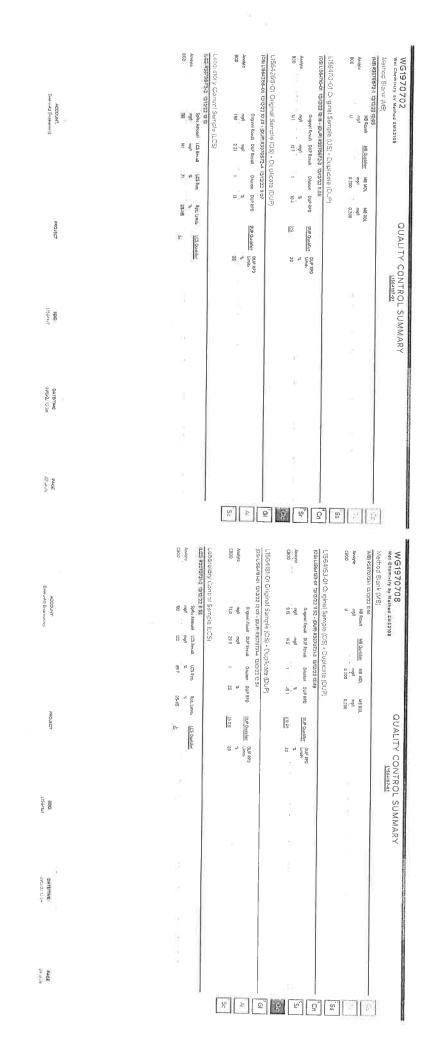
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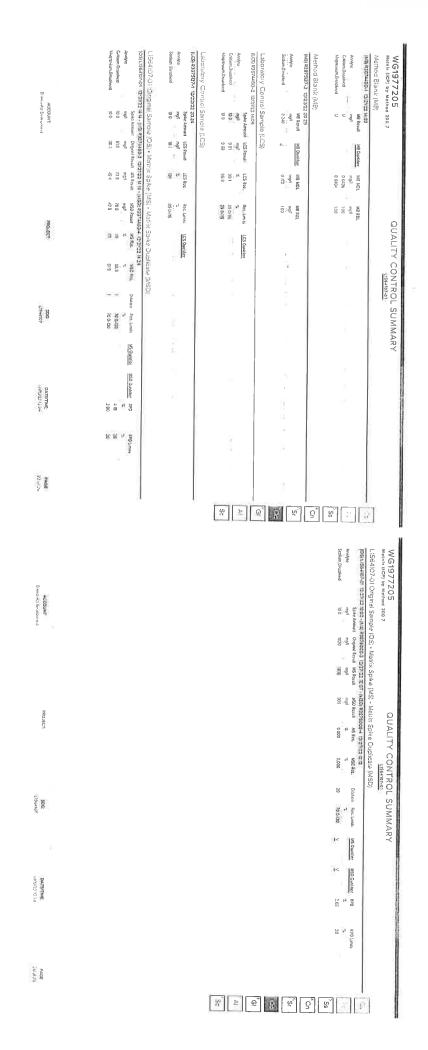






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# GLOSSARY OF TERMS

# Guide to Reading and Understanding Your Laboratory Report

The information below is designed to bester explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a combrehensive explanation, and if you have additional questions please contact your project representative.

Results Detainers - Information that may be provided by the personal made on things within the export include Permit Limits. Project Name, Sample Of Sample Applicates, Or-Salp Date, Sample Sample Of Sample Applicates, Sample Of Sample Sample Of Sample Applicates, Applicates, Applicates, Or-Salp Date, Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Sample Of Samp

# Abbreviations and Definitions

MDL	Method Detection Limit
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
ନ୍ଦ୍ର ମୁ ମ	Recovery.
RPO	Relative Percent Difference
SDG	Sample Delivery Group
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SS

Dilution If the sample matrix conceins an attendating material, the sample preparation volume of weight values differ from the standard, or if conceinstations of analysis in the sample, any higher than the highest limit of concentration that the laboratory can rectually velocity the sample may be discreted in analysis; if a value offerent than it is used in this field, the result exported has already been contected for this holds: The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytus reported. detected at the Risporting Limit (or MDL where applicable).

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Limit; These are the stope to freewery longes or % difference value that the laboratory has historically determined as normal for the method and analyse being reported. Successful OC Sample analysis will larget all analytes recovered or explicates within these granges.

Original Sample This column provides in little and/or purpose of suppositor and completions and plantation from state concerning the result reported. If a Qualifies is provided in the confidence of public is appropriate within the Qualifies in the Control of the Control of September 1 approximation of possible imprications of the Qualifier in the Control Number 1 approximations of the Qualifier in the Control Number 1 approximations. The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.

Uncertainty (Radiochemistry) The Acque introlytical final result connected to any sample spice of characteristics) (aparted to your sample, if there was no massicrate results returned for a specific analyst, the establic rate column may state XXV (Act Detected or "BQL" Bellow Detectable, Levels). The information in the results column should always be excompanied by referent an ACL (Method Desector, Limit) or BQL (Responding Detection Limit) that defends the information of BQL (Responding Detection Limit) that defends the lowest value that the laboratory could desect

## Confidence level of 2 sigma.

Sample Chain of Custody (Sc) Quality Control Summary (Qc) Sample Results (Sr) Case Narrative (Cn) This sixtion of your report will provide the results of all hosting purformed on your symples. These results are provided by stamping and are sporting to be analyses portioned on sees steppie. The hadder line of each analysis section for each sample will provide the name and method humber of the analysis engaging. This is the document created in the field when your samples water initially collected. This is used to writin the time and date of collection, the power collecting the ambides and the analysis that the laboratory is represented to perform. This collection will be present extended in the collection of a recommendation of present and the present in the collection and delivity to the indominary for analysis. This section of the trapet includes the results of the laboraby quality points) innlyses required by procedure or analytical mathetis trainskit in violentap the widely of the results capabed to your samples. These analyses are not sering centermed on your samples by cally, but on inproclary gumented matted. ৰ Prof. discussion abeat the included samply results including a Sequence of any non-combinances to protocol baserved either at sample recipied year technology from the light of curring the sneyleds protocol. If present, there will be a section in the Case Natriance of discuss the michaing of any data qualifies sated in the lights.

Sample Summary (Ss) This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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w = 6 ·	16	The sample matrix interfered with the ability to make any accurate determination
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w -	Kg	Test replicates show more than 30% difference between high and low values
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Sufficient Volume received  Correct Container used  Container Intact  Simple ph Acceptable ph Strips: Lellous Residual Chilorine Present Ci Strips: 14662  Sufficie Present Lead Acotate Strips: 14662  Vice soil samples (volatiles, 17HI) received in yot applicable to TCLP VOA or PST Program Tillupreserved 5035A soil frozen within 48 for leadspace in VOA (56mm)	Yes of No D  Yes of No D  Yes of No D  Yes of No D  Yes of No D  Yes of No D  Yes of No D  Yes of No D  Yes of No D  NA	G G G G G G G G G G G G G G G G G G G
Login Person:	Yes of No D  Yes of No D  Yes of No D  Yes of No D  Yes of No D  Yes of No D  Yes of No D  Yes of No D  Yes of No D  NA	o o
Sufficient Volume received  Correct Container used  Container Intact  Simple ph Strips: Lettous  Residual Chinrine Present  CI Strips: 1466  Sufficient Volume Present  Lead Acotate Strips: 1466  Tre soil samples (volatiles, TPH) received in put applicable to TCLP VDA or PST Program T.  Inpreserved S035A voil frozen within 48 for leadspace in VOA (56mm)	Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  No to  No to  No to  Yes of No to  No to  No to  Yes of No to  No to  Yes of No to  No to  No to  Yes of No to  No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  No to  Yes of No to  No to  No to  Yes of No to  No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No to  Yes of No	o o

## ATTACHMENT 9 - ENGINEERING REPORT

## 9.1 Purpose

This report is prepared as part of the application for Schreiber Foods, Inc. for a Texas Land Application Permit (TLAP) through the Texas Commission on Environmental Quality (TCEQ). Water balance models have been developed to illustrate the function of the impoundment system and the hydraulic and nutrient demands of the planned crops.

## 9.2 Background

Schreiber Foods, Inc. is applying for a major amendment to its TCEQ Industrial Water Quality TLAP Permit No. WQ0003074000 to increase the application acres, permitted average daily flow and amend the organic and nitrogen loading rates. The effluent from the plant site will be treated/stored in four existing earthen impoundments at the site prior to land application. The entire process will generate an average of 192,000 gallons per day (GPD) of effluent for land application to sixty-one acres of improved grasses.

## 9.3 Impoundment Facility

The effluent treatment/storage and irrigation system at the facility consists of four impoundments. The Impoundments will contain the process-generated effluent from the plant area.

## 9.4 Water Balance Calculations

Figure 9.1, Water Balance Calculations, is designed to evaluate the maximum application rate (hydraulic loading rate) for the land application area, estimates the inflows and withdrawals from the direct rainfall, process-generated wastewater, evaporation, and irrigation withdrawal based on crop demand.

## 9.5 Storage Calculations

Figure 9.2, Storage Calculations, is designed to evaluate the storage capacity and surface area of the storage ponds. The ponds must have enough surface area to evaporate all the flow to the pond under low-net evaporation and corresponding annual rainfall conditions.

## Figure 9.1 WATER BALANCE CALCULATIONS

 Permittee:
 Schreiber Foods, Inc.
 TWDB Data Quadrangle:

 Permit No.:
 WQ0003074000
 509

The water balance calculations are designed to evaluate the maximum application rate (hydraulic loading rate) for the land area where irrigation is to occur. The applicant's proposed application rate must not must not exceed the maximum calculated application rate or the maximum application rate based on agronomic analysis.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9a)	(9b)	(10)	(11)
Month	Avg	Avg	Avg	Evapo-	Required	Total	Effluent	Raw	Reservoir	Effluent	Reservoir
	Rain	Runoff	Infilt	trans.	Leach	Water	Needed	Net	Net Evap.	Needed	Consumtion
			Rainfall			Needs	in	Evap.	(as inches	Based on	(as inches
							Root	from	on plot	Irrigation	on plot
							Zone	Reservoir	acres)	Efficiency	acres)
Units →	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches
January	1,60	0.13	1.47	0.99	0.00	0.99	0.00	0.93	0.09	0.00	0.09
February	2.11	0.31	1.80	1.35	0.00	1.35	0.00	0.54	0.05	0.00	0.05
March	2.81	0.66	2.16	3.33	0.17	3.50	1.34	1.27	0.13	1.57	1.70
April	2.76	0.62	2.13	4.05	0.27	4.32	2.19	2.33	0.24	2.57	2.81
May	4.15	1,50	2.65	7.20	0.64	7.84	5.19	1.09	0.11	6.10	6.22
June	3.64	1.15	2.49	8.10	0.79	8.89	6.41	3.32	0.34	7.54	7.87
July	1.94	0.24	1.69	8.37	0.94	9.31	7.62	6.00	0.61	8.96	9.57
August	2,22	0.36	1.86	5.31	0.49	5.80	3.93	5.41	0.55	4.63	5.18
September	2.81	0.65	2.15	6.03	0.55	6.58	4.42	3.03	0.31	5.20	5.51
October	3.16	0.85	2.31	4.68	0.33	5.01	2.71	1.69	0.17	3.19	
November	1.89	0.22	1.67	1.89	0.03	1.92	0.25	1.40	0.14	0,30	3.36
December	1.46	0.09	1.37	0.81	0.00	0.81	0.00	0.97	0.10	0.00	0.44
Totals	30.54	6.78	23.76	52.11	4,21	56.32	34.05	27.99	2.84	40.06	42.90

Crop is	Grasses	
CN	71.00	dimensionles.
Се	1.05	mmhos/cm
Cl	8.50	mmhos/cm
Pond area Irrigation	6.18	acres
area	61.00	acres

0.85

0.192

dimensionless

Applicant's proposed application rate = Maximum rate from agronomic analysis =

Maximum calculated application rate =

3.57

N/A

ac-in/ac/month **OR** ac-ft/ac/year ac-in/ac/month **OR** ac-ft/ac/year

ac-in/ac/month OR ac-ft/ac/year

Recommended rate for permit = 3.57

ac-in/ac/month OR ac-ft/ac/year

Limiting factor = Click this cell to choose from list.

Gross rate check (from flow, acres) = 3.53 OK

(2) Average rainfall - Data source: Texas Water Development Board (see Quadrangle above)

- (3) Average runoff =  $\{(average\ rainfall (0.2*((1000/CN) 10)))\}^2/((average\ rainfall\ + (0.8*((1000/CN) 10))))\}^2/((average\ rainfall\ + (0.8*((1000/CN) 10))))\}^2/((average\ rainfall\ + (0.8*((1000/CN) 10)))))$
- (4) Average infiltrated rainfall = (average rainfall average runoff)
- (5) Evapotranspiration Data Source: Borelli, Bulletin 6019

MGD

(6) Required leaching =

Irrigation

Efficiency, K

Design Flow

- If: evapotranspiration average infiltrated rainfall  $\leq 0$ , then 0;
- $\label{eq:continuous} If: evapotranspiration average infiltrated\ rainfall\ > 0,\ Ce\ /(Cl-Ce)*(evapotranspiration-avg\ infiltrated\ rainfall\ )$
- (7) Total water needs = evapotranspiration + required leaching
- (8) Effluent needed in root zone = total water needs average infiltrated rainfall
- (9a) Net evaporation Data source: Texas Water Development Board (see Quadrangle above)
- (9b) Raw net evaporation from reservoir surface =  $(net\ evaporation\ from\ reservoir)*((pond\ area\ )/(irrigation\ area\ ))$
- (10) Effluent needed based on irrigation efficiency = (effluent needed in root zone)/(irrigation efficiency)
- (11) Consumption from reservoir = net evaporation from reservoir surface + effluent needed based on irrigation efficiency

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### Figure 9.2 STORAGE CALCULATIONS

Permittee:

Schreiber Foods, Inc.

Permit No.:

WQ0003074000

The storage calculations are designed to evaluate the storage capacity and surface area of the applicant's storage pond (or multiple ponds). The pond must have enough surface area to evaporate all the flow to the pond under low-net evaporation and corresponding annual rainfall conditions. The pond is considered adequately sized when the additional storage required is equal to zero (or "none"). If the additional storage required is greater than zero, then:

(1) the pond's storage capacity must be increase, (2) the pond's surface area must be increased, (3) the effluent flow must be reduced, or (4) other approved measures must be taken to ensure that no accumulation occurs during low-net evaporation and corresponding annual rainfall conditions.

(12)	(13)	(14a)	(14b)	(15)	(16)	(17)	(18a)	(18b)	(19)	(20)
Month	Effluent	Average	Rain	Field	Infiltrated	Avail	Average	Low Net	Effluent	Accum
	Available	Rainfall	Worst	Runoff	Rain	Water	Net	Evap.	to Storage	Storage
	(as inches	Distrib.	Year	Worst	1 1		Evap.	from	(as inches	(as inche
	on plot	(%)		Year			Distrib.	Reservoir	on plot	on plot
	acres)						(%)	Surface	acres)	acres)
Units →	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches
January	3.53	5.23%	2.39	0.44	1.95	5.48	3.31%	0.01	3.52	11.48
February	3.53	6.91%	3.16	0.85	2.31	5.83	1.92%	0.00	3.52	15.00
March	3.53	9.21%	4.22	1.54	2.67	6.20	4.55%	0.01	2.55	17.55
April	3.53	9.02%	4.13	1.48	2.65	6.17	8.32%	0.02	1.54	19.08
May	3.53	13.59%	6.22	3.08	3.14	6.67	3.91%	0.01	-2.01	0
June	3.53	11.92%	5.45	2.47	2.99	6.51	11.86%	0.03	-3.45	0
July	3.53	6.34%	2.90	0.70	2,20	5.72	21.45%	0.05	-4.89	0
August	3.53	7.27%	3.33	0.96	2.37	5.90	19.34%	0.04	-0.55	0
September	3.53	9.19%	4.21	1.54	2.67	6.19	10.84%	0.02	-1.10	0
October	3.53	10.35%	4.74	1,92	2.82	6.34	6.04%	0.01		
November	3.53	6.20%	2.84	0.67	2.17	5.69	5.00%	0.01	0.93	0.93
December	3.53	4.78%	2.19	0.34	1.84	5.37	3.47%	0.01	3.51	4.44
Totals	42.31	100%	45.77	15.99	29.78	72.09	100%	0.23	3.52	7.96 19.08

Worst (low) net evap. =	2.27 inches	Storage required =	97.01 ac-ft
Corresponding rain =	45.77 inches	Actual storage =	70.55 ac-ft
Worst-case net year =	2007	Additional storage required =	26.46 ac-ft
	9	Storage days =	165 days

- (13) Effluent available for irrigation (assumes design flow is applied to entire acerage unless different flow values are justified).
- (14a) Average rainfall distribution Data source: Texas Water Development Board (see Quadrangle in Water Balance Calculations above)
- (14b) Rainfall worst year =  $(rainfall\ distribution\ as\ fraction\ or\ \%/100)*maximum\ annual\ rainfall$
- (15) Field runoff worst year =  $[(rainfall\ worst\ year (0.2*((1000/CN) 10)))]^2/((rainfall\ worst\ year + (0.8*((1000/CN) 10))))]$
- (16) Infiltrated rainfall = (rainfall worst year-field runoff worst year)
- (17) Available water = (effluent available for land application + infiltrated rainfall check)
- (18a) Average net evaporation distribution Data source: Texas Water Development Board (see Quadrangle in Water Balance Calculations above)
- (18b) Net low evaporation from reservoir surface =  $[(|low\ net\ evaporation|)*(net\ low\ evaporation\ avg.\ dist)]*[(pond\ area)/(irrigation\ area)]$
- (19) Storage =
- If:  $(total\ water\ needs\ -\ infiltrated\ rainfall\ )< o, (effluent\ available\ for\ land\ application\ -\ net\ low\ evaporation\ from\ reservoir\ surface\ );$
- If:  $(total\ water\ needs-infiltrated\ rainfall) \ge 0$ ,
- (effluent available for land application net low evaporation from reservoir surface) \* [(total water needs infiltrated rainfall)/(irrigation efficiency)]
- (20) Accumulated storage =
  - If: net low evaporation from reservoir surface + storage  $\le 0, 0$
  - If: net low evaporation from reservoir surface + storage > 0, enter value

## Figure 9.1 WATER BALANCE CALCULATIONS

Permittee:Schreiber Foods, IncTWDB Data Quadrangle:Permit No.:WQ0003074000509

The water balance calculations are designed to evaluate the maximum application rate (hydraulic loading rate) for the land area where irrigation is to occur. The applicant's proposed application rate must not must not exceed the maximum calculated application rate or the maximum application rate based on agronomic analysis.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9a)	(9b)	(10)	(11)
Month	Avg	Avg	Avg	Evapo-	Required	Total	Effluent	Raw	Reservoir	Effluent	Reservoir
	Rain	Runoff	Infilt	trans.	Leach	Water	Needed	Net	Net Evap.	Needed	Consumtion
			Rainfall			Needs	in	Evap.	(as inches	Based on	(as inches
							Root	from	on plot	Irrigation	on plot
							Zone	Reservoir	acres)	Efficiency	acres)
Units →	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches
January	1.59	0.12	1.46	2.74	4.06	6.80	5.34	0.93	0.09	6.28	6.37
February	1.87	0.22	1.65	3.11	4.63	7.74	6.09	0.81	0.08	7.16	7.25
March	2.75	0.62	2.13	4.97	9.03	14.00	11.87	1.40	0.14	13.97	14.11
April	2.66	0.57	2.09	5.74	11.62	17.36	15.27	2.54	0.26	17.97	18.23
May	4.10	1.46	2.64	8.31	18.05	26.36	23.73	1.24	0.13	27.91	28.04
June	3-53	1.08	2.45	9.32	21.87	31.19	28.74	3.44	0.35	33.81	34.16
July	1.96	0.25	1.71	8.38	21,23	29.61	27.90	6.01	0.61	32.82	33.43
August	2.22	0.36	1.86	8.59	21.41	30.00	28.14	5.55	0.56	33.10	33.67
September	2.89	0.70	2.19	6.03	12.21	18.24	16.05	3.00	0.30	18.88	19.19
October	3.13	0.83	2.29	3.80	4.80	8.60	6.31	1.79	0.18	7.42	7.60
November	1.92	0.23	1.69	1.70	0.04	1.74	0.06	1.44	0.15	0.07	0.22
December	1.38	0.07	1.31	2.33	3.25	5.58	4.27	1.09	0.11	5.03	5.14
Totals	29.99	6.52	23.47	65.02	132.21	197.23	173.77	29.24	2.96	204.43	207.40

Crop is	Forage Sc	orghum & Small Grains			
CN	71.00	dimensionless	Maximum calculated application rate =	17.04	ac-in/ac/month OR ac-ft/ac/year
Се	5.25	mmhos/cm	Applicant's proposed application rate =		ac-in/ac/month OR ac-ft/ac/year
Cl	6.90	mmhos/cm	Maximum rate from agronomic analysis =	N/A	ac-in/ac/month OR ac-ft/ac/year
Pond area	6.18	acres			
Irrigation					
area	61.00	acres			
Irrigation Efficiency, K	0.85	dimensionless	Recommended rate for permit	= 17.04	ac-in/ac/month <b>OR</b> ac-ft/ac/year
Design Flow	0.192	MGD	Limiting factor	= Click this	cell to choose from list.
			Gross rate check (from flow, acres)	= 3.53	OK

- (2) Average rainfall Data source: Texas Water Development Board (see Quadrangle above)
- (4) Average infiltrated rainfall = (average rainfall average runoff)
- (5) Evapotranspiration Data Source: Mean Crop Consumptive Use and Free-Water Evaporation for Texas (Table 16 Stephenville).
- (6) Required leaching =

← Edit

- If: evapotranspiration average infiltrated rainfall  $\leq$  0, then 0;
- $If: evapotranspiration-average\ infiltrated\ rainfall\ >o,\ Ce\ /(Cl-Ce)*(evapotranspiration-avg\ infiltrated\ rainfall\ )$
- (7) Total water needs = evapotranspiration + required leaching
- (8) Effluent needed in root zone = total water needs average infiltrated rainfall
- (9a) Net evaporation Data source: Texas Water Development Board (see Quadrangle above)
- (9b) Raw net evaporation from reservoir surface =  $(net\ evaporation\ from\ reservoir\ )^*((pond\ area\ )/(irrigation\ area\ ))$
- (10) Effluent needed based on irrigation efficiency = (effluent needed in root zone )/(irrigation efficiency)
- (11) Consumption from reservoir = net evaporation from reservoir surface + effluent needed based on irrigation efficiency

## STORAGE CALCULATIONS, all units in inches (unless otherwise specified)

Permittee: Schreiber Foods, Inc
Permit No.: WQ0003074000

calculations are designed to evaluate the storage capacity and surface area

(12)	(13)	(14a)	(14b)	(15)	(16)	(17)	(18a)	(18b)	(19)	(20)
Month	Effluent	Average	Rain	Field	Infiltrated	Avail	Average	Low Net	Effluent	Accum
	Available	Rainfall	Worst	Runoff	Rain	Water	Net	Evap.	to Storage	Storage
ļ.	(as inches	Distrib.	Year	Worst			Evap.	from	(as inches	(as inches
	on plot	(%)		Year			Distrib.	Reservoir	on plot	on plot
	acres)						(%)	Surface	acres)	acres)
Units →	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches
January	3.53	5.29%	2.42	0.45	1.97	5.49	3.20%	0.01	-2.16	0
February	3.53	6.24%	2.85	0.68	2.18	5.70	2.76%	0.01	-3.03	0
March	3.53	9.18%	4.20	1.53	2.67	6.19	4.79%	0.01	-9.82	0
April	3.53	8.87%	4.06	1.44	2.63	6.15	8.67%	0.02	-13.83	0
May	3.53	13.66%	6.25	3.10	3.15	6.68	4.24%	0.01	-23.79	0
June	3.53	11.77%	5.39	2.41	2.97	6.50	11.75%	0.03	-29.70	0
July	3.53	6. <u>53</u> %	2.99	0.75	2.23	5.76	20.54%	0.05	-28.73	0
August	3.53	7.41%	3.39	0.99	2.40	5.92	18.99%	0.04	-28.99	0
September	3.53	9.64%	4.41	1.68	2.73	6.25	10.27%	0.02	-14.75	0
October	3.53	10.42%	4.77	1.94	2.83	6.35	6.12%	0.01	-3.28	0
November	3.53	6.41%	2.93	0.72	2.21	5.74	4.93%	0.01	3.51	3.51
December	3.53	4.59%	2.10	0.31	1.79	5.32	3.74%	0.01	-0.94	0
Totals	42.31	100%	45.77	16.02	29.75	72.06	100%	0.23	<del></del>	3.51

Worst (low) net evap. =	2.27 inches	Storage required =	17.87 ac-ft
Corresponding rain =	45.77 inches	Actual storage =	ac-ft
Worst-case net year =	2007	Additional storage required =	17.87 ac-ft
		Storage days =	30 days

- (13) Effluent available for irrigation (assumes design flow is applied to entire acerage unless different flow values are justified).
- (14a) Average rainfall distribution Data source: Texas Water Development Board (see Quadrangle in Water Balance Calculations above)
- (14b) Rainfall worst year =  $(rainfall\ distribution\ as\ fraction\ or\ \%/100)*maximum\ annual\ rainfall$
- (15) Field runoff worst year =  $[(rainfall\ worst\ year (0.2*((1000/CN) 10)))]^2/((rainfall\ worst\ year + (0.8*((1000/CN) 10))))]$
- (16) Infiltrated rainfall = (rainfall worst year- field runoff worst year)
- (17) Available water = (effluent available for land application + infiltrated rainfall check)
- (18a) Average net evaporation distribution Data source: Texas Water Development Board (see Quadrangle in Water Balance Calculations above)
- (18b) Net low evaporation from reservoir surface =  $[(|low\ net\ evaporation\ |)*(net\ low\ evaporation\ avg.\ dist\ )]*[(pond\ area\ )/(irrigation\ area\ )]$
- (19) Storage =
- If:  $(total\ water\ needs-infiltrated\ rainfall\ )<0,$   $(effluent\ available\ for\ land\ application\ -net\ low\ evaporation\ from\ reservoir\ surface\ );$ 
  - If:  $(total\ water\ needs-infiltrated\ rainfall\ ) \ge 0$ ,
- $(effluent\ available\ for\ land\ application-net\ low\ evaporation\ from\ reservoir\ surface)\ *\ [(total\ water\ needs-infilltrated\ rainfall)/(irrigation\ efficiency)]$
- (20) Accumulated storage =
  - If: net low evaporation from reservoir surface + storage  $\le 0$ , 0
  - If: net low evaporation from reservoir surface + storage > 0, enter value

## Figure 9.1 WATER BALANCE CALCULATIONS

Permittee:Schreiber Foods, IncTWDB Data Quadrangle:Permit No.:WQ0003074000509

The water balance calculations are designed to evaluate the maximum application rate (hydraulic loading rate) for the land area where irrigation is to occur. The applicant's proposed application rate must not must not exceed the maximum calculated application rate or the maximum application rate based on agronomic analyis.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9a)	(9b)	(10)	(11)
Month	Avg	Avg	Avg	Evapo-	Required	Total	Effluent	Raw	Reservoir	Effluent	Reservoir
	Rain	Runoff	Infilt	trans.	Leach	Water	Needed	Net	Net Evap.	Needed	Consumtion
			Rainfall			Needs	in	Evap.	(as inches	Based on	(as inches
							Root	from	on plot	Irrigation	on plot
							Zone	Reservoir	acres)	Efficiency	acres)
Units →	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches
January	1.59	0.12	1.46	2.74	4.06	6.80	5.34	0.93	0.09	6.28	6.37
February	1.87	0.22	1.65	3.11	4.63	7.74	6.09	0.81	0.08	7.16	7.25
March	2.75	0.62	2.13	4.97	9.03	14.00	11.87	1.40	0.14	13.97	14.11
April	2.66	0.57	2.09	5.74	11.62	17.36	15.27	2.54	0.26	17.97	18.23
May	4.10	1.46	2.64	8.38	18.28	26.66	24.02	1.24	0.13	28.26	28.38
June	3.53	1.08	2.45	9.62	22.82	32.44	30.00	3.44	0.35	35.29	35.64
July	1.96	0.25	1.71	8.48	21.55	30.03	28.32	6,01	0.61	33.32	33.92
August	2.22	0.36	1.86	7.51	17.97	25.48	23.62	5.55	0.56	27.79	28.35
September	2.89	0.70	2.19	0.74	0.00	0.74	0.00	3.00	0,30	0.00	0.30
October	3.13	0.83	2.29	2.15	0.00	2.15	0.00	1.79	0.18	0.00	0.18
November	1.92	0.23	1.69	1.70	0.04	1.74	0.06	1.44	0.15	0.07	0.22
December	1.38	0.07	1.31	2.33	3.25	5.58	4.27	1.09	0.11	5.03	5.14
Totals	29.99	6.52	23.47	57.47	113.26	170.73	148.86	29.24	2.96	175.13	178.09

Crop is	Soybe	ans & Small Grains			
CN	71.00	dimensionless	Maximum calculated application rate =	14.59	ac-in/ac/month OR ac-ft/ac/year
Се	5.25	mmhos/cm	Applicant's proposed application rate =		ac-in/ac/month OR ac-ft/ac/year
Cl	6.90	mmhos/cm	Maximum rate from agronomic analysis =	N/A	ac-in/ac/month OR ac-ft/ac/year
Pond area Irrigation	6.18	acres			
area	61.00	acres			
Irrigation Efficiency, K	0.85	dimensionless	Recommended rate for permit =	14.59	ac-in/ac/month <b>OR</b> ac-ft/ac/year
Design Flow	0.192	MGD	Limiting factor =	Click this c	ell to choose from list.
			Gross rate check (from flow, acres) =	3.53	OK

← Edit

- (2) Average rainfall Data source: Texas Water Development Board (see Quadrangle above)
- (4) Average infiltrated rainfall = (average rainfall average runoff)
- (5) Evapotranspiration Data Source: Mean Crop Consumptive Use and Free-Water Evaporation for Texas (Table 16).
- (6) Required leaching =

If: evapotranspiration – average infiltrated rainfall  $\leq 0$ , then 0;

 $If: evapotranspiration-average\ infiltrated\ rainfall\ > o,\ Ce\ /(Cl-Ce)*(evapotranspiration-avg\ infiltrated\ rainfall\ )$ 

- (7) Total water needs = evapotranspiration + required leaching
- (8) Effluent needed in root zone = total water needs average infiltrated rainfall
- (9a) Net evaporation Data source: Texas Water Development Board (see Quadrangle above)
- (9b) Raw net evaporation from reservoir surface = (net evaporation from reservoir )\*((pond area)/(irrigation area))
- (10) Effluent needed based on irrigation efficiency = (effluent needed in root zone)/(irrigation efficiency)
- $(11) \ {\rm Consumption} \ from \ reservoir = net \ evaporation \ from \ reservoir \ surface \ + \ effluent \ needed \ based \ on \ irrigation \ efficiency$

### STORAGE CALCULATIONS, all units in inches (unless otherwise specified)

Permittee: Schreiber Foods, Inc
Permit No.: WQ0003074000

calculations are designed to evaluate the storage capacity and surface area

(12)	(13)	(14a)	(14b)	(15)	(16)	(17)	(18a)	(18b)	(19)	(20)
Month	Effluent	Average	Rain	Field	Infiltrated	Avail	Average	Low Net	Effluent	Accum
	Available	Rainfall	Worst	Runoff	Rain	Water	Net	Evap.	to Storage	Storage
	(as inches	Distrib.	Year	Worst			Evap.	from	(as inches	(as inches
	on plot	(%)		Year			Distrib.	Reservoir	on plot	on plot
	acres)						(%)	Surface	acres)	acres)
Units $\rightarrow$	inches	inches	inches	inches	inches	inches	inches	inches	inches	inches
January	3.53	5.29%	2.42	0.45	1.97	5.49	3.20%	0.01	-2.16	0
February	3.53	6.24%	2.85	0.68	2.18	5.70	2.76%	0.01	-3.03	0
March	3.53	9.18%	4.20	1.53	2.67	6.19	4.79%	0.01	-9.82	0
April	3.53	8.87%	4.06	1.44	2.63	6.15	8.67%	0.02	-13.83	0
May	3.53	13.66%	6.25	3.10	3.15	6.68	4.24%	0.01	-24.14	0
June	3.53	11.77%	5.39	2.41	2.97	6.50	11.75%	0.03	-31.17	0
July	3.53	6.53%	2.99	0.75	2.23	5.76	20.54%	0.05	-29.22	0
August	3.53	7.41%	3.39	0.99	2.40	5.92	18.99%	0.04	-23.68	0
September	3.53	9.64%	4.41	1.68	2.73	6.25	10.27%	0.02	3.50	3.50
October	3.53	10.42%	4.77	1.94	2.83	6.35	6.12%	0.01	3.51	7.01
November	3.53	6.41%	2.93	0.72	2.21	5.74	4.93%	0.01	3.51	10.53
December	3.53	4.59%	2.10	0.31	1.79	5.32	3.74%	0.01	-0.94	0
Totals	42.31	100%	45.77	16.02	29.75	72.06	100%	0.23	=	10.53

Worst (low) net evap. =	2.27 inches	Storage required =	53.52 ac-ft
Corresponding rain =	45.77 inches	Actual storage =	ac-ft
Worst-case net year =	2007	Additional storage required =	53.52 ac-ft
		Storage days =	91 days

- (13) Effluent available for irrigation (assumes design flow is applied to entire acerage unless different flow values are justified).
- (14a) Average rainfall distribution Data source: Texas Water Development Board (see Quadrangle in Water Balance Calculations above)
- (14b) Rainfall worst year =  $(rainfall\ distribution\ as\ fraction\ or\ \%/100)*maximum\ annual\ rainfall$
- (15) Field runoff worst year =  $[(rainfall\ worst\ year (0.2*((1000/CN) 10)))]^2/((rainfall\ worst\ year + (0.8*((1000/CN) 10))))]$
- (16) Infiltrated rainfall = (rainfall worst year- field runoff worst year)
- (17) Available water = (effluent available for land application + infiltrated rainfall check)
- (18a) Average net evaporation distribution Data source: Texas Water Development Board (see Quadrangle in Water Balance Calculations above)
- (18b) Net low evaporation from reservoir surface =  $[(|low\ net\ evaporation|)*(net\ low\ evaporation\ avg.\ dist)]*[(pond\ area)/(irrigation\ area)]$
- (19) Storage =
- If:  $(total\ water\ needs\ -\ infiltrated\ rainfall\ )<0$ ,  $(effluent\ available\ for\ land\ application\ -\ net\ low\ evaporation\ from\ reservoir\ surface\ );$ 
  - If: (total water needs infiltrated rainfall)  $\geq 0$ ,
- (effluent available for land application net low evaporation from reservoir surface) \* [(total water needs infiltrated rainfall)/(irrigation efficiency)]
- (20) Accumulated storage =
  - If: net low evaporation from reservoir surface + storage  $\le 0$ , 0
  - If: net low evaporation from reservoir surface + storage > 0, enter value

## ATTACHMENT 10 – STORAGE LAGOON CONTINGENCY PLAN

## SCHREIBER FOODS, INC. STORAGE LAGOON CONTINGENCY PLAN

## Purpose

Schreiber Foods, Inc. ("Schreiber") is executing a production expansion that will increase the amount of wastewater effluent generated at the facility. This permit application is being submitted to request an effluent increase equal to that of the hydraulic capacity of the fields Schreiber irrigates (192,000 gpd monthly average). As part of our permit application, Schreiber has prepared the below noted contingency procedure that shall go into effect should the facility find that it is not able to consistently stay within the current lagoon capacity monthly average limit of 154,000 gpd.

Current engineering predictions that incorporate the planned expansion indicate that wastewater effluent will remain below a monthly average limit of 154,000 gpd, with much of the year being far below this limit. Schreiber recognizes that actual wastewater flow can be difficult to predict in a food manufacturing facility as several variables can cause increased wastewater effluent. Due to this fact, Schreiber wishes to be prepared with a contingency plan should actual effluent numbers indicate an inability to maintain an average monthly flow below 154,000 gpd.

## Procedure

The facility will monitor daily wastewater production and trend this data to fine tune our engineered predictions for future months. Should the facility's actual average daily discharge, or its future effluent predictions indicate an inability to remain below the monthly average limit of 154,000 gpd, Schreiber will develop a schedule, as well as take appropriate steps to reduce plant effluent, increase the capacity of the lagoon system or a combination of the two.

## ATTACHMENT 11 - PUBLIC INVOLVEMENT PLAN



Section 1. Preliminary Screening

Section 3. Application Information

Waste 

Municipal Solid Waste

Type of Application (check all that apply):

☐ Radioactive Materials Licensing

New Permit or Registration Application

Texas Commission on Environmental Quality

## Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

a morator of the u	bove boxes are checked, a Public Involvement Plan is not necessary. Completion of the remaining sections not required.
Section 2. Seconda	ry Screening
<ul><li>☒ Requires public no</li><li>☐ Considered to have</li><li>☐ Located within any</li><li>Austin</li></ul>	tice, e significant public interest, <u>and</u> f of the following geographical locations:  • San Antonio
• Dallas	• West Texas
<ul> <li>Fort Worth</li> </ul>	Texas Panhandle
<ul> <li>Houston</li> </ul>	<ul> <li>Along the Texas/Mexico Border</li> </ul>
<ul> <li>Other geograp</li> </ul>	hical locations should be decided on a case-by-case basis
If all of the above bo	oxes are not checked, a Public Involvement Plan is not necessary. Stop
□ Public Involvement	Plan not applicable to this application. Provide <b>brief</b> explanation.

 $\square$  Initial  $\square$  Federal  $\square$  Amendment  $\square$  Standard Permit  $\square$  Title V

TCEQ-20960 (10-10-2022)

Air

 $\square$  Industrial and Hazardous Waste

☐ Underground Injection Controls

	Water Quality
Ì	🛮 Texas Pollutant Discharge Elimination System (TPDES)
	🖾 Texas Land Application Permit (TLAP)
	☐ State Only Concentrated Animal Feeding Operation (CAFO)
	□ Water Treatment Plant Residuals Disposal Permit
	☐ Class B Biosolids Land Application Permit
	□ Domestic Septage Land Application Registration
	Water Rights New Permit
I	☐ New Appropriation of Water
	□ New or existing reservoir
l	
l	Amendment to an Existing Water Right
1	☐ Add a New Appropriation of Water
l	□ Add a New or Existing Reservoir
L	☐ Major Amendment that could affect other water rights or the environment
Γ	Section 4. Plain Language Summary
l	
l	Provide a brief description of planned activities.
ŀ	
1	Schreiber Foods, Inc. is a specialty dairy food manufacturer, producing a variety of cheeses.
	Section 5. Community and Demographic Information
	Community information can be found using EPA's EJ Screen, U.S. Census Bureau information,
	or generally available demographic tools.
_	Information gathered in this costion control is a like in the costion control in the costion control is a like in the costion control in the costion control in the costion control in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the cost in the
	Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.
	Stephenville
	(City)
	·
	Erath
	(County)

(Census Tract)	
Please indicate which of these three is the level used for gathering the following information.  □ City □ County □ Census Tract	
(a) Percent of people over 25 years of age who at least graduated from high school	
88.9%	
(b) Per capita income for population near the specified location	
\$24,810	
(c) Percent of minority population and percent of population by race within the specified location  White = 75.6%, Black or African American = 3.29%, Hispanic = 12.7%, Two or More Races = 2.11%  Other (Hispanic) = 2.68%, Asian = 1.2%, Indian = 1.000 Mg/Hispanic	
$\frac{1}{2} \frac{1}{2} \frac{1}$	
(d) Percent of Linguistically Isolated Households by language within the specified location 0%	
(e) Languages commonly spoken in area by percentage	
English = 89.4%, Spanish = 10.6%	
(f) Community and/or Stakeholder Groups	
N/A	
(g) Historic public interest or involvement	
N/A	
14/74	
Section 6. Planned Public Outreach Activities	
(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?	
⊠ Yes □ No	
(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?	
□ Yes 🖾 No	
If Yes, please describe.	
If you answered "yes" that this application is subject to 30 TAC Chapter 39,	
answering the remaining questions in Section 6 is not required	
(c) Will you provide notice of this application in alternative languages?  ☐ Yes ☐ No	
Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.	
If yes, how will you provide notice in alternative languages?	
☐ Publish in alternative language newspaper	
☐ Posted on Commissioner's Integrated Database Website	
and a supposed a supposed by supposed the supposed by supposed the supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by supposed by	

## ATTACHMENT 12 – GROUNDWATER TECHNICAL REPORT

## 12.1 Purpose

The purpose of this section is to provide information on the geologic features and groundwater resources in the area of the Schreiber Foods, Inc. property, and to identify Best Management Practices (BMP)s that will be used to protect these resources.

## 12.2 Geologic Atlas Map

Figure 12.1, Geologic Atlas Map, shows the geologic formations located at the property.

## 12.3 Geomorphologic/Geologic Features

The Windthorst-Duffau and Maloterre-Purves-Dugout soils in this area of Erath County are immediately underlain by the Paluxy and Glen Rose Formations as shown in Figure 12.1, Geologic Atlas Map. The Paluxy Formation consists of sandstone interbedded with claystone and siltstone, up to 100 feet thick, thinning southward. The Glen Rose Formation of Cretaceous age consists of alternating limestone and claystone with some sandstone, up to 250 feet thick in the southeastern area of the formation. (Geologic Atlas, 1976).

Forming the upper unit of the Trinity Group, the Paluxy Formation consists of up to 400 feet of predominantly fine to coarse-grained sand interbedded with clay and shale. Underlying the Paluxy, the Glen Rose Formation forms a gulfward-thickening wedge of marine carbonates consisting primarily of limestone. Paluxy bedrock outcrops along the northeast portion of this site. Limiting application rates of wastewater and manure will protect this feature form adverse impacts.

The basal unit of the Trinity Group consists of the Twin Mountains and Travis Peak formations, which are laterally separated by a facies change. To the north, the Twin Mountains Formation consists mainly of medium-to coarse-grained sands, silty clays, and conglomerates (Ashworth, 1995).

A water well driller's log for a neighboring well drilled in 2010 indicates the subsurface geology to consist of clay and rock from 0-182 feet below the surface, followed by sand and clay stripes and shale from 182-470 feet, with a total well depth of 470 feet.

## 12.4 Aquifer Information

The Trinity Aquifer consists of early Cretaceous age formations of the Trinity Group where they occur in a band extending through the central part of the state in all or parts of 55 counties, from the Red River in North Texas to the Hill Country of South-Central Texas.

Formations comprising the Trinity Group are (from youngest to oldest) the Paluxy, Glen Rose, and Twin Mountains-Travis Peak. Updip, where the Glen Rose thins or is missing, the Paluxy and Twin Mountains coalesce to form the Antlers Formation. The Antlers consists of up to 900 feet of sand and gravel, with clay beds in the middle section. Water from the Antlers is mainly used for irrigation in the outcrop area of North and Central Texas (Ashworth and Hopkins, 1995).

The aquifer is underlain and confined by low-permeability rocks that range in age from Precambrian to Jurassic. Where the aquifer does not crop out, it is confined above by the Walnut Formation in most of the area.

Recharge to the Trinity aquifer is generally as precipitation that falls on aquifer outcrop areas and as seepage from streams and ponds where the head gradient is downward. In the Hill County, water might flow laterally into the Trinity aquifer from the adjacent Edwards-Trinity aquifer. The aquifer discharges by evapotranspiration, spring discharge, diffuse lateral or upward leakage into shallow aquifers, and withdrawals from wells.

## 12.5 Water Wells

All water wells within the 500-ft radius of the property boundary are identified in attachment 6.

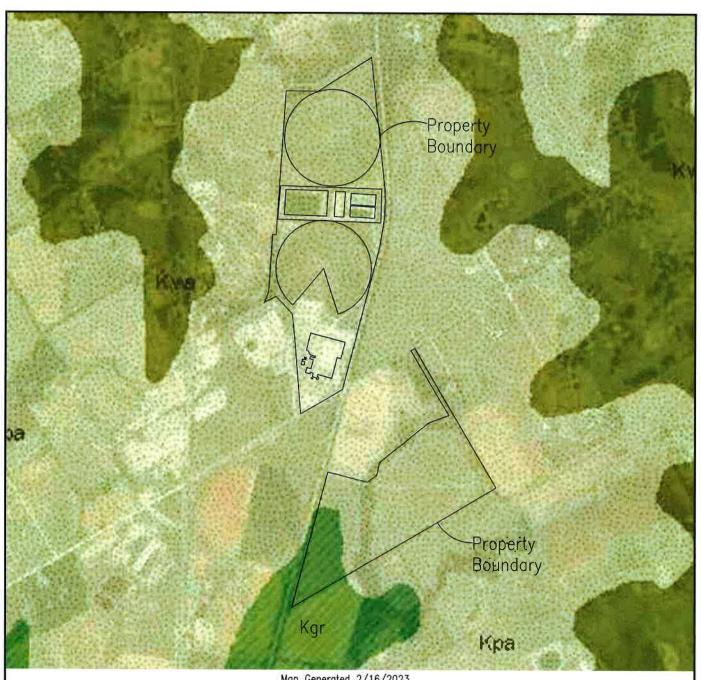
## 12.6 Best Management Practices

The existing irrigation system is designed to irrigate the hayland areas at a designed application rate that will not exceed the infiltration rate of the soils. Due to the low application rates, no pooling, ponding or tailwater is anticipated in the sprinkler irrigated areas. The surface irrigation system is also designed to minimize the creation of tailwater. All treatment/irrigation storage ponds are lined in accordance with the TCEQ rules.

## 12.7 References

Ashworth and Hopkins, November 1995. Aquifers of Texas. Report 345, Texas Water Development Board.

Bureau of Economic Geology, The University of Texas at Austin, Geologic Atlas of Texas – Abilene Sheet. 1976.



Map Generated 2/16/2023

<u>Legend:</u> Kpa Cretaceous Paluxy Formation Kgr Cretaceous Glen Rose Formation

1,320'

United States Geological Survey. Available at: Source:

http://txpub.usgs.gov.

Schreiber Foods, Inc. Stephenville, TX **Erath County** 

Geologic Atlas Map Figure 12.1 Page 34

ENGINEERING, INC.

ENVIRO—AG Enviro-Ag Engineering, Inc.

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