

Kansas Department of Agriculture
 Division of Water Resources
CHANGE: P/D P/U WORKSHEET

1. File Number: 48677	2. Status Change Date:	3. Change Num: 1	4. Field Office: 02	5. GMD: 02	
6. Status: <input type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return				7. Filing Date of Change: 1/29/19	
8a. Applicant(s) New to system <input type="checkbox"/>		Person ID _____ Add Seq# _____		8c. Landowner(s) New to system <input type="checkbox"/>	
8b. Landowner(s) New to system <input type="checkbox"/>		Person ID 48677 Add Seq# 1		8d. WUC New to system <input type="checkbox"/>	
CAROLYN WILLIAMS INC 326 SPRUCE ST HALSTEAD KS 67056		CAROLYN WILLIAMS INC 326 SPRUCE ST HALSTEAD KS 67056		CAROLYN WILLIAMS INC 326 SPRUCE ST HALSTEAD KS 67056	
9. Documents and Enclosure(s): <input checked="" type="checkbox"/> DWR Meter(s) Date to Comply: 12/31/19 <input checked="" type="checkbox"/> N & P Date to Comply: 12/31/19					
<input type="checkbox"/> Anti-Reverse Meter <input type="checkbox"/> Meter Seal <input checked="" type="checkbox"/> Check Valve <input checked="" type="checkbox"/> N & P Form <input checked="" type="checkbox"/> Water Tube <input checked="" type="checkbox"/> Driller Copy <input checked="" type="checkbox"/> H & E Letter					
<input type="checkbox"/> Conservation Plan Date Required: _____ Date Approved: _____ Date to Comply: _____					
10. Use Made of Water From: _____ To: _____					
				Date Prepared: 5/8/19 By: TJS	
				Date Entered: _____ By: _____	

File No. **48677** 11. County: **SEDGWICK** Basin: **Arkansas River** Stream: --- Formation Code: **190** Special Use: ---

12. Points of Diversion										Rate and Quantity							
CHK	MOD	DEL	ENT	PDIV	Qualifier	S	T	R	ID	'N	'W	Comment (AKA Line)	Rate gpm/cfs	Quantity af/mgy	Rate gpm/cfs	Quantity af/mgy	Overlap PD Files
DEL	81763								2								None
ENT		NE SW NW	21	25S	2W					3455	1410		No change to rate or quantity			None	

13. Storage: Rate _____ NF Quantity _____ ac/ft Additional Rate _____ NF Additional Quantity _____ ac/ft

14. Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____
 Limitation: _____ af/yr at _____ gpm (_____ cfs) when combined with file number(s) _____

15. 5YR Allocation: Allocation Type _____ Start Year _____ 5 YR Amount _____ Amount Unit _____ Base Acres _____ Comment _____

16. Place of Use																		Total	Owner	Chg?	Overlap Files					
CHK	MOD	DEL	ENT	PUSE	S	T	R	ID		NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼					
MOD	64837	21	25S	2W	1					33	33	33	34					32.5	15	0.5	4	185	8b.	No	None	

Base Acres: **175** Year: **Permit** Minimum Reasonable Quantity: **1.05 AF/acre**

Comments:

Submit completed application to:
 Kansas Department of Agriculture
 Division of Water Resources
 Field Office for your area.
 Call for address:

Topeka -- (785) 296-5733
 Stafford -- (620) 234-5311
 Stockton -- (785) 425-6787
 Garden City -- (620) 276-2901
<http://agriculture.ks.gov/dwr>

DWR FIELD OFFICE APPLICATION FOR APPROVAL TO CHANGE THE PLACE OF USE AND/OR THE POINT OF DIVERSION



STATE OF KANSAS

WATER METER REQUIRED

Filing Fee Must Accompany the Application, K.S.A. 82a-708b(b), as amended.
 Fee Schedule is on the third page of this application form.

Paragraph Nos. 1, 2, 3 & 5 must be completed. Complete all other applicable portions. If change in point of diversion is greater than 100 feet, or if place of use will be changed, include a topographic map or detailed plat showing the authorized and proposed point(s) of diversion and/or place of use.

RECEIVED
 10:14am
 JAN 29 2019

File No. 48677

1. Application is hereby made for approval of the Chief Engineer to change the (check one or both):

Place of Use Point of Diversion

Stafford Field Office
 Division of Water Resources

under the water right which is the subject of this application in accordance with the conditions described below.

The source of supply is: Groundwater Surface water

2. Name and address of Applicant: Carolyn Williams Inc.
326 Spruce Street, Halstead, KS 67056

Phone Number: (316)830-2844 Email address: _____

Name and address of Water Use Correspondent: Carolyn Williams Inc.
326 Spruce Street, Halstead, KS 67056

Phone Number: (316)830-2844 Email address: _____

3. The presently authorized place of use is:

Owner of Land ---- NAME: Carolyn Williams Inc.

ADDRESS: 326 Spruce Street, Halstead, KS 67056

(If there is more than one landowner, attach supplemental sheets as necessary.)

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
21	25S	2W	33	33	33	33					31	5		7					175

4. If this application is for a change in place of use, it is proposed that the place of use be changed to:

Owner of Land ---- NAME: Carolyn Williams Inc.

ADDRESS: 326 Spruce Street, Halstead, KS 67056

(If there is more than one landowner, attach supplemental sheets as necessary.)

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
21	25S	2W	33	33	33	34									32.5	15	0.5	4	185

For Office Use Only: Code _____ Fee \$ 400- TR # _____ Receipt Date _____ Check # 1382

5. **Presently authorized point of diversion:**
 One in the NE Quarter of the SE Quarter of the SW Quarter of Section 21, Township 25 South, Range 2W (E/W), in Sedgwick County, Kansas, 1278 feet North 2898 feet West of Southeast corner of section. Authorized Rate 1000 GPM Authorized Quantity 227.50 AF Depth of well 37 (feet)
(DWR use only: Computer ID No. _____ GPS 1295 feet North 2708 feet West)
 This point will not be changed This point will be changed as follows: No change, point better described with GPS as follows:
Proposed point of diversion: (Complete only if change is requested or if existing point is better described by GPS)
 One in the NE Quarter of the SW Quarter of the NE Quarter of Section 21, Township 25 South, Range 2W (E/W), in Sedgwick County, Kansas, 3455 feet North 1410 feet West of Southeast corner of section. Proposed Rate 1000 GPM Proposed Quantity 227.50 AF Proposed well depth (feet) ~40.
 This point is: Additional Well Geo Center List other water rights that will use this point _____.

6. **Presently authorized point of diversion:**
 One in the _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (E/W), in _____ County, Kansas, _____ feet North _____ feet West of Southeast corner of section. Authorized Rate _____ Authorized Quantity _____ Depth of well _____ (feet)
(DWR use only: Computer ID No. _____ GPS _____ feet North _____ feet West)
 This point will not be changed This point will be changed as follows: No change, point better described with GPS as follows:
Proposed point of diversion: (Complete only if change is requested or if existing point is better described by GPS)
 One in the _____ Quarter of the _____ Quarter of the _____ Quarter of Section _____, Township _____ South, Range _____ (E/W), in _____ County, Kansas, _____ feet North _____ feet West of Southeast corner of section. Proposed Rate _____ Proposed Quantity _____ Proposed well depth (feet) _____.
 This point is: Additional Well Geo Center List other water rights that will use this point _____.

7. The changes herein are desired for the following reasons?
 (please be specific) Modifying place of use and moving well to location with less salinity and better water quality.

8. If a well, is the test hole log attached? Yes No

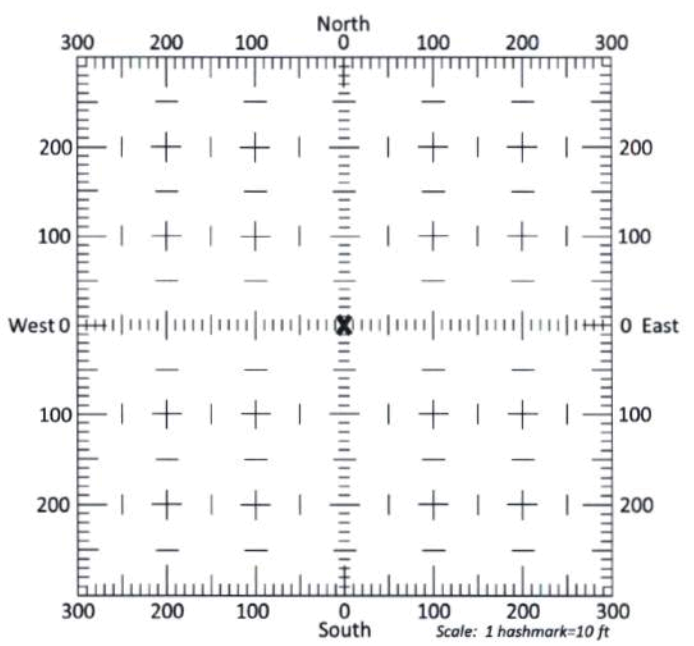
9. The change(s) (was)(will be) completed by?
ASAP

10. If the point of diversion is a well:
 (a) What are you going to do with the old well?
Plug it
 (b) When will this be done? When new well drilled

11. Groundwater Management District recommendation attached? Yes No

12. Assisted by T. Boese, GMD2

13a. If the proposed point of diversion will be relocated more than 300 feet but within 2,640 feet of the existing point of diversion, attach a topographic map or aerial photograph. For groundwater sources, show all wells (including domestic) within one-half mile of the proposed point of diversion and the names and mailing addresses of the owners. For surface water sources, show the names and addresses of the landowner(s) one-half mile downstream and one-half mile upstream from your property lines



13b. If the proposed point of diversion will be relocated within 300 feet of the existing point of diversion, indicate its location on the diagram shown above in relation to the existing point of diversion. **(PLEASE NOTE: The "X" in center of diagram above represents the presently authorized point of diversion.)**

14. If the proposed groundwater point of diversion is 300 or fewer feet from the existing point of diversion, complete the following:
- (a) Does the undersigned represent all owners of the currently authorized place(s) of use identified in this application?
 Yes No (If no, all owners must sign this application.)
 - (b) Will the ownership interest of any owner of the currently authorized place(s) of use identified in this application be adversely affected if this application is approved as requested?
 Yes No (If yes, all owners must sign this application.)
 - (c) If this application is not approved expeditiously, will there be substantial damage to property, public health or safety?
 Yes No (If no, all owners must sign this application.)

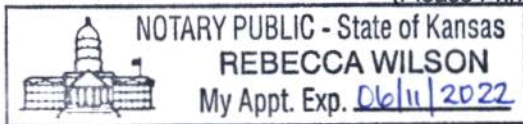
If the application proposes a surface water change in point of diversion, a groundwater change in point of diversion greater than 300 feet, or a change in place of use, the application must be signed by all owners of the currently authorized place of use, or their duly authorized agent (attach notarized statement authorizing representation).

I hereby verify, being first duly sworn upon my oath or affirmation and under penalty of perjury, that I am of lawful age and the owner, the spouse of the owner, or a duly authorized agent of the owner(s) to make this application on their behalf, in regards to the water right(s) to which this application pertains. I further verify that the statements contained in this application are true, correct and complete.

Dated at Halstead _____, Kansas, this 23rd day of January, 2019.

<p><u>Carolyn Williams</u> (Owner)</p> <p>Carolyn Williams, President, Carolyn Williams Inc (Please Print)</p> <p>_____ (Owner)</p> <p>_____ (Please Print)</p> <p>_____ (Owner)</p> <p>_____ (Please Print)</p>	<p>_____ (Spouse)</p> <p>_____ (Please Print)</p> <p>_____ (Spouse)</p> <p>_____ (Please Print)</p> <p>_____ (Spouse)</p> <p>_____ (Please Print)</p>
--	---

State of Kansas }
 County of HARVEY } SS



I hereby certify that the foregoing application was signed in my presence and sworn to before me this 23rd day of JANUARY, 2019.

Rebecca Wilson
Notary Public

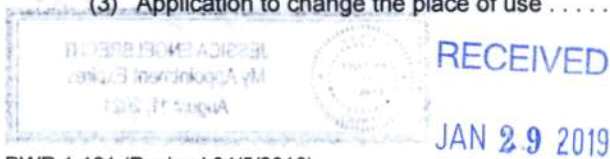
My Commission Expires 06/11/2022

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be complete, all of the applicable portions of the application form must be completed with accurate information; maps, if necessary, must be included; signatures of all the appropriate owners' must be affixed to the application and notarized; and the appropriate fee must be paid.

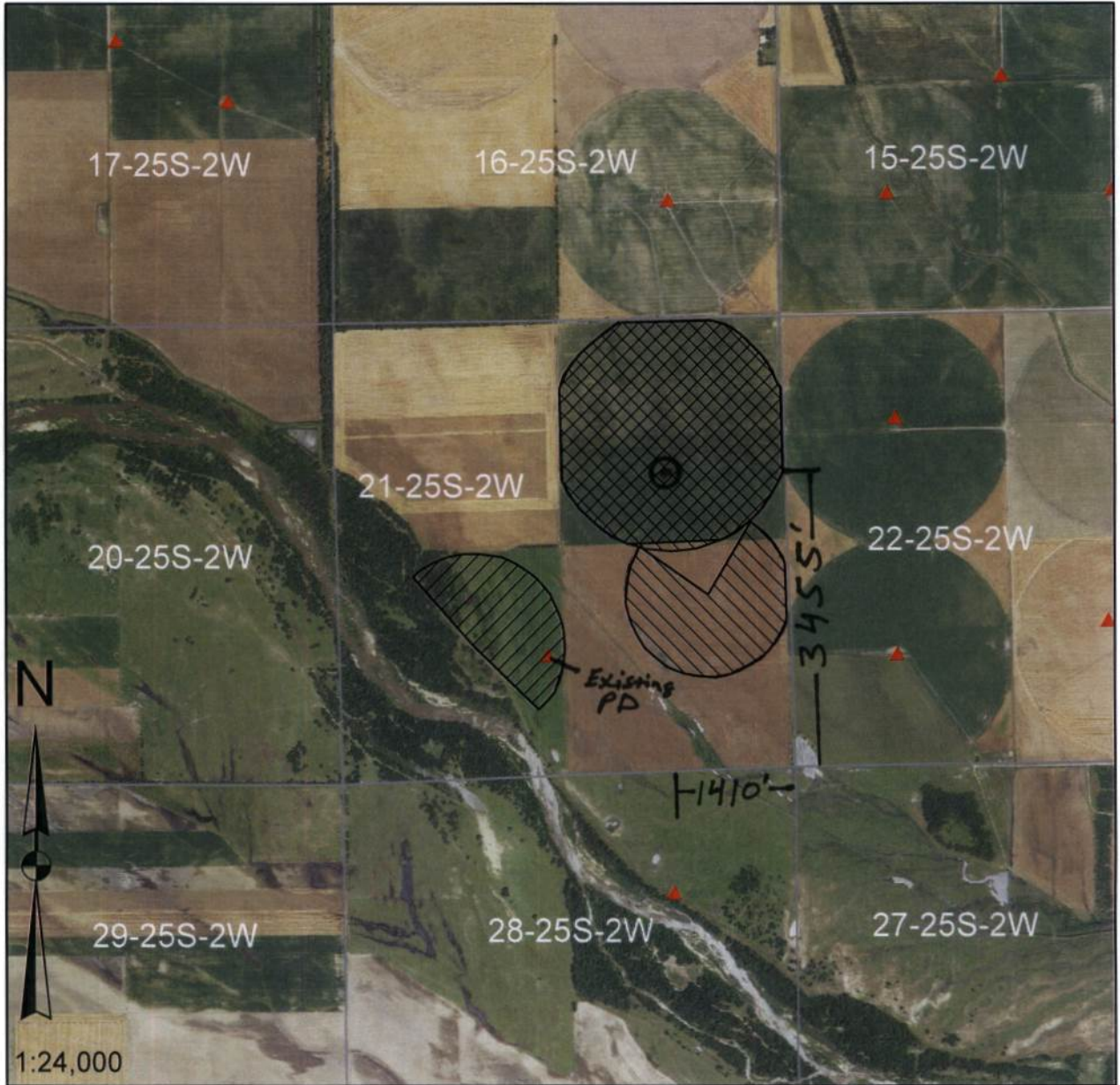
FEE SCHEDULE

Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: **Kansas Department of Agriculture**

- (1) Application to change a point of diversion 300 feet or less \$100
- (2) Application to change a point of diversion more than 300 feet \$200
- (3) Application to change the place of use \$200



Application Map - File No. 48677



I declare that all water wells or diversion sites using the same source of supply and within 1/2 mile of the proposed point of diversion have been plotted on the application map.

Carolee Williams
Signature
President

January 23, 2019
Date

- New Application
- Application No. 48677 To Change:

- Point of Diversion
- Place of Use
- Use Made of Water

Proposed Point of Diversion

Existing Points of Diversion

Proposed Place of Use

Authorized Place of Use

Water wells within 1/2 mile of proposed point of diversion include: (type use, owner, address)

- 1) There are no known wells within 1/2 mile
- 2) of the proposed point of diversion

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JAN 29 2019

INPUTS	
Target Section Definition	
Section	21
Township	25
Range	2
Range Direction	w
Target Point Coordinates (NAD27 or NAD83)	
Target Longitude	-97.546000 NAD27
Target Latitude	37.858080

Load Data and Compute

Instructions

1. Enter values for section, township, range and range direction.
2. Enter **NAD27** or **NAD83** longitude and latitude of target point.
3. Click "Load Data and Compute" button.
4. Use feet distances corresponding to datum of target point.

Longitude changed

Latitude changed

File No. 48677 well location

Existing PA

UTM - NAD27

4190860

627910

12/4/2018

Loaded Section Data From LEOBASE using NAD83		
Corner	Corner Latitudes	Corner Longitudes
SW	37.85413771	-97.55548378
NW	37.86875558	-97.55575753
NE	37.86890780	-97.53738608
SE	37.85453468	-97.53694351
Degrees Longitude per Foot		3.46365713E-06
Degrees Latitude per Foot		2.74615901E-06
Target Point Distances from Corners using NAD83		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	1436	-2738
NW	-3887	-2817
NE	-3943	2487
SE	1291	2615

Loaded Section Data From LEOBASE using NAD27		
Corner	Corner Latitudes	Corner Longitudes
SW	37.85412600	-97.55516100
NW	37.86874400	-97.55543500
NE	37.86889600	-97.53706400
SE	37.85452300	-97.53662100
Degrees Longitude per Foot		3.46365658E-06
Degrees Latitude per Foot		2.74598553E-06
Target Point Distances from Corners using NAD27		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	1440	-2645
NW	-3883	-2724
NE	-3939	2580
SE	1295	2708

Difference (NAD83 Minus NAD27)		
Corner	Corner Latitudes	Corner Longitudes
SW	0.00001171	-0.00032278
NW	0.00001158	-0.00032253
NE	0.00001180	-0.00032208
SE	0.00001168	-0.00032251

Difference (NAD83 Minus NAD27)		
Corner	Feet North(+)/South(-)	Feet East(-)/West(+)
SW	-4.35510092	-93.19009963
NW	-3.97146940	-93.11790908
NE	-4.04808448	-92.98882636
SE	-4.33504344	-93.11299280

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JAN 29 2019

Stafford Field Office

Equus Beds Groundwater Management District No. 2 Abandoned Well Plugging Agreement

I, Carolyn Williams Inc, the undersigned and owner of an abandoned water well understand that an abandoned water well is a groundwater contamination threat and a public health and safety hazard.

The abandoned water well is located NE, SE, SW, Section 21, Township 25 South, Range 2W West, Sedgwick County which is approximately 1295 feet north and 2708 feet west of the apparent SE section corner. Total well depth is 37 feet and the diameter of the well is 16 inches. Current depth to static water level in the well is ~10 feet below land surface. The well was previously authorized by water permit no. 48677.

I agree to properly plug the abandoned well pursuant to the Equus Beds Groundwater Management District rules and regulations K.A.R. 28-30-200 through K.A.R. 28-30-207 and the following agreement provisions:

1. Well plugging operations will be supervised by either (a) a water well contractor licensed with the Kansas Department of Health and Environment, (b) a profession engineer or geologist licensed to practice in the State of Kansas, or (c) the abandoned water well owner or land owner of the property on which the water well or borehole is located.
2. The above described well will be plugged: a) by December 31, 19, or b) within 30 days after the replacement well, approved by a change in point of diversion, becomes operational.
3. A completed WWC-5P form will be submitted to the Kansas Department of Health and Environment within 30 days after the abandoned well is plugged and a copy of the WWC-5P form will be furnished to the District within the same period of time.
4. The well owner or authorized agent will notify the District 48 hours before plugging operations occur.
5. Failure to comply with the provisions of this agreement shall constitute noncompliance of the groundwater management district rules and regulations K.A.R. 28-30-200 through K.A.R. 28-30-207.

Dated this 23rd day of January, 2019 at Halstead, KS

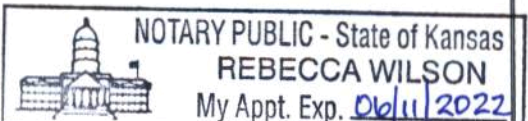
Signature Carolyn Williams
Address 326 Spruce Street
City, State, Zip Code Halstead, KS 67056
Telephone 316-830-2844

State of Kansas County of HARVEY

Subscribed and affirmed to before me this 23RD day of JANUARY, 2019.

by Rebecca Wilson
(Notary Public)

My Commission Expires 06/11/2022



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JAN 29 2019

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

48677

Well ID

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Sedgwick Fraction SE 1/4 SE 1/4 NE 1/4 SW 1/4 Section Number 21 Township Number T 25 S Range Number R 2 E W

2 WELL OWNER: Last Name: First: Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: N. 151st St W. and W. 93rd St. N. NORTH WELL

3 LOCATE WELL WITH "X" IN SECTION BOX: N W E S 1 mile. 4 DEPTH OF COMPLETED WELL: 37 ft. 5 Latitude: 37.858427 Longitude: 97.546316 6 Elevation: 1395 ft. Ground Level TOC Other KOLAR

7 WELL WATER TO BE USED AS: 1. Domestic: Household, Lawn & Garden, Livestock, Irrigation, Feedlot, Industrial. 2. Public Water Supply, Dewatering, Aquifer Recharge, Monitoring, Environmental Remediation, Air Sparge, Soil Vapor Extraction, Recovery, Injection. 10. Oil Field Water Supply, lease. 11. Test Hole, well ID. 12. Geothermal, how many bores? 13. Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? Yes No If yes, date sample was submitted: Water well disinfected? Yes No

8 TYPE OF CASING USED: Steel PVC Other CASING JOINTS: Glued Clamped Welded Threaded Casing diameter 16 in. to 37 ft. Diameter in. to ft. Casing height above land surface 18 in. Weight lbs./ft. Wall thickness or gauge No. 0.50 TYPE OF SCREEN OR PERFORATION MATERIAL: Steel Stainless Steel Fiberglass PVC Other (Specify) Brass Galvanized Steel Concrete tile None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: Continuous Slot Mill Slot Gauze Wrapped Torch Cut Drilled Holes Other (Specify) Louvered Shutter Key Punched Wire Wrapped Saw Cut None (Open Hole) SCREEN-PERFORATED INTERVALS: From 20 ft. to 37 ft. GRAVEL PACK INTERVALS: From 23 ft. to 37 ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other Grout Intervals: From 3 ft. to 23 ft. Nearest source of possible contamination: Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well Other (Specify) Monitoring well Direction from well? North Distance from well? 50 ft.

Table with 4 columns: 10 FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows: 0-9 Clay, 9-27 Sand + Gravel, 27-29 Clay, 29-37 Sand + Gravel.

Notes:

11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was constructed, reconstructed, or plugged under my jurisdiction and was completed on (mo-day-year) 12/4/2017 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 238 This Water Well Record was completed on (mo-day-year) 12/7/2017 under the business name of Premier Pump and Well Service, Inc.



Stafford Field Office
300 S. Main Street
Stafford, KS 67578-1521

Phone: 620-234-5311
Fax: 620-234-6900
www.agriculture.ks.gov

Mike Beam, Interim Secretary

Laura Kelly, Governor

May 21, 2019

Carolyn Williams Inc
326 Spruce St
Halstead KS 67056

Re: Water Appropriation, File No(s). 48,677

Dear Water Right Owner:

Enclosed is the order executed by the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, approving the application for change under the above referenced file number(s).

Your attention is directed to the enclosures and to the terms, conditions and limitations specified in this approval for change. Please note Condition #4 listed on the Summary Order (Page 4) specifically states that the point of diversion authorized by the approved change application shall not actually be located more than 2640 feet from the previously authorized point of diversion.

An acceptable water flow meter must be installed on your well before any water is applied as authorized under this change approval. A copy of the approved list of Certified Water Flowmeters as well as the regulations regarding the installation of flowmeters, measurement tubes and check valves can be found at <http://agriculture.ks.gov/divisions-programs/dwr/water-appropriation/water-flowmeters>. If you do not have access to the internet, please contact this office and we will send you a paper copy of the referenced information.

Since this order modifies the original document referred to above, it should be recorded with the Register of Deeds as other instruments affecting real estate.

This order requires that a notice and completion of works form be submitted once the diversion works are completed, including a properly installed flowmeter. This form is available at the referenced website.

Any abandoned well must be plugged in accordance with the requirements of Article 30 of the Rules and Regulations as adopted by the Kansas Department of Health and Environment.

Should you have any questions, please feel free to contact this office. If you wish to refer to a specific file, please reference it when you contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Lanterman".

Jeff Lanterman
Water Commissioner

Enclosures

pc: Water Rights Section
Groundwater Management District No. 2

CERTIFICATE OF SERVICE

On this **21st** day of **May, 2019**, I hereby certify that the attached Change in Place of Use and Point of Diversion for Water Right, File No. **48677**, dated **May 21, 2019** was mailed via Certified U.S. mail to the following:

Carolyn Williams Inc
326 Spruce Street
Halstead KS 67056

A copy of the letter was sent via First Class U.S. Mail to the following:

GMD 2


Staff

Conant, Cameron [KDA]

From: Conant, Cameron [KDA]
Sent: Thursday, April 25, 2019 8:35 AM
To: Rebecca Wilson
Cc: Saryerwinnie, Tyler [KDA]
Subject: File No. 48677 recommendation request
Attachments: 48677.Change App.pdf; 48677 cover letter.pdf

Rebecca,

I've attached a cover letter and a copy of one (1) point of diversion/place of use change application for GMD review and recommendation. Please provide the GMD recommendation by no later than May 15, 2019.

Please let me know if you have any questions or concerns. Thanks,

Cameron R. Conant

Assistant Water Commissioner
Kansas Department of Agriculture-DWR
Stafford Field Office
(620) 234-5311

Stafford Field Office
300 S. Main Street
Stafford, KS 67578-1521



Phone: 620-234-5311
Fax: 620-234-6900
www.agriculture.ks.gov

Mike Beam, Secretary

Laura Kelly, Governor

April 25, 2019

Tim Boese
Equus Beds – GMD No. 2
313 Spruce Street
Halstead, KS 67056

RE: Point of Diversion/Place of Use Change Application, File No. 48,677

Dear Mr. Boese,

We are enclosing a copy of the application, as referenced above, for your review and recommendation. At this time the application appears to be in proper form. Please note that the application map stated that there are no known wells within one-half mile of the proposed point of diversion.

This office will delay any further action on this file for a period of 15 business days from the date of this letter to allow you time to submit your recommendations concerning the application. Please submit your recommendation within the allotted time, or any authorized extension of time thereof.

If you have any questions, please feel free to contact the office.

Sincerely,

A handwritten signature in blue ink that reads "Cameron R. Conant".

Cameron R. Conant
Assistant Water Commissioner
Stafford Field Office
cameron.conant@ks.gov

Enclosure

Saryerwinnie, Tyler [KDA]

From: Conant, Cameron [KDA]
Sent: Tuesday, May 07, 2019 5:02 PM
To: Saryerwinnie, Tyler [KDA]
Cc: Lanterman, Jeff [KDA]
Subject: FW: 48677 PU Change App Approval Recommendation
Attachments: 48677 PU Change App Approval Recommendation 5-06-19.pdf; 48677 Meter Installation Letter 5-06-19.pdf

From: Rebecca Wilson <rwilson@gmd2.org>
Sent: Tuesday, May 7, 2019 4:50 PM
To: Conant, Cameron [KDA] <Cameron.Conant@ks.gov>
Cc: Engelbrecht, Jessica [KDA] <Jessica.Engelbrecht@ks.gov>
Subject: 48677 PU Change App Approval Recommendation

EXTERNAL: This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Hello!

Attached you will find the Change in Place of Use Application Approval Recommendation Letter and Meter Installation Letter from Manager Tim Boese for file #48677.

Please let me know if you have any difficulties opening the attachments.

Thanks!

Rebecca Wilson

Rebecca Wilson
Administrative Assistant
Equus Beds GMD2
313 Spruce Street
Halstead, KS 67056
316-835-2224
316-835-2225 Fax
rwilson@gmd2.org
www.gmd2.org

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MAY 07 2019

Stafford Field Office
Division of Water Resources

JEFF WINTER, PRESIDENT
VIN KISSICK, VICE PRESIDENT
ALAN BURGHART, SECRETARY
MIKE MCGINN, TREASURER
TIM BOESE, MANAGER
THOMAS A. ADRIAN, ATTORNEY



DIRECTORS:
DAVID BOGNER
JOE PAJOR
DALE SCHMIDT
BOB SEILER
DAVID STROBERG

EQUUS BEDS GROUNDWATER MANAGEMENT DISTRICT NO. 2

313 SPRUCE STREET • HALSTEAD, KANSAS 67056-1925 • PHONE (316) 835-2224 • FAX (316) 835-2225 • equusbeds@gmd2.org • www.gmd2.org

May 6, 2019

Chief Engineer, Division of Water Resources
Attn: Cameron Conant
300 S. Main Street
Stafford, KS 67578-1521

Re: Water Permit No. 48677 Change Application – Carolyn Williams Inc.

Dear Mr. Conant:

The Equus Beds Groundwater Management District No. 2 reviewed the referenced change in place of use and point of diversion application on May 6, 2019, using the District's Revised Management Program (effective May 1, 1995) and Rules and Regulations K.A.R. 5-22-1 through 5-22-17.

The District's review found that change application proposes to modify and increase the place of from 175 acres to 185 acres. The change application also proposes to move the authorized well location approximately 2,637 feet northeast to a new well location located in the Northeast Quarter of the Southwest Quarter of the Northeast Quarter of Section 21, Township 25 South, Range 2 West, Sedgwick County.

This change application complies with the District's Revised Management Program (effective May 1, 1995) and Rules and Regulations K.A.R. 5-22-1 through 5-22-17. Based upon the review, the change application is recommended for approval by the Equus Beds Groundwater Management District No. 2.

A District decision may be appealed to the District Board of Directors by submitting a written petition to the District office within 30 days from date of this notification, pursuant to K.A.R. 5-22-12.

Sincerely,
EQUUS BEDS GROUNDWATER
MANAGEMENT DISTRICT NO. 2

Tim Boese
Manager
TDB/db

Enclosure

pc: Carolyn Williams Inc., Applicant and Landowner



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EQUUS BEDS GROUNDWATER MANAGEMENT DISTRICT NO. 2 FINAL APPLICATION REVIEW CHECKLIST

1) Application No. 48677 Date filed: January 29, 2019
 2) Proposed maximum quantity: 227.5 acre-feet/year Rate: 1000 GPM
 3) Proposed Use: Irrigation
 4) P/D location: NESWNE 21-25S-2W Geo Center: North 3455 ft, West 1410 ft
 5) Number and type of points of diversion listed on the application 1 Well _____

6) Is the well location on the app the same on the evaluation sheet? Yes No
 7) Meter required K.A.R. 5-22-4a or K.A.R. 5-22-8? Yes No, Why ___
 8) Meets change app requirements K.A.R. 5-22-8? Yes No N/A

9) Meets Safe Yield K.A.R. 5-22-7? Yes No N/A
 9(a) Safe yield analysis total existing appropriations: _____ af/yr
 9(b) Safe yield total allowable appropriations: _____ af/yr
 9(c) Total appropriations for small user exemptions: _____ af/yr
 9(d) Total appropriations for non-consumptive use: _____ af/yr
 9(e) Total appropriations for consumptive use: _____ af/yr
 (total existing appropriations) - (non-consumptive appropriations)
 9(f) exempt from regulation? Yes No
 Cite exemption: K.A.R. 5-22-7(b)(3)

10) Meets Well Spacing K.A.R. 5-22-2? Yes No N/A
 10(a) POD in enhanced well spacing area? Yes No
 10(b) Domestic well spacing interval: >660 ft
 10(c) Non-Domestic well spacing interval: >1320 ft

11) Meets Max Reasonable Quantity K.A.R. 5-22-14? Yes No N/A
 11(a) Irrigation max quantity: 1.23 acre-feet / acre
 application paragraph 3 value (acre-feet) / proposed acres = Q
 11(b) Stockwater max quantity: _____ GPD _____ unit
 11(c) Industry max quantity: _____ Acre
 Industry standard: _____
 11(d) Municipal max quantity: _____ GCD
 Lesser of either 200 GCD or
 $1.10 * (X - Y) * 365 d * (z + t)$
 X - Average of last three years usage in Gallons per Capita per Day (GCD)
 Y - water usage for industries that use over 200,000 gal/yr (GCD)
 Z - Projected population in 20 years
 T - Reasonable projected water use for industries that use over 200,000 gallons per year (GCD)
 11(e) Pond max quantity is _____
 (Net evap + seepage)/12 x pond area + any initial fill
 11(f) Groundwater pit max Q: _____
 Net evap * pit area/12

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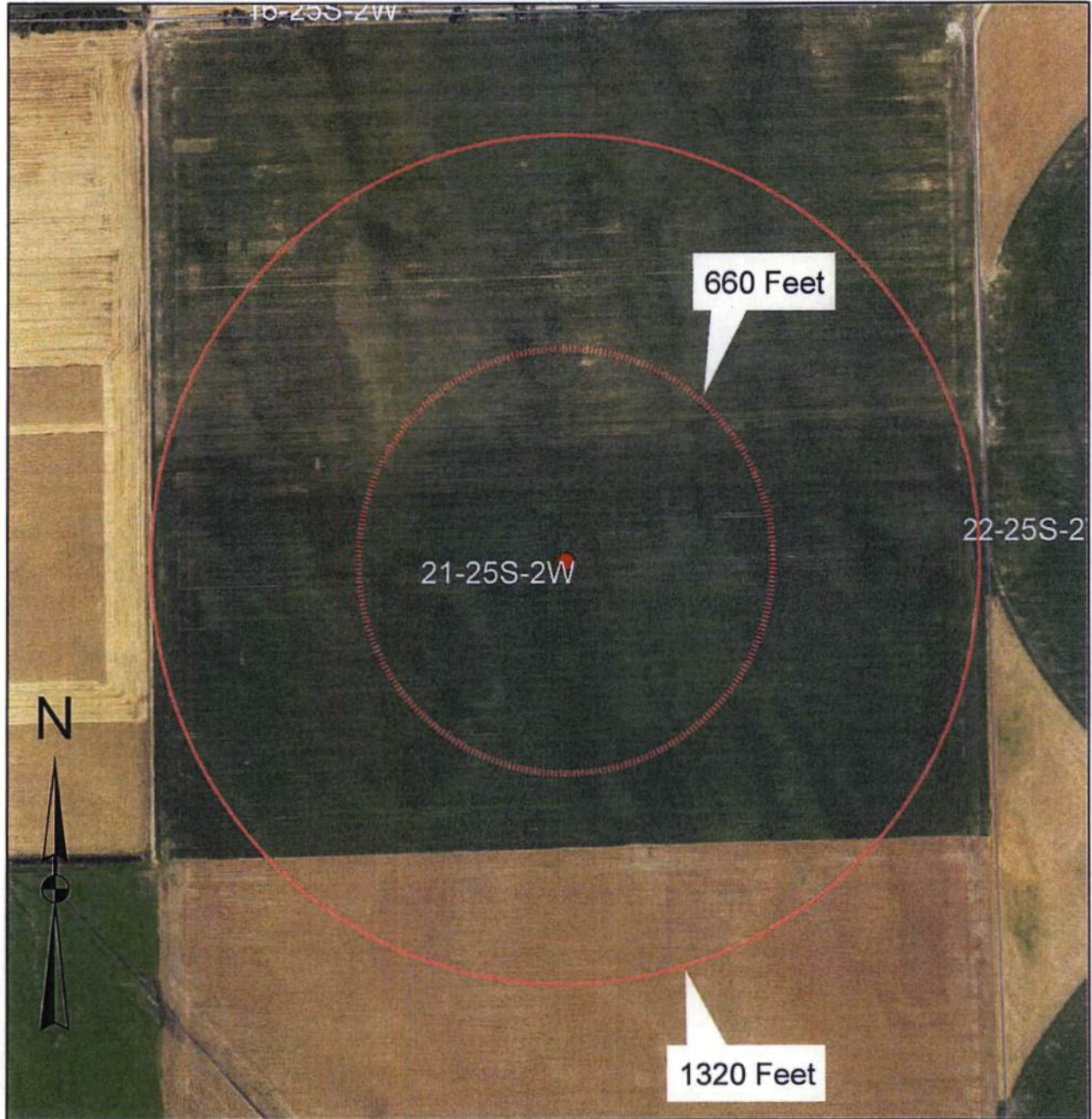
12) Reasonable rate for intended use? Yes No N/A
 13) Depth to water: 4.09 ft bls at observation well: IW35A

14) Date reviewed: May 6, 2019
 15) Reviewed by: T. Boese Title: Manager Deny Other, see comment
 16) District recommendation: Approve Deny Other, see comment

17) Comments and Calculations:

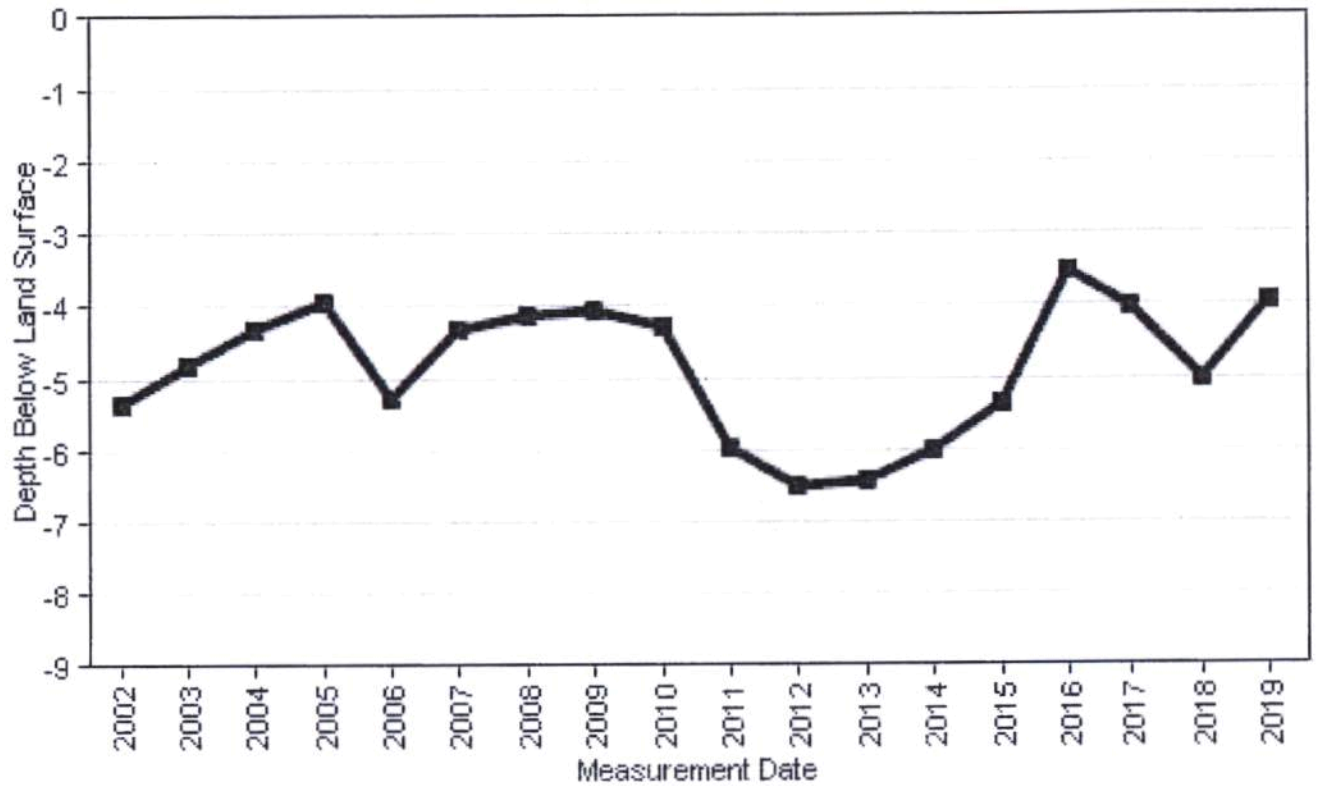
Review completed for a change in PD & PU application by Carolyn Williams Inc. for Irrigation use in Sedgwick County.
 The applicant proposes to change the PD by moving the well 2,637 feet Northeast. The current well was drilled and constructed and the diversion works completed in 2017 and the Notice of Completion filed. Water sample from the current well showed elevated Chloride level of 460 mg/L. Two test well samples at proposed well location showed reduced Chloride levels of 200 and 204 mg/L.
 Application also proposes to modify and increase the place of use from 175 to 185 acres (10 acre additional).
 Water Permit is still in perfection period so base acres = authorized acres: 175 acres; Proposed water to land ratio is 227 AF / 175 acres = 1.23 AF/A.
 There are no known wells within 1/2 mile of the proposed well location, so no nearby well owners were notified.
 Recommend approval, complies with K.A.R. 5-22-1 through 5-22-17.

Equus Beds Groundwater Management District No. 2
 Spacing Evaluation - No. 48677 - Carolyn Williams Inc.
 NESWNE (3455'N & 1410'W) 21-25S-02W, Sedgwick County
 Prepared By: T. Boese Date: 5/6/2019



<ul style="list-style-type: none"> ● Proposed Point of Diversion ⋈ Area of Consideration Boundary ⊙ Monitoring Wells ▲ Points of Diversion District Boundary 	<p>Map Legend</p> <ul style="list-style-type: none"> Major Highway Other Roadway Major Stream Other Water Feature County Boundary City Boundary 	<p>RECEIVED</p> <p>MAY 07 2019</p> <p>Stafford Field Office Division of Water Resources</p>
<p>0.065 0.0325 0 0.065 Miles</p>		<p>Equus Beds Groundwater Management District No. 2 313 Spruce Street, Halstead, KS 67056 316-835-2224, equusbeds@gmd2.org</p>

IW 35A: NW-NW-NE Section 27-25S-2W, Sedgwick County



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Division of Water Resources

JEFF WINTER, PRESIDENT
VIN KISSICK, VICE PRESIDENT
ALAN BURGHART, SECRETARY
MIKE MCGINN, TREASURER
TIM BOESE, MANAGER
THOMAS A. ADRIAN, ATTORNEY



DIRECTORS:
DAVID BOGNER
JOE PAJOR
DALE SCHMIDT
BOB SEILER
DAVID STROBERG

EQUUS BEDS GROUNDWATER MANAGEMENT DISTRICT NO. 2

313 SPRUCE STREET • HALSTEAD, KANSAS 67056-1925 • PHONE (316) 835-2224 • FAX (316) 835-2225 • equusbeds@gmd2.org • www.gmd2.org

May 6, 2019

Carolyn Williams Inc
326 Spruce Street
Halstead, KS 67056

Re: Water Permit No. 48677

Dear Mrs. Williams:

The Equus Beds Groundwater Management District No. 2 made a recommendation to the Division of Water Resources that change application No. 48677 be approved. Pursuant to K.A.R. 5-22-4a, the well described in the application must be equipped with a District approved water flowmeter. The well is located in the Northeast Quarter of the Southwest Quarter of the Northeast Quarter of Section 21, Township 25 South, Range 2 West, Sedgwick County.

The well must be properly equipped with an approved meter within 30 days after the approved well is operational and prior to its operation. If more time is needed to install the meter or modify an existing meter installation, you may request an extension of time. The request must be made to the District before the end of the 30-day period.

Enclosed is a Flow Meter Installation form to be completed and returned to this office after completion of the meter installation or modifications. A copy of the Division of Water Resources' meter installation notification form (Notice and Proof of Completion of Works) may be substituted in place of the District form. Upon receiving the completed form, the District will inspect the installation.

Also enclosed is a copy of water meter and installation specifications. The water meter must meet these specifications and the list of certified water meters provided under K.A.R. 5-1-12, for District approval. The list of certified water meters can be obtained by contacting the District or at following link: <http://agriculture.ks.gov/divisions-programs/dwr/water-appropriation/water-flowmeters>. If you have any questions about the District's metering program or the enclosed material, please contact the District for assistance.

Sincerely,
EQUUS BEDS GROUNDWATER
MANAGEMENT DISTRICT NO. 2

Tim Boese
Manager
TDB/db

Enclosures

Pc: Jeff Lanterman, Division of Water Resources, Stafford

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Division of Water Resources

Servi-Tech Laboratories

1816 E. Wyatt Earp • PO Box 1397 • Dodge City, KS 67801
www.servitechlabs.com

Phone: 620.227.7123 • 800.557.7509 • Fax: 620.227.2047

Lab #: D-2019NL000875 **LABORATORY REPORT** Report Date: 11/26/2018 04:14 pm



Send To: EQUUS BEDS GROUNDWATER
15075 MGT. DISTRICT #2
313 SPRUCE
Bill To: HALSTEAD, KS 67056
43304

Sean H. Jenkins
Sean H. Jenkins
QA Manager

Project ID: Project Title: CAROLYN WILLIAMS INC Sample ID: 48677 TEST WELL (3 PVC) Client Name: CAROLYN WILLIAMS INC. Subject: Monitoring Well Lab Analysis	Date/Time Received: 11/19/2018 09:30 am Name of Submitter: usps Date/Time Sampled: 11/15/2018 03:16 pm Name of Sampler: David Randolph	Location: NW-SE-NE 21-25S-2W Invoice No: 373122 P.O. #: Depth: 33 Flow Rate:
--	---	---

Analysis	Result	Unit	RL	Method	Analysis Date/Time	Tech
NELAP Accredited Tests						
Chloride, Cl	204	mg/L AR	10.0	EPA 300.0	11/20/2018 11:26AM	ABC
Dissolved Sodium, Na	178	mg/L AR	1.0	EPA 200.7	11/26/2018 1:59PM	ABC
Electrical Conductivity, EC @ 25C	1300	µmho/cm AR	0.1	SM 2510 B-1997	11/20/2018	ABC
Non-Accredited Tests						
Total Dissolved Solids (Calc), TDS	832	mg/L	5	Calculation		

NELAP Statement

Laboratory Accreditation: The analytical results included in this report meet all the requirements of the National Environmental Laboratory Accreditation Program (NELAP), unless otherwise noted. The reported results apply only to the sample as it was supplied. This report may not be reproduced, except in full, without permission of Servi-Tech.

Sample Acceptability Criteria

Sample not received 'on ice'.

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NOV 26 2018

Equus Beds GMD #2

Test Basis: AR=As Received

RL = Reporting Limit

Stafford Field Office
Division of Water Resources

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Lab #: D-2019NL000875

LABORATORY REPORT

Report Date: 11/26/2018 04:14 pm

Accreditation Agency

KDHE
TCEQ
OK DEQ

Accreditation Number

E-10150
T104704505-18-9
Lab ID 9707 Cert. # 2018-178

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NOV 26 2018

Equus Beds GMD #2

Test Basis: AR=As Received

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Phone: 620.227.7123

800.557.7509

Fax: 620.227.2047

Lab #: 000649 **LABORATORY ANALYSIS REPORT** Report Date: 11/08/2018 04:58 p
Sample ID: WILLIAMS 4 Client Name: Location: IRRIGATION

AGGRESSIVE INDEX (over 12.0): The Aggressive Index (AI) is a measure of the tendency of water to deteriorate the structure of asbestos-cement pipes. The result indicates that this water is considered "non-aggressive". A water supply can be very corrosive even though the pH is neutral. This occurs in water where there is no hardness or dissolved minerals to coat piping and protect it from the natural corrosiveness of the water.

LANGLIER SATURATION INDEX: A calculation that indicates the calcium carbonate (CaCO₃) saturation of a given water supply. An index value between -0.5 to +0.5, suggests the water is not expected to either form a calcium carbonate scale layer or dissolve an existing scale layer. The water supply may be considered "non-corrosive", but there are other factors that may affect corrosion. These factors include the type of metals used for piping and fixtures, water temperature, flow rate, and others.

Interpretations For Irrigation Use

GENERAL RATING - POOR QUALITY IRRIGATION WATER

SALINITY HAZARD - MEDIUM: Extended use of this irrigation water is considered satisfactory for growth of many plants. Soluble salts have potential to accumulate to levels that may affect growth of moderately salt-sensitive species (e.g., alfalfa, corn, soybeans), may affect young seedlings, or may affect newly planted cuttings. Routine leaching by a degree of over irrigating may be needed to mobilize salts into the lower root zone, but good internal soil drainage is necessary. Test irrigation water and soil regularly to monitor salinity levels.

PERMEABILITY HAZARD: HIGH. The adjusted SAR value suggests this water should not be used for extended irrigation of fine-textured or clayey soils. It should be used with caution on medium-textured and some sandy-textured soils. Surface crusting, reduced water infiltration rates, and excess runoff are typical symptoms of sodium accumulations. Frequent application of a soluble calcium amendment (e.g., gypsum) may be needed, but requires internal soil drainage that permits downward water movement to be effective. Recommend using other soil management strategies to help maintain soil permeability. Test the soil annually for exchangeable sodium (%Na) and the irrigation water frequently for adjusted SAR to monitor sodium accumulations.

BORON HAZARD - VERY LOW: Boron is one of the essential plant nutrients required by plants for healthy growth but it is only needed in very small amounts and can therefore become toxic to plants even at very low concentrations. The boron concentration in this water source is considered safe for most field crops and landscape plants.

CHLORIDE HAZARD FROM SPRINKLER IRRIGATION - HIGH (150 - 350 mg/L): Chloride contained in water droplets that dry on leaf surfaces is likely to cause foliar injury (burning, spotting, etc.) when applied to moderately sensitive crops (e.g. soybeans). Foliar damage may be expected with chloride sensitive plant types (e.g. certain tree species, some ornamentals, etc.). Chloride injury problems may be more common during high temperature and low humidity conditions. Irrigate at night or during cool weather conditions, if possible. Increasing droplet size or applying water below the crop canopy can help minimize problems.

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Phone: 620.227.7123
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Lab #: 000649 **LABORATORY ANALYSIS REPORT** Report Date: 11/08/2018 04:58 p

Send To: 485	JACOB FARMS RYAN SPEER / STEVE JACOB 9757 N 151ST W SEDGWICK, KS 67135	 Sean H. Jenkins QA Manager
------------------------	---	--

Client Name:		Received:	11/02/2018 08:30 am
Sample ID:	WILLIAMS 4	Submitted By:	usps
Location:	IRRIGATION	Invoice No:	373005
Sampled:	10/31/2018 04:00 pm	P.O. #:	
Sampled By:	RON		

Analysis	Result	Unit	lbs /	
			Acre Inch	meq / L
Nitrate Nitrogen, NO3-N	2.26	mg/L	0.5	0.2
Chloride, Cl	200	mg/L	45.3	5.6
Sulfate, SO4	110	mg/L	24.9	2.3
Sulfate-Sulfur, SO4-S	38	mg/L	8.6	2.4
Bicarbonate, HCO3	380	mg/L	86.1	6.2
Carbonate, CO3	<10	mg/L	<2.3	<0.3
Total Alkalinity, CaCO3	310	mg/L	70.3	6.2
Hardness (CaCO3)	330	mg/L		
Hardness (CaCO3)	19	grains/gal		
Total Calcium, Ca	98	mg/L	22.2	4.9
Total Magnesium, Mg	21	mg/L	4.8	1.7
Total Potassium, K	4	mg/L	0.9	0.1
Total Sodium, Na	151	mg/L	34.2	6.6
Sodium Adsorption Ratio, SAR	3.6	ratio		
Adjusted SAR, SARa	8.5	ratio		
Total Boron, B	0.26	mg/L	0.1	
Total Iron, Fe	0.33	mg/L	0.1	
Total Manganese, Mn	0.707	mg/L	0.2	
Electrical Conductivity, EC @ 25C	1400	µmho/cm		
Total Dissolved Solids (Calc), TDS	896	mg/L		
pH, at 19.7°C	7.3	unit		
Corrosion Indices				
Langelier Index, LI	0.5			
Aggressive Index, AI	12.3			

Interpretations for Corrosive Indices

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