In The Matter Of:

Hays, Kansas & Russell, KS v Edwards County, Kansas & Kansas Water Transfer Act

> Formal Hearing Vol. 3 July 21, 2023

Court Reporting Service, Inc. 324 W. Central, Suite B Andover, KS 67002

Original File 07.21.23 Water Hearing 3.txt Min-U-Script® with Word Index **This Page Intentionally Left Blank**

| Lui | valus County, Kansas & Kansas Water Hansier Act | | 5 July 21, 2023 |
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| 1 | BEFORE THE OFFICE OF ADMINISTRATIVE HEARINGS STATE OF KANSAS | 1 | INDEX OF EXAMINATION |
| 2 | DIATE OF RANDAD | 2 | |
| 3 | | 3 | CITY OF RUSSELL WITNESSES |
| 4 | IN THE MATTER OF:) | 4 | JON QUINDAY |
| 5 | THE APPLICATION OF THE) | 5 | DIRECT CROSS REDIRECT RECROSS |
| 6 | CITIES OF HAYS, KANSAS) AND RUSSELL, KANSAS) OAH No. 23AG0003 AG | 6 | By Mr. Cole |
| 7 | FOR APPROVAL TO) TRANSFER WATER FROM) | 7 | by Mr. Traster558597 |
| 8 | EDWARDS COUNTY, KANSAS) PURSUANT TO THE KANSAS) | 8 | By Mr. Lee605 |
| 9 | WATER TRANSFER ACT) | 9 | |
| 10 | | 10 | |
| 11 | | 11 | CITY OF HAYS WITNESSES |
| 12 | FORMAL HEARING | 12 | JEFF CRISPIN |
| 13 | VOLUME III | 13 | DIRECT CROSS REDIRECT RECROSS |
| 14 | | 14 | by Mr. Traster606 |
| 15 | This matter came on for Formal Hearing | 15 | - by Mr. Lee658 |
| 16 | before Matthew A. Spurgin, Presiding Officer, at | 16 | |
| 17 | Hyatt Regency Wichita, Riverview Ballroom, 400 | 17 | |
| 18 | West Waterman, Wichita, Sedgwick County, Kansas, | 18 | PAUL A. MCCORMICK |
| 19 | commencing at 9:05 a.m. on the 21st day of | 19 | DIRECT CROSS REDIRECT RECROSS |
| 20 | July, 2023. | 20 | by Mr. Buller661 |
| 20 | oury, 2023. | 20 | by Mr. Lee |
| 22 | | 22 | Бу мі. цее |
| 22 | | 22 | |
| 23 24 | | 23 | |
| 24 25 | | 25 | |
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| 1 | Page 550 Appearances | 1 | Page 552 |
| 1 | APPEARANCES | 1 | DANIEL WAYNE CLEMENT |
| | • | | DANIEL WAYNE CLEMENT |
| 2 | A P P E A R A N C E S City of Hays, Kansas appears by its | 2 | DANIEL WAYNE CLEMENT DIRECT CROSS REDIRECT RECROSS |
| 2 3 | A P P E A R A N C E S City of Hays, Kansas appears by its attorneys, David M. Traster, Foulston Siefkin LLP, | 2 3 | DANIEL WAYNE CLEMENT DIRECT CROSS REDIRECT RECROSS by Mr. Traster721 |
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| · | 21, 2023 | 1 | dwards County, Kansas & Kansas Water Transfer Ac |
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| | Page 553 | | Page 555 |
| 1 | CITIES' EXHIBITS | 1 | there as your Exhibit WP01695 through |
| 2 | EXHIBIT FIRST | 2 | WP01851. |
| 3 | NUMBER REFERENCED | 3 | MR. LEE: Okay, yes. Same thing |
| 4 | Number 1765651 | 4 | SO |
| 5 | Number 2625621 | 5 | PRESIDING OFFICER: Is that correct? |
| 6 | Number 2654648 | 6 | MR. LEE: Yeah, I believe so. |
| 7 | Number 2655642 | 7 | PRESIDING OFFICER: Okay. |
| 8 | Number 2666696 | 8 | MR. LEE: Yeah. |
| 9 | Number 2681640 | 9 | PRESIDING OFFICER: So it's correct |
| 10 | Number 2827672 | 10 | that that's the page numbering for that |
| 11 | Number 2828664 | 11 | exhibit, and then, yes, if you can just |
| 12 | | 12 | upload an electronic copy of that exhibit. |
| 13 | | 13 | So at this point, that is the only one of |
| L4 | | 14 | your exhibits that we have officially |
| 15 | | 15 | admitted to the record. |
| 16 | | 16 | MR. LEE: Okay. |
| 17 | | 17 | PRESIDING OFFICER: Just so we're |
| 18 | | 18 | aware of that and we can at some point here |
| 19 | | 19 | next week kind of go through and make sure |
| 20 | | 20 | that everybody has the same record, noting |
| 21 | | 21 | what's been admitted and what's not so you |
| 22 | | 22 | don't mistakenly think something was |
| 23 | | 23 | admitted and it wasn't because of the way |
| 24 | | 24 | we're going about this. |
| 25 | | 25 | MR. LEE: Sure. Well, we definitely |
| | Page 554 | | Page 556 |
| 1 | PRESIDING OFFICER: We'll go ahead | 1 | will check on that, and I appreciate Your |
| 2 | and go on the record here and get things | 2 | Honor's approach to it. We will upload |
| 3 | started here for Friday, July 21st for our | 3 | this over the weekend, an electronic |
| 4 | hearing. | 4 | version. |
| 5 | Now, Mr. Lee, you were just addressing | 5 | PRESIDING OFFICER: Okay thank you. |
| 6 | the deposition, and I want to apologize | 6 | MR. TRASTER: Your Honor, from my |
| 7 | because I indicated that I didn't think you | 7 | perspective, I didn't intend that only the |
| 8 | had listed that on your exhibit list. Now, | 8 | Cities' exhibits would be admitted; I |
| 9 | the list I was looking at, whatever for | 9 | assumed that we were admitting all of the |
| 10 | whatever reason, cut off and I didn't get | 10 | exhibits provisionally. But that's |
| 11 | those last couple pages of your exhibits. | 11 | PRESIDING OFFICER: Okay. |
| 12 | I had your exhibits as being up through | 12 | MR. TRASTER: Whatever, I'm not |
| 13 | page 532, and then 533 started the next | 13 | PRESIDING OFFICER: Mr. Lee, would |
| 14 | page, so I wanted to clarify, then, I think | 14 | you |
| 15 | I made myself a little sticky note on that | 15 | MR. LEE: I won't make a strenuous |
| 16 | somewhere, if I can find it. So you'd | 16 | objection to that, Your Honor. |
| 17 | indicated that being an exhibit number | 17 | PRESIDING OFFICER: Okay. So with |
| 18 | starting at 2091. | 18 | that, then, we will go ahead and all of |
| L9 | MR. LEE: That's the that's the | 19 | those that were on your list, then, will |
| 20 | figure that we wrote or the number we wrote | 20 | be |
| 21 | down, Your Honor. That would be after | 21 | MR. LEE: Thank you. |
| 22 | PRESIDING OFFICER: When I went back | 22 | MR. TRASTER: Admitted for whatever |
| 23 | through your witness list or your | 23 | purpose. |
| | exhibit list last night, it looked like | 24 | PRESIDING OFFICER: Uh-huh. |
| 24 | | | |

| Edv | vards County, Kansas & Kansas Water Transfer Act | | | July 21, 2023 |
|----------|--|----------|---|---|
| | Page 557 | | | Page 559 |
| 1 | appreciate appreciated Mr. Lee's | 1 | Α | Yes. |
| 2 | willingness to do that and I will | 2 | Q | that are purchased from Kansas |
| 3 | reciprocate. | 3 | A | Yes. |
| 4 | MR. LEE: Thank you, Mr. Traster. | 4 | Q | by PureField? How much money is that? |
| 5 | PRESIDING OFFICER: Thank you, | 5 | Α | Based on current prices, about \$176 million |
| 6 | Mr. Traster. I just want to make sure the | 6 | | annually. |
| 7 | record's clear on that. When we were on | 7 | Q | So PureField is buying grain from Kansas farmers |
| 8 | the record on the first day we had | 8 | | and at currently \$176 million |
| 9 | addressed your exhibits, but we hadn't | 9 | А | Yes. |
| 10 | mentioned Mr. Lee's exhibits there for | 10 | Q | a year? And if they double their production, |
| 11 | Water PACK, and we just need | 11 | | what do you think |
| 12 | MR. TRASTER: And I intended it to | 12 | А | If they double their production, I don't know |
| 13 | be to include all exhibits so that we | 13 | | for a fact, but I could assume that they would |
| 14 | didn't have to do | 14 | | double their purchase. |
| 15 | PRESIDING OFFICER: Okay. | | Q | And they can't double their production unless |
| 16 | MR. TRASTER: all the foundation | 16 | | they've got water? |
| 17 | and admission and so that's very | | Α | Correct. |
| 18 | good, thank you. | 18 | - | Thank you, no further questions. |
| 19 | PRESIDING OFFICER: All right. | 19 | | PRESIDING OFFICER: All right. I |
| 20 | That's fine. So let's see, I guess | 20 | | guess, Mr. Lee, we'll move to you. |
| 21 | yesterday when we concluded for the day we were finishing up with Mr. Cole's questions | 21 22 | | And I guess before we do that, we are getting a little bit of feedback on the |
| 22 23 | for Mr. Quinday. And then I guess, | 23 | | microphone. Can I just ask everybody at |
| 24 | Mr. Traster, Mr. Buller, did you have | 24 | | the counsel table to make sure that your |
| 25 | questions for Mr. Quinday? Mr. Quinday, I | 25 | | microphones are turned off and so we just |
| | questions for Mill Quindug . Mill Quindug, I | | | merophones are tarned on and so we just |
| | Page 558 | | | Page 560 |
| 1 | guess we'll have you come back up to the | 1 | | have the podium and the witness stand, and |
| 2 | stand. We've already sworn you in, so we | 2 | | then if we still have that, we'll see if we |
| 3 | don't need to go through that again. | 3 | | can get one of the AV people to come in and |
| 4 | | 4 | | make some adjustment for us. It seems to |
| 5 | JON QUINDAY, | 5 | | get a little better when I shut mine off, |
| 6 | having previously sworn or affirmed, was | 6 | | but I still hear a little bit coming |
| 7 | examined and testified as follows: | 7 | | through. So there's something causing a |
| 8 | | 8 | | little feedback somewhere. |
| 9 | CROSS-EXAMINATION | 9 | | But go ahead, Mr. Lee, and you can go |
| | BY MR. TRASTER: | 10 | | ahead and step up to the podium there. |
| 11 | | 11 | | MR. LEE: Thank you, Your Honor. |
| 12 13 | lawyer says he has two questions, that's, you know, not true. | 12 13 | | CROSS-EXAMINATION |
| 14 | Mr. Quinday, yesterday, you testified to a | 14 | | Y MR. LEE: |
| 15 | number of, I guess I have three, a number of | 15 | | Mr. Quinday, good morning. |
| 16 | numbers, you know, this much money and this many | | A | Good morning. |
| 17 | bushels and this and I wasn't just for the | | Q | I think you probably at this point know |
| 18 | record want to make it clear that when you were | 18 | - | everybody's names, but I'm Charles Lee with Lee |
| 19 | talking about those numbers for PureField's | 19 | | Schwalb, LLC, we're our firm represents Water |
| 20 | income and employment and payroll not the | 20 | | PACK and Edwards County in this proceeding. I |
| 21 | employment but payroll, those are annual | 21 | | appreciated listening to your testimony |
| 22 | numbers | 22 | | yesterday, and I would like to have a |
| 23 | A Yes. | 23 | | conversation with you about some of those |
| 24 | | 24 | | things. |
| 25 | were 2300 no, 23 million bushels of grain | 25 | | Just in no particular order, the question |
| 1 | | 1 | | |

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| Page 561 | | Page 563 |
| that you were just asked by Mr. Traster, | 1 A | That's the estimate, yes. |
| obviously that's a significant amount of sales | 2 Q | Is that an amount that Russell can pay? |
| and revenue from a company in Russell, and I | 3 A | That's an amount we'd have to finance or find |
| understand that those purchases purchases, if | 4 | funding for. |
| I can say that, are from Kansas farmers, | 5 Q | And if you finance it, how would you do that? |
| correct? | 6 A | Either through the state revolving loan fund or |
| Correct. | 7 | through the EPA or other federal programs. |
| That would be true whether the company was | 8 Q | So it sounds like it would be fair to say that |
| located in Russell or someplace else in Kansas, | 9 | you don't know whether it can be financed if you |
| would it not? | 10 | have to pay 18 percent, fair? |
| That I don't know. | 11 A | Yeah. |
| But presumably? | 12 Q | Okay. Would one of the options be if you go the |
| I don't know. I just know what I've spoken with | 13 | route of having to pay X amount for your share, |
| the CEO and vice-president about. | 14 | Russell's share of the project cost, to increase |
| Okay. Fair enough. In terms of the | 15 | rates for ratepayers? |
| Russell's interest in the R9 Ranch project, | 16 A | That wouldn't be the sole reason to. If there |
| Mr. Quinday, how much did Russell pay for its | 17 | was a rate increase, that wouldn't be the sole |
| interest in that project? | 18 | reason. We regularly look at our operating |
| Off the top of my head, I don't know. | 19 | costs for the utility and project out for ten |
| Do you know what percentage it is it owns? | 20 | years our capital needs and base our rates on a |
| 18 percent. | 21 | cost-of-service study which allocates a certain |
| And would there be records somewhere that show | 22 | portion of those costs to different customer |
| what the City paid for that? | 23 | classes. So it's not as simple as we need X |
| Yes. | 24 | amount of dollars so we're going to raise rates |
| Who would have those? | 25 | this much, we have to |
| | | |
| Page 562 | | Page 564 |
| City clerk, finance director. | 1 Q | Well, I got that. I think what I hear you |
| Then if there is a 15 or 18 percent interest | 2 | saying is that one of the options the City would |
| in the project, is that Russell's percentage of | 3 | consider as part of a financing package is a |
| the capital cost that it will have to pay? | 4 | rate increase; is that right? |
| That'll still be negotiated. | 5 A | That's an option. |
| It's unknown at this point? | 6 Q | And if you were to I take it a bond issue |
| We still have options of that the Cities will | 7 | might be one of the financing options; is that |
| have to negotiate that, how that arrangement | 8 | right? |
| will be made. | 9 A | That's an option. |
| Well, tell me about the options. | 10 Q | |
| One of the options is to purchase or pay for | 11 | ahead of myself, you have experience with bond |
| 18 percent of the development cost, or the other | 12 | issues, do you not? |
| would be to be a preferred customer. | 13 A | Yes. |
| And what is entailed in being a preferred | 14 Q | And based on that experience, would it be the |
| customer? | 15 | case that there would be expected to be a |
| The details of that are being worked out, but | 16 | covenant about rate what ratepayers would |
| paying no more than the cost to produce the | 17 | pay? |
| water. | 18 A | |
| And would that be in perpetuity or until some | 19 | that the rates are sufficient to meet the debt |
| percentage of the development cost was paid? | 20 | service and operating maintenance. A general |
| That's to be determined when that's negotiated. | 21 | obligation bond does not have that requirement. |
| 8 | | Obey them by the Limen yes an conversent |
| So let's look at option one, 18 percent of what, | 22 Q | Okay, thank you. So I know you are conversant |
| ÷ | 22 Q 23 | with the Water Transfer Act application, right? |
| So let's look at option one, 18 percent of what, | | with the Water Transfer Act application, right? |
| | Page 561 that you were just asked by Mr. Traster, obviously that's a significant amount of sales and revenue from a company in Russell, and I understand that those purchases purchases, if I can say that, are from Kansas farmers, correct? Correct. That would be true whether the company was located in Russell or someplace else in Kansas, would it not? That I don't know. But presumably? I don't know. I just know what I've spoken with the CEO and vice-president about. Okay. Fair enough. In terms of the Russell's interest in the R9 Ranch project, Mr. Quinday, how much did Russell pay for its interest in that project? Off the top of my head, I don't know. Do you know what percentage it is it owns? 18 percent. And would there be records somewhere that show what the City paid for that? Yes. Who would have those? Page 562 City clerk, finance director. Then if there is a 15 or 18 percent interest in the project, is that Russell's percentage of the capital cost that it will have to pay? That'll still be negotiated. It's unknown at this point? We still have options of that the Cities will have to negotiate that, how that arrangement will be made. Well, tell me about the options. One of the options is to purchase or pay for 18 percent of the development cost, or the other would be to be a preferred customer. And what is entailed in being a preferred customer? The details of that are being worked out, but paying nomer than the cost to produce the water. And would that be in perpetuity or until some percentage of the development cost was paid? | Page 561that you were just asked by Mr. Traster, obviously that's a significant amount of sales and revenue from a company in Russell, and I understand that those purchases purchases, if I can say that, are from Kansas farmers, correct?5 Q Correct.Correct.7That would be true whether the company was located in Russell or someplace else in Kansas, would it not?8 Q located in Russell or someplace else in Kansas, would it not?That would be true whether the company was located in Russell or someplace else in Kansas, would it not?10That I don't know.11 A But presumably?12 Q I don't know.I don't know.13the CEO and vice-president about.4Okay. Fair enough. In terms of the Russell's interest in the R9 Ranch project,16Mr. Quinday, how much did Russell pay for its interest in that project?17Do you know what percentage it is it owns?20Do you know what percentage it is it owns?21And would have those?25Ves.24Who would have those?25Ves.24Who would have those?3the capital cost that it will have to pay? That'll still be negotiated.5 A Q Q Q We still have options of that the Cities will have to negotiate that, how that arrangement will be made.9 A Q Q Q Q We still have options is to purchase or pay for I S Percent of the development cost, or the other would be to be a preferred customer.13 Q Q Q Q Q QThe details of that are being worked out, but paying no more |

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| | Page 565 | | | Page 567 |
| 1 | a is that incorrect? | 1 | | going to happen in the next three years or |
| 2 A | I don't know what you mean by well versed, I've | 2 | | 13 years. |
| | read it. | | | • |
| 3 | | | Q | Well, Russell does not have its own opinion from |
| 4 Q | Well, let's talk about it, at least, a bit. You | 4 | | an expert about projected population growth, |
| 5 | understand and from reading it and probably | 5 | | does it? |
| 6 | from listening to the proceedings up to now that | | | I believe in our 2014 Bartlett & West study |
| 7 | there is a part of the WTA application that | 7 | | there may be something in there, but I'm not |
| 8 | talks about population growth, are you aware of | 8 | | positive. |
| 9 | that? | | Q | But at least as part of what has been presented |
| 10 A | | 10 | | to this tribunal, there is a population growth |
| 11 Q | And you heard the discussion that I would have | 11 | | estimate for Hays but not for Russell; is that |
| 12 | had with Mr. Dougherty about the 2 percent | 12 | | right? |
| 13 A | Yes. | 13 | А | If the Bartlett & West study is an exhibit, then |
| 14 Q | Okay. | 14 | | I would say it's |
| 15 A | Yeah. | 15 | Q | Let's look at this is taken from Haase's |
| 16 Q | Are we all agreed that the 2 percent projection | 16 | | Ms. Haase's direct testimony at page 3, and she |
| 17 | would be incorrect both for Hays and for | 17 | | is asked, what is the purpose of your direct |
| 18 | Russell? | 18 | | testimony? |
| 19 A | Depending on which context you're looking at. | 19 | | And she responds, My opinions are set forth |
| 20 | In the application or the document you're | 20 | | in detail in my expert report, but in general my |
| 21 | talking about, that was a number set by the | 21 | | testimony relates to Hays population projection. |
| 22 | chief engineer as the process. If you're | 22 | | And the question, In summary, what did you |
| 23 | looking as far as, say, a planning document for | 23 | | conclude? |
| 24 | the entire city that we use for everything, our | 24 | | I conclude within a reasonable degree of |
| 25 | comprehensive plan has a .25 percent annual | 25 | | professional certainty that an estimated growth |
| 20 | | | | protossional cortainty that an ostimated growth |
| | Page 566 | | | Page 568 |
| 1 | growth rate. | 1 | | rate of 1 percent annually over the next 10 to |
| 2 Q | Let's look at Quinday 1, if we could, Myndee. | 2 | | 20 years is likely for the City of Hays. |
| 3 | I don't want to be unclear about this. | 3 | | So my question simply, that does not |
| 4 | This is, as you know, taken from the WTA | 4 | | include Russell, correct? |
| 5 | application, and one of the questions that we've | _ | | No. |
| 6 | talked about that the regulations require that | | Q | And you don't have a document that you're going |
| 7 | the application provide population population | 7 | - | to present to this tribunal that projects growth |
| | projections for the public water supply system. | 8 | | for Russell aside from the WTA application; is |
| 8 9 | And there is a table there, table 6, as you can | 0 9 | | that right? |
| | - | | | I'd have to go through the records, all the |
| 10 | see. Uh-huh. | | Α | |
| 11 A | | 11 | | exhibits. |
| 12 Q | And it has numbers for 2010 and through 20 | | Q | You're not aware of it, at least? |
| | 2026 and it applains that halans that is I | | | Diaht |
| 13 | 2036, and it explains that, below that, as I | | A | Right. |
| 14 | think you can see, that it says, The 2010 | 14 | Q | Okay. If we can look at the next exhibit, |
| 14 15 | think you can see, that it says, The 2010 population and the 2017 population estimates are | 14 15 | Q | Okay. If we can look at the next exhibit, Myndee. |
| 14 15 16 | think you can see, that it says, The 2010 population and the 2017 population estimates are from the U.S. Census. Population projections | 14 15 16 | Q | Okay. If we can look at the next exhibit, Myndee. This is actually taken we retained a |
| 14 15 16 17 | think you can see, that it says, The 2010 population and the 2017 population estimates are from the U.S. Census. Population projections for 2026 and 2036 are based on a 2 percent | 14 15 16 17 | Q | Okay. If we can look at the next exhibit, Myndee. This is actually taken we retained a firm called Harvey Economics to do a population |
| 14 15 16 17 18 | think you can see, that it says, The 2010 population and the 2017 population estimates are from the U.S. Census. Population projections for 2026 and 2036 are based on a 2 percent annual population growth as approved by the | 14 15 16 17 18 | Q | Okay. If we can look at the next exhibit, Myndee. This is actually taken we retained a firm called Harvey Economics to do a population growth analysis, and you may have seen this, but |
| 14 15 16 17 18 19 | think you can see, that it says, The 2010 population and the 2017 population estimates are from the U.S. Census. Population projections for 2026 and 2036 are based on a 2 percent annual population growth as approved by the chief engineer. So my question, I think, is | 14 15 16 17 18 19 | Q | Okay. If we can look at the next exhibit, Myndee. This is actually taken we retained a firm called Harvey Economics to do a population growth analysis, and you may have seen this, but this is taken from their report at page 3-3, and |
| 14 15 16 17 18 19 20 | think you can see, that it says, The 2010 population and the 2017 population estimates are from the U.S. Census. Population projections for 2026 and 2036 are based on a 2 percent annual population growth as approved by the chief engineer. So my question, I think, is fairly simple, you don't expect Hays or Russell | 14 15 16 17 18 19 20 | Q | Okay. If we can look at the next exhibit, Myndee. This is actually taken we retained a firm called Harvey Economics to do a population growth analysis, and you may have seen this, but this is taken from their report at page 3-3, and it shows first of all, in the column in the |
| 14 15 16 17 18 19 20 21 | think you can see, that it says, The 2010 population and the 2017 population estimates are from the U.S. Census. Population projections for 2026 and 2036 are based on a 2 percent annual population growth as approved by the chief engineer. So my question, I think, is fairly simple, you don't expect Hays or Russell but particularly Russell to grow by 2 percent | 14 15 16 17 18 19 20 21 | Q | Okay. If we can look at the next exhibit, Myndee. This is actually taken we retained a firm called Harvey Economics to do a population growth analysis, and you may have seen this, but this is taken from their report at page 3-3, and it shows first of all, in the column in the middle under the City of Russell, it shows |
| 14 15 16 17 18 19 20 | think you can see, that it says, The 2010 population and the 2017 population estimates are from the U.S. Census. Population projections for 2026 and 2036 are based on a 2 percent annual population growth as approved by the chief engineer. So my question, I think, is fairly simple, you don't expect Hays or Russell but particularly Russell to grow by 2 percent over those years, do you? | 14 15 16 17 18 19 20 | Q | Okay. If we can look at the next exhibit, Myndee. This is actually taken we retained a firm called Harvey Economics to do a population growth analysis, and you may have seen this, but this is taken from their report at page 3-3, and it shows first of all, in the column in the middle under the City of Russell, it shows population population amounts for Russell for |
| 14 15 16 17 18 19 20 21 22 23 A | think you can see, that it says, The 2010 population and the 2017 population estimates are from the U.S. Census. Population projections for 2026 and 2036 are based on a 2 percent annual population growth as approved by the chief engineer. So my question, I think, is fairly simple, you don't expect Hays or Russell but particularly Russell to grow by 2 percent over those years, do you? In '26 and '36, I couldn't project what we're | 14 15 16 17 18 19 20 21 22 23 | Q | Okay. If we can look at the next exhibit, Myndee. This is actually taken we retained a firm called Harvey Economics to do a population growth analysis, and you may have seen this, but this is taken from their report at page 3-3, and it shows first of all, in the column in the middle under the City of Russell, it shows population population amounts for Russell for 1980, '90, 2000, 2010, and 2020. So from |
| 14 15 16 17 18 19 20 21 22 | think you can see, that it says, The 2010 population and the 2017 population estimates are from the U.S. Census. Population projections for 2026 and 2036 are based on a 2 percent annual population growth as approved by the chief engineer. So my question, I think, is fairly simple, you don't expect Hays or Russell but particularly Russell to grow by 2 percent over those years, do you? In '26 and '36, I couldn't project what we're going to. As I said yesterday, I'm seeing a | 14 15 16 17 18 19 20 21 22 | Q | Okay. If we can look at the next exhibit, Myndee. This is actually taken we retained a firm called Harvey Economics to do a population growth analysis, and you may have seen this, but this is taken from their report at page 3-3, and it shows first of all, in the column in the middle under the City of Russell, it shows population population amounts for Russell for 1980, '90, 2000, 2010, and 2020. So from looking at that, does that appear to be |
| 14 15 16 17 18 19 20 21 22 23 A | think you can see, that it says, The 2010 population and the 2017 population estimates are from the U.S. Census. Population projections for 2026 and 2036 are based on a 2 percent annual population growth as approved by the chief engineer. So my question, I think, is fairly simple, you don't expect Hays or Russell but particularly Russell to grow by 2 percent over those years, do you? In '26 and '36, I couldn't project what we're | 14 15 16 17 18 19 20 21 22 23 | Q | Okay. If we can look at the next exhibit, Myndee. This is actually taken we retained a firm called Harvey Economics to do a population growth analysis, and you may have seen this, but this is taken from their report at page 3-3, and it shows first of all, in the column in the middle under the City of Russell, it shows population population amounts for Russell for 1980, '90, 2000, 2010, and 2020. So from |

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| | | Page 569 | | | Page 571 |
| 1 | A | Can you zoom in, please. | 1 | | knowledge, that is not a study that has been |
| 2 | Q | You bet. I say that like I'm controlling | 2 | | provided as part of the application on behalf of |
| 3 | | things. | 3 | | the City of Russell, correct? |
| 4 | Α | Yeah, yeah. And out just a little bit so I | 4 | Α | I'm not aware. |
| 5 | | can | 5 | Q | Okay. So in terms of water usage just on a |
| 6 | | MS. LEE: Oh, sorry. | 6 | Ċ | current basis, I think it would be true, at |
| 7 | B | Y MR. LEE: | 7 | | least from the things I've seen and the |
| 8 | | Is that better? | 8 | | testimony I've heard, that by and large the City |
| 9 | - | Yes, thank you. | 9 | | uses about 1,000 acre-feet a year; is that |
| 10 | | Okay. So 1980, for example, was 5,427 and so | 10 | | right? |
| 11 | × | on. Does that seem right? | 11 | Α | On average use 1,000 acre-feet a year, yeah. |
| | A | I'd have to look at the census, but I have no | 12 | | Okay. Let's look at Quinday 6. This is |
| 13 | | reason to say it's not. | 13 | × | MR. TRASTER: I didn't hear the |
| | 0 | Okay. And would it be true that the population | 14 | | exhibit number, sorry. |
| 15 | Q | of Russell over that period of time since 1980 | 15 | | MR. LEE: This is taken, |
| 16 | | has been declining through 2020? | 16 | | Mr. Traster, from the Hamilton rebuttal |
| 17 | Δ | According to by that chart it looks that way. | 17 | | |
| 18 | | And you wouldn't dispute that, I guess? | 18 | | report. MR. TRASTER: Okay. I need to kind |
| 19 | | If those are the census numbers, no. | 19 | | of know where we are with exhibits so thank |
| 20 | | Okay. So another part of the WTA application, | 20 | | you very much for that. |
| 20 21 | Q | Mr. Quinday, that is incomplete, it appears, is | 20 | | MR. LEE: Certainly. |
| 21 22 | | that there is not any part that is shows what | 21 | D | Y MR. LEE: |
| | | | | | |
| 23 | | the projected water needs are going forward. Do | 23 | Q | This is, I'm sure I'm repeating myself, but this |
| 24 | | you agree with that? I'd have to look at the document. | 24 | | is taken from Mr. Hamilton's rebuttal report. |
| 25 | A | I d have to look at the document. | 25 | | Mr. Hamilton, I think you know, is an economist |
| | | Page 570 | | | Page 572 |
| 1 | Q | Well, let's look at the next exhibit, Myndee. | 1 | | that's been retained, I think jointly by the |
| 2 | | This is what's being asked in the | 2 | | Cities but at least by the City of Hays. |
| 3 | | application, that the applicant provide the | 3 | Α | Okay. |
| 4 | | projected water needs of the applicant and of | 4 | Q | You're aware of that? |
| 5 | | any other entities to be supplied water by the | 5 | Α | Yes. |
| 6 | | applicant and the basis for those projections, | 6 | Q | Okay. And he says, and I'm starting not with |
| 7 | | that is not something that the City of Russell | 7 | | the truncated sentence but after that where it |
| 8 | | provided; is that right? | 8 | | says, Specifically, my report considers annual |
| 9 | Α | I'm not sure if it's in the application, but we | 9 | | supply of 1,648 acre-feet for Russell absent |
| 10 | | have records or documents that do project our | 10 | | drought, 1,152 acre-feet under moderate drought, |
| 11 | | water needs. | 11 | | and 789 acre-feet under exceptional drought. |
| 12 | Q | Well, we'll talk a bit more about that | 12 | | Is is that information, are those numbers |
| 13 | - | Okay. | 13 | | correct? |
| 14 | | as we go forward, but are you aware, let me | 14 | Α | The amount of supply that we have? |
| 15 | ` | put it that way, of any document that's part of | 15 | | Yes. And can you see that adequately because |
| 16 | | the application that projects the future water | 16 | ` | I'm sure we can make it |
| 17 | | needs for the City of Russell? | 17 | Α | Yeah, I'm just trying to the amount of supply |
| T / | A | No. | 18 | | that we have, we have a lot of water rights but |
| | | And, similarly, if we could look at the next | 19 | | the actual what's available to us, usable is |
| 18 | | | | | 881 acre-feet from Big Creek and then 1776 |
| 18 19 | | - | 20 | | OOT ALLE-LEEL IT VIII DIV VIEEK AINT THEIT T770 |
| 18 19 20 | | page or next slide, this is another question | 20 21 | | - |
| 18 19 20 21 | | page or next slide, this is another question that's part of the application, which I think | 21 | | from I'm sorry, 881 from the wellfield in |
| 18 19 20 21 22 | | page or next slide, this is another question that's part of the application, which I think you've seen, that to be complete the application | 21 22 | 0 | from I'm sorry, 881 from the wellfield in Pfeifer and 1767 from Big Creek surface rights. |
| 18 19 20 21 22 23 | | page or next slide, this is another question that's part of the application, which I think you've seen, that to be complete the application needs to include the projected per capita per | 21 22 23 | Q | from I'm sorry, 881 from the wellfield in Pfeifer and 1767 from Big Creek surface rights. Okay. So by those numbers, which would be in |
| 18 19 20 21 22 | | page or next slide, this is another question that's part of the application, which I think you've seen, that to be complete the application | 21 22 | Q | from I'm sorry, 881 from the wellfield in Pfeifer and 1767 from Big Creek surface rights. |

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| | Page 573 | | | Page 575 |
| 1 | would be appropriate. Is that fair? | 1 | Α | No. |
| 2 A | | | Q | Or more water than the City needs presently? |
| 3 | dependable. | | Ă | No, we would take quite a bit from it. |
| 4 (| | | Q | Quite a bit doesn't mean all of it? |
| 5 | is in the first instance what is normally | | Ă | You mean all 4800 acre-feet? |
| 6 | available, in the second what's available under | - | Q | Yes. |
| 7 | situations where there's moderate drought, and | | Ă | The City of Russell wouldn't couldn't take |
| 8 | in the third what's available in those cases | 8 | | all 4800 acre-feet. |
| 9 | where there's exceptional drought. So does that | 9 | ~ | Well, of course, you would only be I'm not |
| 10 | make sense? | 10 | - | privy to your agreement with Hays, but I'm |
| 11 A | | 11 | | assuming that you would be entitled to some |
| 12 | doesn't take into account the possibility of | 12 | | percentage of that; is that right? |
| 13 | contamination to the surface water which makes | | A | We would take all of our percentage. |
| 14 | it unusable. | | Q | Okay. |
| | | | Q A | And use it. |
| 15 (| | | | |
| 16 | his report. | | Q | And how many acre-feet would that be? |
| 17 A | | | A | 18 percent of 4800. |
| 18 (| · · · · · | | Q | So that part that part of it is simply based |
| 19 | that that the City of Russell is is only | 19 | | on your percentage interest? |
| 20 | entitled to to water rights that are | | A | Yes. |
| 21 | commensurate with its reasonable needs? | | Q | Okay. So you did talk some yesterday about |
| 22 A | | 22 | | people moving back to Russell. Do you have |
| 23 | of water rights, but we're only able to use Big | 23 | | in recent years. Do you have a number for that? |
| 24 | Creek and the Pfeifer wellfield combined. | | Α | Oh, I'd say in probably the last two or three |
| 25 (| Well, and I've asked an inartful question, which | 25 | | years, 40 or 50. |
| | Page 574 | | | Page 576 |
| | - | | 0 | - |
| 1 | is not all that unusual. Is if you're going | | Q | Okay. And is there a common reason they're |
| 2 | to acquire a water right, you're only entitled | 2 | | moving back or a variety of reasons? |
| 3 | to that amount that is commensurate with your | | | I think a lot of it has to do with them being |
| 4 | reasonable need. Would you agree with that? | 4 | | able to work remotely so there a lot of we |
| 5 A | | 5 | | have high-speed internet, have for a long time, |
| 6 (| | 6 | | and they're moving back. Mostly for that and to |
| 7 | I'm misstating this, the City of Russell at the | 7 | | be back with family and back in their hometown. |
| 8 | moment has more water theoretically available to | 8 | - | And so when you say moving back, have these been |
| 9 | it that it can use; is that right? | 9 | | mostly or exclusively people that were were |
| 10 A | | 10 | | Russell residents and now are returning? |
| 11 (| • | | Α | No, we're getting quite a few people from the |
| 12 A | 5 | 12 | | Colorado and California. |
| 13 | flowed every day of the year and we were able to | | Q | So would you characterize Russell's business |
| 14 | use it, then we'd have enough water supply, but | 14 | | prospects at the moment as promising? |
| 15 | it doesn't flow regularly. When it doesn't | 15 | Α | What do you mean business prospects? |
| 16 | flow, we have to use our wellfield more often, | | Q | People moving back, new business? |
| 17 | and the more often we use it, the more strain we | 17 | | Yes. |
| 18 | put on it. And we also, because of that, Post | 18 | Q | Okay. And I think you talked also about what I |
| 19 | Rock Rural Water supplies between 100,000 and | 19 | | wrote down as downtown development, I think you |
| 20 | 200,000 gallons a day to our industrial | 20 | | specifically were talking about apartments, |
| 21 | customers. So, no, we don't have enough. | 21 | | perhaps, in the downtown area, but has there |
| 1 6 | | 22 | | been some downtown development or redevelopment? |
| 22 (| Okay. So let me ask a slightly different | 22 | | been some downtown development of redevelopment? |
| 22 (23 | question: If if you were to get your full | | A | Yes. |
| | question: If if you were to get your full share of the R9 water, is is that more water | 23 | | |
| 23 | question: If if you were to get your full | 23 24 | A | Yes. |

| | | 1 | |
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| | Page 577 | | Page 579 |
| 1 Q | Okay. Is that accelerating at this point? | 1 A | Yes. |
| 2 A | Yes. | 2 (| And I understand that you were talking about |
| зQ | You talked at some length about about | 3 | another contemplated expansion yesterday; is |
| 4 | PureField, which is a significant employer in | 4 | that right? |
| 5 | Russell, correct? | 5 A | Yes. |
| 6 A | Yes. | 6 (| 2 They also talk about that in this article, I |
| 7 Q | Let's look maybe at the next slide. This is, | 7 | think, and the second part that's highlighted |
| 8 | just by way of explanation, a an excerpt from | 8 | says, The company already is planning for |
| 9 | a article from worldgrain.com. The link to the | 9 | another extension of its facility too. That |
| 10 | article is at the bottom of the bottom of the | 10 | doesn't say that that's on hold in some sense, |
| 11 | page, and it's from February 9th of 2022. And | 11 | is that an incomplete statement or an inaccurate |
| 12 | it has a dateline of Russell, Kansas and states | 12 | statement? |
| 13 | that, in the first paragraph, that PureField | 13 A | I'm going to be accurate that they are planning |
| 14 | Ingredients has completed an expansion of its | 14 | for another extension or expansion. |
| 15 | facility at Russell that will increase annual | 15 (| 2 So when you say it says here, planning for an |
| 16 | production of its Heartland brand wheat protein | 16 | expansion, that says to me that nobody's pulled |
| 17 | by 50 percent. I think that is the was an | 17 | the plug on that at this point. Is that fair? |
| 18 | issue that you talked about yesterday; is that | 18 A | |
| 19 | right? | 19 | we're going? |
| 20 A | - | 20 (| No, have they said we're not going to do it? |
| 21 | is an expansion that they completed in '22 like | 21 A | |
| 22 | the article says. | 22 (| 2 So we're probably ambiguous at that point. Have |
| 23 Q | • | 23 | they said that they are planning to pursue the |
| 24 A | - | 24 | expansion depending on circumstances, for |
| 25 | 50 percent and also because of, whether it's | 25 | example? |
| | - | | |
| | Page 578 | | Page 580 |
| 1 | technology or processes, they reduced the amount | 1 A | |
| 2 | of water used by 24 percent per pound. | 2 | · · · · · · · · · · · · · · · · · · · |
| | | 2 | expansion in phases, and one of their concerns |
| 3 Q | - | 3 | is the availability of a long-term water supply. |
| 3Q 4 | MR. TRASTER: Mr. Lee, is this in | | is the availability of a long-term water supply.But they're still planning on the expansion, it |
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| 4 | MR. TRASTER: Mr. Lee, is this in your exhibits? MR. LEE: No. | 3 4 (| is the availability of a long-term water supply.But they're still planning on the expansion, it sounds like? |
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| 4 5 6 | MR. TRASTER: Mr. Lee, is this in your exhibits? MR. LEE: No. MR. TRASTER: Okay. So it's not not in your exhibits and how are we | 3 4 (5 6 <i>A</i> | is the availability of a long-term water supply. But they're still planning on the expansion, it sounds like? Yes. Okay. PureField is a fairly good size employer for a community the size of Russell, was it |
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| Luw | ar | ds County, Kansas & Kansas Water Transfer Act | | July 21, 2023 |
|--|--------------------------------------|---|--|---|
| | | Page 581 | | Page 583 |
| 1 (| 0 | So would it be accurate, then, that they, as far | 1 | accustomed to using engineering studies that are |
| 2 | Y | as you know, chose Russell on the merits? | 2 | 56 years old? |
| 3 | ۸ | Pure yeah, I'd say PureField made their own | | Well, they may be part of our overall decision |
| 4 | П | decisions on why they purchased the existing | 4 | looking at historical thought processes or what |
| 5 | | gluten and ethanol facilities. | 5 | was available then. We take a holistic approach |
| | Q | Has are you in fairly regular communication | 6 | when we're looking at plans. |
| 7 | Q | with PureField, at least, local executives? | 7 Q | I think that's fair, but I think the more |
| 8 | ٨ | Yes. | 8 | specific question is if you've got an |
| 9 | | And have they threatened at this point to leave | 9 | engineering study in the file that's 56 years |
| | Q | Russell? | 9 10 | old, you're not going to rely on that as the |
| 10 11 | ٨ | No. | | sole source of information, right? |
| | | | 11 | - |
| 12 (| Q | You indicated that PureField is receiving a | 12 A | Not as the sole source, correct. |
| 13 | | fairly significant amount of water from the Post | 13 Q | Okay. So let's look maybe at the next slide and |
| 14 | | Rock entity? | 14 | if we could make that a bit bigger. This is |
| 15 | | Uh-huh. | 15 | taken from the can you read that? |
| 16 | | Right? | 16 A | No. |
| 17 | | Yes. | 17 Q | Well, I can help. This is taken from the Wilson |
| 18 | - | And I think you said 200,000 gallons? | 18 | report, the top part of this is from page 15, |
| 19 | | Up to 200,000 gallons a day. | 19 | and it's talking about population growth, which |
| 20 | Q | Okay. So I was I was curious, as I listened | 20 | I think is something you were alluding to |
| 21 | | to your testimony, that you said that first | 21 | earlier. And Wilson projects a population for |
| 22 | | off, apparently Post Rock services a pretty | 22 | Russell in 2020 of 12,300 persons. That misses |
| 23 | | pretty wide area; is that right? | 23 | the mark, does it not? |
| 24 | | Yes. | 24 A | |
| 25 (| Q | And I believe that you said that the source of | 25 Q | And then the Wilson report further at page 17 |
| | | | | |
| | | Page 582 | | Page 584 |
| 1 | | - | 1 | |
| 1 | | their water is Kanopolis Reservoir; is that | 1 | talks about a projection for annual total |
| 2 | A | their water is Kanopolis Reservoir; is that right? | 2 | talks about a projection for annual total demand, and I'll read this for you because I |
| 2 3 | | their water is Kanopolis Reservoir; is that right? That's my understanding. | 2 3 | talks about a projection for annual total demand, and I'll read this for you because I know it's difficult from your vantage point to |
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| 2 3 4 5 6 | Q | their water is Kanopolis Reservoir; is that right? That's my understanding. You, meaning Russell and the City of Hays, apparently considered Kanopolis not to be a viable alternative to R9; is that right? | 2 3 4 5 6 | talks about a projection for annual total demand, and I'll read this for you because I know it's difficult from your vantage point to read, but the bottom part of it says, This amount to an annual total amounts to an annual total demand of 359 million gallons in |
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| _ | | wards County, Kansas & Kansas Water Transfer Act |
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| | | Page 587 |
| 1 | Q | Let me simply get over closer so I can read this |
| 2 | - | to you. |
| | Α | Okay. |
| | | This is, again, from the Bartlett & West report, |
| | × | and the part that's highlighted here says that |
| | | Even though the City has more than adequate |
| | | water rights for their estimated future demand |
| | | of 2748 acre-feet, and then it goes on to talk |
| | | about the restrictions that DWR has has |
| | | |
| | | imposed. Is that an accurate statement that the |
| | | City has more than adequate water rights for |
| | | their estimated future demand of 2,748 |
| | | acre-feet? |
| 14 | Α | We have water rights, but we only have access to |
| 15 | | a certain amount of water from those water |
| 16 | | rights because the one of the water rights is |
| 17 | | Smoky Hill surface water right for 1,000 |
| 18 | | acre-feet; we can't take water from the Smoky, |
| 19 | | it's so we have a lot of paper water rights, |
| 20 | | but what we can actually use is not adequate. |
| 21 | Q | Okay. So I understand what you're saying is |
| 22 | - | that as far as this goes in terms of water |
| 23 | | rights, that's accurate but in terms of what you |
| | | think is actually available to you, that |
| | | requires further discussion; is that right? |
| | | 1 |
| | | Page 588 |
| 1 | A | Yeah. |
| 2 | Q | Okay. If we could look at the next slide. This |
| 3 | | states, and you can tell me if this is just |
| 4 | | something that is not within your your |
| 5 | | knowledge wheelhouse, but this is on page 5 of |
| 6 | | |
| | | the Bartlett & West report, and it's under the |
| 7 | | the Bartlett & West report, and it's under the heading 3.01 of existing demand. |
| | | heading 3.01 of existing demand. |
| 8 | | heading 3.01 of existing demand. MR. COLE: Counsel, would you mind, |
| 8 9 | | heading 3.01 of existing demand. MR. COLE: Counsel, would you mind, I think we have a copy of that exhibit |
| 8 9 10 | | heading 3.01 of existing demand. MR. COLE: Counsel, would you mind, I think we have a copy of that exhibit MR. LEE: Sure. |
| 8 9 10 11 | | heading 3.01 of existing demand. MR. COLE: Counsel, would you mind, I think we have a copy of that exhibit MR. LEE: Sure. MR. COLE: if we can provide |
| 8 9 10 11 12 | ٨ | heading 3.01 of existing demand. MR. COLE: Counsel, would you mind, I think we have a copy of that exhibit MR. LEE: Sure. MR. COLE: if we can provide MS. LEE: It's 2887. |
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| | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 1 22 23 24 25 1 2 5 | 1 Q 2 A 3 A 4 Q 5 6 7 8 9 10 11 12 13 14 A 15 16 17 18 19 20 21 Q 22 23 24 25 1 A 25 1 A 25 |

| Edv | var | ds County, Kansas & Kansas Water Transfer Act | | | July 21, 2023 |
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| | | Page 589 | | | Page 591 |
| 1 | A | What page is that? | 1 | | type of stuff. So I don't think the |
| | Q | That is page 8, I believe. | 2 | | conservation culture is going to change, but |
| | Q A | Okay. | 3 | | their quality of life would improve. |
| | Q | Are you there? | 4 | - | So does quality of life equate to increased |
| | × A | Yes. | 5 | - | per capita water use? |
| | Q | Okay. In the middle paragraph, it the | | A | I couldn't tell you that. Quality of life is a |
| 7 | Q | Bartlett report says, Because the purpose of | 7 | | bunch of different factors, but quality of life |
| 8 | | this study is to help identify a water source | 8 | | equates to improved economy. The gallons |
| 9 | | adequate to keep the City out of water | 9 | | per capita per day is usage by different |
| 10 | | conservation measures. Does that mean the City | 10 | | customer classes. |
| 11 | | is looking to abandon its conservation, I guess | | Q | Well, and that's really my question, would it be |
| 12 | | it's probably characterized as a carrot and | 12 | - | the expectation that the gallons per capita per |
| 13 | | stick sort of sort of approach, is it the | 13 | | day figure would stay roughly the same as it is |
| 14 | | City's intention to to back away from | 14 | | now. |
| 15 | | conservation measures that the that have been | | Α | I couldn't tell you 'cause it fluctuates year to |
| 16 | | traditionally imposed in the City? | 16 | | year. I know that in our conservation plan that |
| 17 | Α | No, not at all. | 17 | | our stated goal is not to exceed the regional |
| 18 | | So would you intend to keep those in place | 18 | | average. I don't see it that it would |
| 19 | | regardless of what happens with the R9 project? | 19 | | skyrocket and exceed that. We're still going to |
| 20 | Α | Yes. I think what this is talking about, to | 20 | | be conservative as a community. |
| 21 | | keep the City out of conservation measures, | 21 | Q | Okay. And you don't have a projection or an |
| 22 | | would be to allow our community and customers to | 22 | | idea of what that is because you didn't have an |
| 23 | | have access to water like every other community | 23 | | analysis done, correct? |
| 24 | | does. But, no, the conservation plan and | 24 | А | On the gallons per capita per day? |
| 25 | | measures that we have in place would not change. | 25 | Q | Yes. |
| | | Page 590 | | | Page 592 |
| 1 | | I believe that the community now has a | 1 | A | No. |
| 1 2 | | culture of conservation. Like Hays we have | | Q | Okay. Let's look at 11. You were there. |
| 3 | | staff that go in and talk with students all the | 3 | - | MS. LEE: I know. |
| 4 | | time about saving water, fix a leak. It's kind | 4 | | Y MR. LEE: |
| 5 | | of neat to see a young person, 7, 8 years old | _ | | Despite the fact that this is a Kansas statute, |
| 6 | | come in proud because they took one of the | 6 | - | I don't, sir, intend to ask you for a legal |
| 7 | | little dye sticks, put it in the toilet, and | 7 | | interpretation. What I do want to ask you is, |
| 8 | | found out they had a leak, and they're telling | 8 | | and I'm just going to read the highlighted part |
| 9 | | Mom and Dad to turn off the water when they're | 9 | | of this that says, No water transfer shall be |
| 10 | | brushing their teeth. So I don't think that's | 10 | | approved, and as you can tell from the language, |
| 11 | | going to go away, it's ingrained in our | 11 | | this is taken from the Water Transfer Act, No |
| 12 | | community. | 12 | | water transfer shall be approved unless the |
| 13 | Q | Okay. Well, I think that's admirable. So from | 13 | | presiding officer determines that the applicant |
| 14 | | a conservation perspective, the lifestyle | 14 | | has adopted and implemented conservation plans |
| 15 | | wouldn't be really expected to change in | 15 | | and practices that, (A), are consistent with |
| 16 | | Russell, fair? | 16 | | guidelines developed and maintained by the |
| 17 | A | Well, I think that the conservation mentality | 17 | | Kansas Water Office pursuant to K.S.A. 74-2608. |
| 18 | | would still be there, but I think that having an | 18 | | And it goes on to say, if the transfer is for |
| 19 | | adequate water supply that our residents and | 19 | | use by a public water supply system, include the |
| 20 | | commercial businesses would be able to do things | 20 | | implementation of a rate structure which |
| 21 | | that they're currently restricted from doing | 21 | | encourages the efficient use of water and will |
| 22 | | that other communities enjoy, such as having a | 22 | | result in wise use and responsible conservation |
| 23 | | garden and knowing that they'd be able to water | 23 | | and management of water used by the system. |
| 24 | | it, taking care of their trees and knowing if | 24 | | Really my only question about that is do |
| | | | | | |

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| 1 | | Page 593 | | | Page 595 |
| 1 | | Transfer Act? | 1 | Α | Yes, yes. |
| 2 | Α | Yes. | 2 | Q | And what was that related to? |
| 3 | 0 | And has Russell achieved those things as we | | À | Oil |
| 4 | × | speak? | _ | Q | Okay. |
| 5 | Δ | Yes, we have a conservation plan that was | | Ā | 5 |
| 6 | | approved by the Kansas Water Office, our rate | _ | Q | Okay. Carrie-Oswald is the name of a well |
| 7 | | structure encourages an efficient use of water | 7 | × | drilled in Russell County in, I think, the mid |
| 8 | | and yes. | 8 | | 1930s or so? |
| 9 | 0 | And so those plans, those requirements as you | | A | Yes. |
| | Q | understand are built into the Water Transfer | _ | 0 | |
| 10 | | Act? | | Q | You testified on direct yesterday that the crash |
| 11 | | | 11 | | of the oil industries had an impact on the |
| 12 | A | I'd have to look at the act. From what you're | 12 | | Russell economy? |
| 13 | ~ | showing me there, yes. | _ | A | Yes. |
| 14 | Q | Okay. So my question ultimately is the City of | | Q | And you also indicated that the industries that |
| 15 | | Russell, I'm assuming, would continue to do what | 15 | | have found their home now in Russell have had a |
| 16 | | it has done in terms of representations made as | 16 | | stabilizing impact on the economy on the |
| 17 | | part of the Water Transfer Act application? | 17 | | economy? |
| 18 | Α | Yes, we will continue to have a water | | Α | Yes, that's correct. |
| 19 | | conservation plan that follows the guidelines, | | Q | And potential growth of the community? |
| 20 | | the 2007 guidelines, we'll have a rate structure | 20 | А | That's correct. |
| 21 | | regardless that will encourage the efficient use | 21 | Q | And that industry is dependent upon a reliable |
| 22 | | and continue as we have for many decades to be | 22 | | water source? |
| 23 | | good stewards of the water supply that we do | 23 | А | Correct. |
| 24 | | have. | 24 | Q | The Wilson report also suggested that for a |
| 25 | Q | Thank you. | 25 | | community to survive and perhaps thrive it needs |
| | | | | | |
| | | Page 594 | | | Page 596 |
| 1 | | MS. LANGWORTHY: No questions, Your | 1 | | industry? |
| 2 | | Honor. | 2 | А | Yes, it did. |
| 3 | | PRESIDING OFFICER: All right, thank | 3 | Q | And it suggests that one of the reasons it needs |
| 4 | | you. All right. Mr. Cole | 4 | | industry is that the children that are raised in |
| 5 | | MR. COLE: Thank you. | 5 | | the community and leave perhaps for college or |
| 6 | | PRESIDING OFFICER: any redirect? | 6 | | other adventures will have something to come |
| 7 | | MR. COLE: Just a little. | 7 | | back to? |
| 8 | | | 8 | Α | Correct. |
| 9 | | REDIRECT EXAMINATION | و | Q | You as city manager, do you think that's a wise |
| | B | Y MR. COLE: | 10 | ` | idea? |
| | Q | Just a few points. During cross, you were asked | | Α | Yes. |
| 12 | × | about the Wilson report that was dated in 1967. | | Q | Is it part of the City's vision to create an |
| 13 | Δ | Yes. | 13 | Y | environment where our kids can return? |
| 14 | | And one of the matters that is before this | | A | We want our children to return. |
| 14 15 | V | | | | |
| 112 | | tribunal deals with projections of growth, and | | Q | Is water a big part of that? |
| | | it was pointed out in that report that we have | 16 | A | Yes, it is. |
| 16 | | at Descall faller also at af that the state of the | | | |
| 16 17 | | at Russell fallen short of that growth | 17 | Q | There's been discussion, and will probably be a |
| 16 17 18 | | projection made in 1967 | 18 | Q | lot more discussion, about whatever what |
| 16 17 18 19 | | projection made in 1967 Correct. | 18 19 | Q | lot more discussion, about whatever what reasonable needs are. From your perspective, |
| 16 17 18 | | projection made in 1967 Correct. correct? And you mentioned that oil was a | 18 | Q | lot more discussion, about whatever what reasonable needs are. From your perspective, does your town presently have a secure water |
| 16 17 18 19 20 21 | Q | projection made in 1967 Correct. correct? And you mentioned that oil was a big part of Russell's economy in the past? | 18 19 20 21 | _ | lot more discussion, about whatever what reasonable needs are. From your perspective, does your town presently have a secure water supply of all of the water that it needs? |
| 16 17 18 19 20 21 22 | Q A | projection made in 1967 Correct. correct? And you mentioned that oil was a big part of Russell's economy in the past? Yes. | 18 19 20 | _ | lot more discussion, about whatever what reasonable needs are. From your perspective, does your town presently have a secure water supply of all of the water that it needs? No, it does not. |
| 16 17 18 19 20 21 | Q A | projection made in 1967 Correct. correct? And you mentioned that oil was a big part of Russell's economy in the past? Yes. Are you aware of the boom that took place in the | 18 19 20 21 22 | _ | lot more discussion, about whatever what reasonable needs are. From your perspective, does your town presently have a secure water supply of all of the water that it needs? No, it does not. And that's why we're here? |
| 16 17 18 19 20 21 22 | Q A | projection made in 1967 Correct. correct? And you mentioned that oil was a big part of Russell's economy in the past? Yes. Are you aware of the boom that took place in the City of Russell and the explosion in the | 18 19 20 21 22 23 | A | lot more discussion, about whatever what reasonable needs are. From your perspective, does your town presently have a secure water supply of all of the water that it needs? No, it does not. And that's why we're here? Yes. |
| 16 17 18 19 20 21 22 23 | Q A | projection made in 1967 Correct. correct? And you mentioned that oil was a big part of Russell's economy in the past? Yes. Are you aware of the boom that took place in the | 18 19 20 21 22 23 24 | A Q | lot more discussion, about whatever what reasonable needs are. From your perspective, does your town presently have a secure water supply of all of the water that it needs? No, it does not. And that's why we're here? |

| | Page 597 | | | Page 599 |
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| | Tage 397 | | | Tage 555 |
| 1 | MR. TRASTER: Your Honor, I have a | 1 | | Mr. Dougherty's testimony in that regard? |
| 2 | few questions but I'm looking for a | 2 | А | Yes. |
| 3 | document or two. If you don't mind taking | 3 | Q | So it seems to me that Russell's going to have |
| 4 | a break now, that would help me out, but | 4 | | to pay for it is going to have to pay for its |
| 5 | I'm happy to proceed if | 5 | | share regardless at some point, isn't it? |
| 6 | PRESIDING OFFICER: All right. Why | 6 | А | Yes. |
| 7 | don't we take a short break, we'll come | 7 | Q | And that's the options for how to pay for it |
| 8 | back at 10:10 and pick up with | 8 | | are on the table and you'll figure that out, but |
| 9 | Mr. Traster's cross-examination at that | 9 | | if it hopefully it won't increase rates, but |
| 10 | time. | 10 | | if it increases rates, that'll have to be the |
| 11 | (Thereupon, a recess was taken; | 11 | | way it is. Is that a fair way to say it? |
| 12 | whereupon, the following was had.) | 12 | А | Correct. |
| 13 | PRESIDING OFFICER: All right. | 13 | Q | Because you don't really have any other options. |
| 14 | We'll go ahead and go back on the record | 14 | | Is that fair? |
| 15 | then. If you're ready, Mr. Traster, we'll | 15 | А | That's fair. |
| 16 | let you begin your cross. | 16 | Q | Jami, can I see Exhibit 1-2, please. |
| 17 | MR. TRASTER: I was born ready, Your | 17 | | And this is I'm going to show you the |
| 18 | Honor. | 18 | | Master Order that was issued by the chief |
| 19 | | 19 | | engineer, and this is in the reasonable-needs |
| 20 | RECROSS EXAMINATION | 20 | | section of the Master Order, and it's in |
| 21 | BY MR. TRASTER: | 21 | | particular paragraph 232 that I want you to look |
| 22 | Q Mr. Quinday, on cross-examination, you were | 22 | | at. And it basically says that the that the |
| 23 | asked about financing for this project and | 23 | | City of Russell has is entitled to a maximum |
| 24 | concerns about financing and rates, and you | 24 | | reasonable annual quantity of water for |
| 25 | provided some options and discussed bonds and | 25 | | municipal use for all water rights for all of |
| | | | | |
| | | | | |
| | Page 598 | | | Page 600 |
| 1 | | 1 | | |
| 1 | different things that could happen. Have has | 1 | | the R9 water rights combined with all other |
| 2 | different things that could happen. Have has the City of Russell done the same kinds of | 2 | | the R9 water rights combined with all other municipal rights for which Russell or its |
| 2 3 | different things that could happen. Have has the City of Russell done the same kinds of things that the City of Hays and has done to | 2 3 | | the R9 water rights combined with all other municipal rights for which Russell or its immediate vicinity is the place of use is 18 |
| 2 3 4 | different things that could happen. Have has the City of Russell done the same kinds of things that the City of Hays and has done to look at other sources for of a significant | 2 3 4 | | the R9 water rights combined with all other municipal rights for which Russell or its immediate vicinity is the place of use is 18 1,841.3 acre-feet of water. Do you see that? |
| 2 3 4 5 | different things that could happen. Have has the City of Russell done the same kinds of things that the City of Hays and has done to look at other sources for of a significant quantity of water? | 2 3 4 5 | A | the R9 water rights combined with all other municipal rights for which Russell or its immediate vicinity is the place of use is 18 1,841.3 acre-feet of water. Do you see that? Yes. |
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| | 1, 2023 | Lu | Iwarus County, Kansas & Kansas water Transfer Act |
|---|---|--|---|
| | Page 601 | | Page 603 |
| 1 | Division of Water Resources actually increases | 1 | have the three stages, but those restrictions |
| 2 | that number, that's the limit from all your | 2 | would not be in place, unless something changed, |
| 3 | sources, including the R9 Ranch, that's all you | 3 | which would allow the community and our |
| 4 | can use, correct? | 4 | customers to act like normal communities and be |
| | Correct. | | able to grow a garden or wash their car. But |
| | | 5 6 | |
| 6 Q | And that's if you could use 1800, that's | | the the mindset of conservation, even with a |
| 7 | enough for you right now, is it not? | 7 | adequate water supply, has been ingrained in the |
| 8 A | 8 | 8 | community for so long that's not going to |
| 9 Q | Jami, can I see Exhibit 154 1-54 please. | 9 | change. |
| 10 | And I would like you to go to page 8 which | 10 Q | And so with an adequate supply, the residents in |
| 11 | is the paragraph that Mr. Lee had on the screen | 11 | Russell would be would avoid having |
| 12 | earlier, and he had highlighted the first part | 12 | significant restrictions excuse me, an |
| 13 | of this, the first line or maybe part of the | 13 | adequate drought-resistant supply would have |
| 14 | second that reads, because the purpose of this | 14 | be able to use reasonable quantities of water |
| 15 | study is to help identify a water source | 15 A | Correct. |
| 16 | adequate to keep the City out of water | 16 Q | fair? |
| 17 | conservation measures, and then his highlighting | 17 A | Fair. They'd still have the rate structure in |
| 18 | stopped. Now, my understanding of your | 18 | place that is still going to, to some degree, |
| 19 | testimony is that those conservation measures | 19 | have conservation. The more you use, the more |
| 20 | that you were talking about aren't you went | 20 | you pay. |
| 21 | on to testify that you're going to continue to | 21 Q | So Mr. Lee had a portion of the statute, of the |
| 22 | conserve water and have a conservation program? | 22 | Water Transfer Act up and highlighted, and the |
| 23 A | Yes. | 23 | last part of that that's highlighted included |
| 24 Q | I think you testified yesterday that in the | 24 | something to the effect of, and I'll mess it up, |
| 25 | last, I think 12 but I don't want to I don't | 25 | but reasonable management. |
| | | | C C |
| | | | |
| | Page 602 | | Page 604 |
| 1 | - | 1 A | |
| 1 | want to mischaracterize it, in the last 10 or | 1 A 2 O | Uh-huh. |
| 2 | want to mischaracterize it, in the last 10 or 12 years you've been in some sort of | 2 Q | Uh-huh. Is reasonable management of a public water |
| 2 3 | want to mischaracterize it, in the last 10 or 12 years you've been in some sort of restriction, that the folks in town have been | 2 Q 3 | Uh-huh. Is reasonable management of a public water supply in a community like Russell, if forcing |
| 2 3 4 | want to mischaracterize it, in the last 10 or 12 years you've been in some sort of restriction, that the folks in town have been under some sort of restriction. In fact, it was | 2 Q 3 4 | Uh-huh. Is reasonable management of a public water supply in a community like Russell, if forcing people to use less water, if you had it, if it |
| 2 3 4 5 | want to mischaracterize it, in the last 10 or 12 years you've been in some sort of restriction, that the folks in town have been under some sort of restriction. In fact, it was Mr. Wagner that testified, I think, that it's | 2 Q 3 4 5 | Uh-huh. Is reasonable management of a public water supply in a community like Russell, if forcing people to use less water, if you had it, if it was available, to force them to continue to |
| 2 3 4 5 6 | want to mischaracterize it, in the last 10 or 12 years you've been in some sort of restriction, that the folks in town have been under some sort of restriction. In fact, it was Mr. Wagner that testified, I think, that it's been a long time since there was the people | 2 Q 3 4 5 6 | Uh-huh. Is reasonable management of a public water supply in a community like Russell, if forcing people to use less water, if you had it, if it was available, to force them to continue to use have the restrictions that have been |
| 2 3 4 5 6 7 | want to mischaracterize it, in the last 10 or 12 years you've been in some sort of restriction, that the folks in town have been under some sort of restriction. In fact, it was Mr. Wagner that testified, I think, that it's been a long time since there was the people in the residents in Russell could use the | 2 Q 3 4 5 6 7 | Uh-huh. Is reasonable management of a public water supply in a community like Russell, if forcing people to use less water, if you had it, if it was available, to force them to continue to use have the restrictions that have been placed in place in Russell for the last |
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| 2 3 4 5 6 7 8 9 A 10 Q 11 A 12 Q 13 14 15 16 A 17 18 19 20 21 22 23 | want to mischaracterize it, in the last 10 or 12 years you've been in some sort of restriction, that the folks in town have been under some sort of restriction. In fact, it was Mr. Wagner that testified, I think, that it's been a long time since there was the people in the residents in Russell could use the full quantity that they might want to use. Correct. Is that fair? Yes. And tell me a little about that emergency or warning, I mean, what we saw the resolutions with some restrictions, but have those been restrictions been in place for a while? They've been off and on for the last 10 or 12 years. The most severe restrictions, like we went over yesterday, was the 25 percent reduction to the industrial customers, you can't wash your car, you can't water your lawn, can't fill the pool, can't water your garden, basically any outdoor use is limited. But this talking about conservation | 2 Q 3 4 5 6 7 8 9 A 10 11 12 13 14 15 16 17 18 19 20 21 22 23 Q | Uh-huh. Is reasonable management of a public water supply in a community like Russell, if forcing people to use less water, if you had it, if it was available, to force them to continue to use have the restrictions that have been placed in place in Russell for the last several years? Not to have the mandatory restrictions but to be cognizant that water is a valuable resource no matter where you are. And, for example, the waste of water, regardless of if we had a long-term, reliable, adequate supply, I don't think the governing body is going to change it to make it illegal to waste water, I don't think the governing body is going to change that you can only water your lawn before 10:00 a.m. and after 7:00 p.m., because it makes sense during the heat of the day and when it's windy, you shouldn't water. So they're still going to be good stewards of their water source as they always have been. |

| Edv | war | ds County, Kansas & Kansas Water Transfer Act | | | July 21, 2023 |
|----------------------|-------------|---|----------------------|--------|---|
| | | Page 605 | | | Page 607 |
| 1 | Q | Okay. Thank you. I don't have any further | 1 | Q | And is that what facility is that? |
| 2 | × | questions. | | - | I'm my office is located at the water |
| 3 | | PRESIDING OFFICER: Mr. Lee? | 3 | | softening plant on Vine Street in Hays. |
| 4 | | MR. LEE: Just one question, Your | | Q | Okay. Mr. Crispin, what you're employed by |
| 5 | | Honor. And, honestly, I think it is just | 5 | - | the City of Hays; is that |
| 6 | | one question. | | Α | Yes, I am. |
| 7 | | one question. | | Q | And what is your position? |
| 8 | | RECROSS EXAMINATION | | Ă | My current position is the director of water |
| 9 | BY | Y MR. LEE: | 9 | | resources. |
| 10 | | Mr. Quinday, just to sort of cut to the chase | | Q | So I'd like to skip back, how long have you |
| 11 | · | and follow up on Mr. Traster's questions, I | 11 | - | lived in Hays? |
| 12 | | don't think that Russell wants to take more | 12 | Α | This round, moved back to Hays in 2011, but I |
| 13 | | water from an outside source than it needs. Is | 13 | | was born and raised. |
| 14 | | that fair? | 14 | Q | Did you go to high school in |
| 15 | Α | Russell doesn't want to take water from any | | Ā | Yep, went to Hays High, graduated in 1993. |
| 16 | | source more than what we need. | 16 | Q | And then what? |
| 17 | Q | Okay. Thank you. | 17 | Α | I actually went to Fort Hays State, graduated in |
| 18 | | MR. COLE: Thank you. | 18 | | 1999. |
| 19 | | PRESIDING OFFICER: Thank you, | 19 | Q | And your degree is in what? |
| 20 | | Mr. Quinday, I think you are done with your | 20 | Α | Business management. |
| 21 | | testimony, then | 21 | Q | So you're not a hydrologist, you're not a soil |
| 22 | | THE WITNESS: Thank you. | 22 | | scientist, you're not a engineer? |
| 23 | | PRESIDING OFFICER: and you may | 23 | Α | No. No, sir. |
| 24 | | step down. Mr. Traster, I believe you have | 24 | Q | From when you graduated from Fort Hays State |
| 25 | | the next witness. | 25 | | with a business manage business management |
| | | | | | |
| | | Page 606 | | | Page 608 |
| 1 | | MR. TRASTER: Call Jeff Crispin, | 1 | | degree, what did you do next? |
| 2 | | please. | 2 | Α | I had been working for Walmart throughout the |
| 3 | | PRESIDING OFFICER: Mr. Crispin, as | 3 | | end of my high school career and into college. |
| 4 | | you've noticed with everybody else, I need | 4 | | And I have some family that works at Walmart, |
| 5 | | to swear you in here, so would you please | 5 | | and so at the time I graduated I was promoted in |
| 6 | | raise your right hand. | 6 | | 1999 to assistant store manager, and I started |
| 7 | | MR. CRISPIN: Okay. | 7 | | moving to various places around Kansas, one in |
| 8 | | | 8 | | Nebraska. |
| 9 | | JEFF CRISPIN, | 9 | - | So in you graduated from college in '99 and |
| 10 | | having first duly affirmed or sworn, was | 10 | | then where did you move? |
| 11 | | examined and testified as follows: | | Α | Wife and I got married in '99, graduated and |
| 12 | | | 12 | | moved to Hutchinson, Kansas, worked there as an |
| 13 | рч | DIRECT EXAMINATION | 13 | | assistant manager at their store for about a |
| 14 | | Y MR. TRASTER: | 14 | | year and a half. |
| 15 | Q | Will you state your name? | | Q | And then what? Mayad to Coodland Kansas with Walmart was |
| 16 | | My name is Jeff Crispin. | | Α | Moved to Goodland, Kansas with Walmart, was |
| 17 | Q | And I'd like for you to use the mic, but I don't | 17 | | still an assistant manager. The reason why they moved me there is they wanted me at the time, |
| 18 | | want you to be right on it, just enough that you | 18 | | the stores weren't all super centers, they |
| 10 | | can | 10 | | IN ADDES WELED FAILSHUELLEIDETS, HIEV |
| 19 | ٨ | can Okay | 19 | | |
| 20 | | Okay. | 20 | | wanted me to get some grocery experience, so I |
| 20 21 | Q | Okay. that everybody can hear. | 20 21 | | wanted me to get some grocery experience, so I spent a year in Goodland. |
| 20 21 22 | Q A | Okay. that everybody can hear. Jeff Crispin. | 20 21 22 | Q | wanted me to get some grocery experience, so I spent a year in Goodland. And from there you went to where? |
| 20 21 22 23 | Q A Q | Okay. that everybody can hear. Jeff Crispin. And what's your business address? | 20 21 22 23 | Q A | wanted me to get some grocery experience, so Ispent a year in Goodland.And from there you went to where?I was promoted to comanager and moved to |
| 20 21 22 | Q A Q | Okay. that everybody can hear. Jeff Crispin. | 20 21 22 | Q A | wanted me to get some grocery experience, so I spent a year in Goodland. And from there you went to where? |

| | Page 609 | | Page 611 |
|--|---|--|---|
| 1 | Supercenter. | 1 | become the interim director. And so I was |
| 2 Q | And how long were you there? | 2 | promoted to interim director in about |
| 3 A | Maybe two years | 3 | April 2015. |
| 4 Q | And then? | 4 Q | 2000 |
| 5 A | as the comanager there. | 5 A | Excuse me, 2017. |
| 6 Q | And then? | 6 Q | Thank you. And then when were you when were |
| 7 A | Had an opportunity to move back to Kansas, | 7 | you promoted from interim to the director? |
| 8 | Pratt, Kansas, the store came open for a store | 8 A | |
| 9 | manager, and I applied and accepted the | 9 Q | And that's your current position now |
| 10 | position was offered and accepted the | 10 A | |
| 11 | position and moved to Pratt. | 11 Q | is director? |
| 12 Q | | 12 A | |
| 13 A | - | 13 Q | |
| 14 Q | · · · | 14 | you graduated from college and then you came |
| 15 | recall? | 15 | back in 2011. You graduated it looks like to |
| 16 A | I think it was around maybe 2005, 2007 | 16 | me you're about 11 or 12 years where you lived |
| 17 | somewhere in 2005. | 17 | someplace other than Hays? |
| 18 Q | | 18 A | |
| 19 A | | 19 Q | |
| 20 | high-volume experience, and so I stepped into | 20 A | |
| 21 | the role of comanager in the Hays store, the | 21 Q | |
| 22 | Hays, Kansas store. | 22 | lived in Hutchinson, and in each of those, did |
| 23 Q | • | 23 | you did you have a family? |
| 24 A | | 24 A | |
| 25 O | in well, strike that. So you moved to | 25 | and I have been married for 24 years, Tina, and |
| | | | • / / |
| | Page 610 | | Page 612 |
| 1 | Hays in 2011? | 1 | we have Landon, he moved basically, we had |
| 2 A | Uh-huh. | 2 | him when we moved to Hutchinson, so he went |
| 3 Q | And you were the comanager of? | 3 | along with all the moves, he's 22 now. And then |
| 4 A | Of the Walmart Supercenter, yes. | 4 | my daughter, Karlee, she's 15, she's made a |
| 5 Q | How long were you in that position? | - | |
| | | 5 | couple moves with us. |
| 6 A | I was in that position until October of 2015 so | 5 6 Q | |
| - | I was in that position until October of 2015 so four years. | | - |
| 6 A | - | 6 Q | So you've had a wife and two children and they've they've lived in Hays for |
| 6 A 7 | four years. | 6 Q 7 | So you've had a wife and two children and they've they've lived in Hays for Yes. |
| 6 A 7 8 Q | four years. At what then what? | 6Q 7 8A | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? |
| 6 A 7 8 Q 9 A | four years. At what then what? Then I actually, I applied for and was offered | 6 Q 7 8 A 9 Q | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. |
| 6 A 7 8 Q 9 A 10 | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for | 6 Q 7 8 A 9 Q 10 A | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? |
| 6 A 7 8 Q 9 A 10 11 | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. | 6 Q 7 8 A 9 Q 10 A 11 Q | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. |
| 6 A 7 8 Q 9 A 10 11 12 | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. | 6 Q 7 8 A 9 Q 10 A 11 Q 12 A | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. |
| 6 A 7 8 Q 9 A 10 11 12 13 Q | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. The assistant director | 6 Q 7 8 A 9 Q 10 A 11 Q 12 A 13 Q | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. They didn't I mean, from the time from the |
| 6 A 7 8 Q 9 A 10 11 12 13 Q 14 A | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. The assistant director Uh-huh. | 6 Q 7 8 A 9 Q 10 A 11 Q 12 A 13 Q 14 | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. They didn't I mean, from the time from the time they were born they didn't live in Hays, they were maybe they were born there but |
| 6 A 7 8 Q 9 A 10 11 12 13 Q 14 A 15 Q | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. The assistant director Uh-huh. of the water resources department for the | 6 Q 7 8 A 9 Q 10 A 11 Q 12 A 13 Q 14 15 | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. They didn't I mean, from the time from the time they were born they didn't live in Hays, they were maybe they were born there but |
| 6 A 7 8 Q 9 A 10 11 12 13 Q 14 A 15 Q 16 | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. The assistant director Uh-huh. of the water resources department for the City of Hays? | 6 Q 7 8 A 9 Q 10 A 11 Q 12 A 13 Q 14 15 16 A | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. They didn't I mean, from the time from the time they were born they didn't live in Hays, they were maybe they were born there but Right. |
| 6 A 7 8 Q 9 A 10 11 12 13 Q 14 A 15 Q 16 17 A | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. The assistant director Uh-huh. of the water resources department for the City of Hays? Yes. | 6 Q 7 8 A 9 Q 10 A 11 Q 12 A 13 Q 14 15 16 A 17 Q | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. They didn't I mean, from the time from the time they were born they didn't live in Hays, they were maybe they were born there but Right. from infancy till 2011, they lived elsewhere? Uh-huh, correct. |
| 6 A 7 8 Q 9 A 10 11 12 13 Q 14 A 15 Q 16 17 A 18 Q | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. The assistant director Uh-huh. of the water resources department for the City of Hays? Yes. Okay. So how long were you in that position? | 6 Q 7 8 A 9 Q 10 A 11 Q 12 A 13 Q 14 15 16 A 17 Q 18 A | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. They didn't I mean, from the time from the time they were born they didn't live in Hays, they were maybe they were born there but Right. from infancy till 2011, they lived elsewhere? Uh-huh, correct. |
| 6 A 7 8 Q 9 A 10 11 12 13 Q 14 A 15 Q 16 17 A 18 Q 19 A | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. The assistant director Uh-huh. of the water resources department for the City of Hays? Yes. Okay. So how long were you in that position? That position Roughly, I mean | 6 Q 7 8 A 9 Q 10 A 11 Q 12 A 13 Q 14 15 16 A 17 Q 18 A 19 Q | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. They didn't I mean, from the time from the time they were born they didn't live in Hays, they were maybe they were born there but Right. from infancy till 2011, they lived elsewhere? Uh-huh, correct. So what I'd like for you to do for me is kind of |
| 6 A 7 8 Q 9 A 10 11 12 13 Q 14 A 15 Q 16 17 A 18 Q 19 A 20 Q | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. The assistant director Uh-huh. of the water resources department for the City of Hays? Yes. Okay. So how long were you in that position? That position Roughly, I mean | 6 Q 7 8 A 9 Q 10 A 11 Q 12 A 13 Q 14 15 16 A 17 Q 18 A 19 Q 20 | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. They didn't I mean, from the time from the time they were born they didn't live in Hays, they were maybe they were born there but Right. from infancy till 2011, they lived elsewhere? Uh-huh, correct. So what I'd like for you to do for me is kind of give us a contrast between, with respect to |
| 6 A 7 8 Q 9 A 10 11 12 13 Q 14 A 15 Q 16 17 A 18 Q 19 A 20 Q 21 A | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. The assistant director Uh-huh. of the water resources department for the City of Hays? Yes. Okay. So how long were you in that position? That position Roughly, I mean It was like a year and a half. Maybe under a year and a half, yes. | 6 Q 7 8 A 9 Q 10 A 11 Q 12 A 13 Q 14 15 16 A 17 Q 18 A 19 Q 20 21 | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. They didn't I mean, from the time from the time they were born they didn't live in Hays, they were maybe they were born there but Right. from infancy till 2011, they lived elsewhere? Uh-huh, correct. So what I'd like for you to do for me is kind of give us a contrast between, with respect to water conservation, a contrast between living in |
| 6 A 7 8 Q 9 A 10 11 12 13 Q 14 A 15 Q 16 17 A 18 Q 19 A 20 Q 21 A 22 | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. The assistant director Uh-huh. of the water resources department for the City of Hays? Yes. Okay. So how long were you in that position? That position Roughly, I mean It was like a year and a half. Maybe under a year and a half, yes. | 6 Q 7 8 A 9 Q 10 A 11 Q 12 A 13 Q 14 15 16 A 17 Q 18 A 19 Q 20 21 22 | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. They didn't I mean, from the time from the time they were born they didn't live in Hays, they were maybe they were born there but Right. from infancy till 2011, they lived elsewhere? Uh-huh, correct. So what I'd like for you to do for me is kind of give us a contrast between, with respect to water conservation, a contrast between living in those other communities and living in Hays. You |
| 6 A 7 8 Q 9 A 10 11 12 13 Q 14 A 15 Q 16 17 A 18 Q 19 A 20 Q 21 A 22 23 Q | four years. At what then what? Then I actually, I applied for and was offered and accepted the assistant director position for the City of Hays for the water resources department. The assistant director Uh-huh. of the water resources department for the City of Hays? Yes. Okay. So how long were you in that position? That position Roughly, I mean It was like a year and a half. Maybe under a year and a half, yes. And you were then what? | 6 Q 7 8 A 9 Q 10 A 11 Q 12 A 13 Q 14 15 16 A 17 Q 18 A 19 Q 20 21 22 23 | So you've had a wife and two children and they've they've lived in Hays for Yes. since at least from 2011? Yes, correct. But they lived elsewhere? Correct. They didn't I mean, from the time from the time they were born they didn't live in Hays, they were maybe they were born there but Right. from infancy till 2011, they lived elsewhere? Uh-huh, correct. So what I'd like for you to do for me is kind of give us a contrast between, with respect to water conservation, a contrast between living in those other communities and living in Hays. You knew you were aware of water having |

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| | Page 613 | | | Page 6 |
| 1 A | Not every single day but I do remember in the | 1 | A | Yep. |
| 2 | early '90s and through high school drought | 2 | | You know, I'm wondering about how life was |
| 3 | issues, drought being talked about, drought in | 3 | Ľ | different for you and your wife with this baby |
| 4 | the news, newspaper, on TV. I recall even | 4 | | or this young child in Hutchinson than it was in |
| 5 | staff, I don't know who they were at the time, | 5 | | Hays in terms of water use? |
| 6 | coming into schools and talking about water | | Α | I don't recall necessarily the water bills or |
| 7 | water concerns, water issues and how to conserve | 7 | | the amount we paid or anything like that, but I |
| 8 | so taking shorter showers, not letting water | 8 | | don't recall ever having a concern about water |
| 9 | just run, you know, and being being careful | 9 | | in any of the communities that we lived in. And |
| .0 | with the amount of water that you use, I | 10 | | we got cable, we watched the news, we watched |
| .1 | remember that. | 11 | | the local newspapers, I don't recall any of |
| 2 0 | You were here in the room during Mr. Dougherty's | 12 | | those communities having a concern or promoting |
| - ~ | testimony, were you not? | 13 | | that, hey, we need to conserve water, we need to |
| 4 A | Correct. | 14 | | take shorter showers, brush your teeth with less |
| 5 Q | And you heard him testify that the 1991 drought | 15 | | water, those type things, I don't recall that. |
| 5 <u>~</u> 6 | was the genesis for the significant conservation | 16 | 0 | No no letters in your fliers in your bill |
| .7 | programs that the City has that were put in | 17 | × | from the City about how, you know, how important |
| .8 | place? | 18 | | it is to conserve water and that sort of thing? |
| 9 A | Uh-huh. | 19 | Δ | Not that I can recall. I mean, I will say |
| 0 Q | Is that is that consistent with your | 20 | 1 | probably nationally there was talk about |
| 1 | recollection? | 21 | | droughts and things like that and those things |
| 2 A | Correct, yes. | 22 | | that are happening, but I don't recall locally |
| 3 Q | So you there were there was a period of | 23 | | any of those communities |
| 3 Q 4 | maybe eight or nine years that you, in your | 24 | 0 | There was apparently adequate water for you to |
| 5 | formative years, I would say, that you were | 25 | × | live the lifestyle that you wanted without water |
| | Page 614 | | | Page 6 |
| - | living in Have and dealing with as a technology | - | | restrictions in those communities? |
| 1 | living in Hays and dealing with, as a teenager, as a young adult, with the need to conserve | 1 2 | ٨ | I believe so. |
| 2 | | | | When you were city manager not city manager, |
| 3 | water? | 3 | Q | |
| 4 A | Yes. | 4 | | the manager, comanager, assistant manager in any |
| 5 Q | How was it how was your lifestyle is your | 5 | | of the Walmarts in Hutchinson, Goodland, |
| 6 | wife from Hays? | 6 | | Lincoln, Nebraska, or Pratt, did you ever |
| 7 A | Yes, she is. | 7 | | receive a ticket for wasting water? |
| 8 Q | Did she grow up there? | 8 | | No, no, I had not. |
| 9 A | Grew up in Ellis, rural Ellis. | 9 | Q | Did you ever think you might ever receive a |
| .0 Q | And is she about your age? And I'm not asking how old your wife is. | 10 | | ticket for wasting water? I mean, did it ever |
| - | now old vollr when is | 11 | | occur to you? |
| 1 | • | | | No, it really didn't occur to me at all. |
| .1 .2 A | She's older. | 12 | | |
| 1 2 A 3 Q | She's older. I I didn't I didn't ask. I mean, I just | 13 | | Have you ever received a ticket as a Walmart |
| 1 2 A 3 Q 4 | She's older. I I didn't I didn't ask. I mean, I just wanted to know if she was kind of in the same | 13 14 | Q | Have you ever received a ticket as a Walmart manager for wasting water? |
| .1 .2 A .3 Q .4 .5 | She's older. I I didn't I didn't ask. I mean, I just wanted to know if she was kind of in the same age range. So but she didn't grow up in | 13 14 15 | Q | Have you ever received a ticket as a Walmart manager for wasting water? I received a warning between it was probably |
| .1 .2 A .3 Q .4 .5 | She's older. I I didn't I didn't ask. I mean, I just wanted to know if she was kind of in the same age range. So but she didn't grow up in Hays, then? | 13 14 15 16 | Q | Have you ever received a ticket as a Walmart manager for wasting water? I received a warning between it was probably 2012 or '13, it was I remember the I don't |
| 1 2 A 3 Q 4 5 6 7 A | She's older. I I didn't I didn't ask. I mean, I just wanted to know if she was kind of in the same age range. So but she didn't grow up in Hays, then? From time to time she did. She she grew up | 13 14 15 16 17 | Q | Have you ever received a ticket as a Walmart manager for wasting water? I received a warning between it was probably 2012 or '13, it was I remember the I don't remember the actual date, but I was working as |
| 1 2 A 3 Q 4 5 6 7 A 8 | She's older. I I didn't I didn't ask. I mean, I just wanted to know if she was kind of in the same age range. So but she didn't grow up in Hays, then? From time to time she did. She she grew up on a farm outside of Ellis, there was time where | 13 14 15 16 17 18 | Q | Have you ever received a ticket as a Walmart manager for wasting water? I received a warning between it was probably 2012 or '13, it was I remember the I don't remember the actual date, but I was working as an overnight comanager. And it was, like, 2:00 |
| 1 2 A 3 Q 4 5 6 7 A 8 9 | She's older. I I didn't I didn't ask. I mean, I just wanted to know if she was kind of in the same age range. So but she didn't grow up in Hays, then? From time to time she did. She she grew up on a farm outside of Ellis, there was time where they moved into town, so they off and on but I | 13 14 15 16 17 18 19 | Q | Have you ever received a ticket as a Walmart manager for wasting water? I received a warning between it was probably 2012 or '13, it was I remember the I don't remember the actual date, but I was working as an overnight comanager. And it was, like, 2:00 in the morning and got called up to the front |
| 1 2 A 3 Q 4 5 6 7 A 8 9 | She's older. I I didn't I didn't ask. I mean, I just wanted to know if she was kind of in the same age range. So but she didn't grow up in Hays, then? From time to time she did. She she grew up on a farm outside of Ellis, there was time where they moved into town, so they off and on but I couldn't give you all the dates. | 13 14 15 16 17 18 19 20 | Q | Have you ever received a ticket as a Walmart manager for wasting water? I received a warning between it was probably 2012 or '13, it was I remember the I don't remember the actual date, but I was working as an overnight comanager. And it was, like, 2:00 in the morning and got called up to the front and they said, hey, there's there's an |
| 1 2 A 3 Q 4 5 6 7 A 8 9 0 1 Q | She's older. I I didn't I didn't ask. I mean, I just wanted to know if she was kind of in the same age range. So but she didn't grow up in Hays, then? From time to time she did. She she grew up on a farm outside of Ellis, there was time where they moved into town, so they off and on but I couldn't give you all the dates. And I'm not asking that, I guess what I'm really | 13 14 15 16 17 18 19 20 21 | Q | Have you ever received a ticket as a Walmart manager for wasting water? I received a warning between it was probably 2012 or '13, it was I remember the I don't remember the actual date, but I was working as an overnight comanager. And it was, like, 2:00 in the morning and got called up to the front and they said, hey, there's there's an officer that wants to talk to you. Basically we |
| 1 2 A 3 Q 4 5 6 7 A 8 9 0 1 Q 2 | She's older. I I didn't I didn't ask. I mean, I just wanted to know if she was kind of in the same age range. So but she didn't grow up in Hays, then? From time to time she did. She she grew up on a farm outside of Ellis, there was time where they moved into town, so they off and on but I couldn't give you all the dates. And I'm not asking that, I guess what I'm really kind of thinking about is you got married, you | 13 14 15 16 17 18 19 20 21 22 | Q A | Have you ever received a ticket as a Walmart manager for wasting water? I received a warning between it was probably 2012 or '13, it was I remember the I don't remember the actual date, but I was working as an overnight comanager. And it was, like, 2:00 in the morning and got called up to the front and they said, hey, there's there's an officer that wants to talk to you. Basically we had a broken sprinkler head. |
| 1 2 A 3 Q 4 5 5 6 7 A 8 9 9 0 1 Q 2 3 | She's older. I I didn't I didn't ask. I mean, I just wanted to know if she was kind of in the same age range. So but she didn't grow up in Hays, then? From time to time she did. She she grew up on a farm outside of Ellis, there was time where they moved into town, so they off and on but I couldn't give you all the dates. And I'm not asking that, I guess what I'm really kind of thinking about is you got married, you moved to Hutchinson | 13 14 15 16 17 18 19 20 21 22 23 | Q A Q | Have you ever received a ticket as a Walmart manager for wasting water? I received a warning between it was probably 2012 or '13, it was I remember the I don't remember the actual date, but I was working as an overnight comanager. And it was, like, 2:00 in the morning and got called up to the front and they said, hey, there's there's an officer that wants to talk to you. Basically we had a broken sprinkler head. There was a police officer? |
| .1 .2 A .3 Q .4 .5 .6 .7 A .8 .9 .0 .1 Q .2 .2 .3 .4 .2 .5 .6 .7 .4 .2 .5 .6 .2 .2 .4 .2 .2 .4 .2 .2 .4 .2 .2 .4 .2 .2 .4 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 | She's older. I I didn't I didn't ask. I mean, I just wanted to know if she was kind of in the same age range. So but she didn't grow up in Hays, then? From time to time she did. She she grew up on a farm outside of Ellis, there was time where they moved into town, so they off and on but I couldn't give you all the dates. And I'm not asking that, I guess what I'm really kind of thinking about is you got married, you | 13 14 15 16 17 18 19 20 21 22 | Q A Q | Have you ever received a ticket as a Walmart manager for wasting water? I received a warning between it was probably 2012 or '13, it was I remember the I don't remember the actual date, but I was working as an overnight comanager. And it was, like, 2:00 in the morning and got called up to the front and they said, hey, there's there's an officer that wants to talk to you. Basically we had a broken sprinkler head. |

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| 1 | they were on patrol, they noticed that water was | 1 Q | what are your duties? |
| 2 | escaping the property because of a broken | 2 A | - |
| 3 | sprinkler head, and they issued me a warning | 3 | water, wastewater, our collection and |
| 4 | basically because I was the manager on duty for | 4 | distribution system in the city, our |
| 5 | that property. | 5 | transmission lines, also our water conservation |
| 6 Q | It was a sprinkler head like from a | 6 | program, and also the R9 property itself, we're |
| 7 A | | 7 | working to establish native grasses. And so I |
| 8 | Hays. It was along 43rd Street. | 8 | have direct reports and indirect reports of up |
| 9 Q | And what'd you do? | 9 | to about 28 total employees. |
| - | I asked the officer, why am I getting the | 10 Q | And in terms of the R9 Ranch, I mean, more |
| 11 | ticket? | 11 | specifically, there's nothing it's not being |
| 12 Q | And? | 12 | operated I mean there's no farming going on |
| 13 À | He said, you're the responsible operator of the | 13 | now, I mean, what |
| 14 | property at this time and we have to issue it to | 14 A | We have a tenant at the property who grazes |
| 15 | somebody. | 15 | cattle on the property, and we're also working |
| 16 Q | I called it a ticket, it was just a warning? | 16 | with a consultant to reestablish native grasses. |
| 17 A | | 17 Q | And that's under your auspices? |
| 18 | required me to, in the morning, call our | 18 A | Yes, I have a super I have a superintendent |
| 19 | irrigation company and have it quickly repaired. | 19 | that reports to me and that is some of his main |
| 20 | 'Cause it did state what would happen if it | 20 | duties. |
| 21 | continued. | 21 Q | |
| 22 Q | What would have happened? | 22 | Mr. Crispin, can you identify this |
| 23 À | | 23 | document, please. |
| 24 | fine, different levels based on if it the | 24 A | Yeah, I believe that's the it's a letter, I |
| 25 | next level, I believe, was a \$50 fine for not | 25 | believe, from 2016, March, it's called the |
| | | | |
| | Page 618 | | Page 620 |
| 1 | taking care of it in a certain amount of time. | 1 | Aquifer Health Index, it's for Big Creek and |
| 2 | At that time, I don't recall, I just stuck | 2 | Smoky Hill wellfields, and it's a letter from |
| 3 | with me that I was not understanding why I got | 3 | Burns & McDonnell to the City of Hays. |
| 4 | the ticket. | 4 Q | 1 |
| 5 Q | So what did you do, did you turn off the | 5 A | - |
| 6 | sprinkler system? | 6 | that we had asked for, the City had asked for |
| 7 A | Yeah, I went to the back of the store, I shut it | 7 | them to develop. It's a tool basically for us |
| 8 | off, and then during normal day hours before I | 8 | to be able to operate those two wellfields in a |
| 9 | went home, I called the irrigation company and | 9 | sustainable manner. So we also understand |
| 10 | then told somebody else that, hey, this needs to | 10 | what better understand what's going on in |
| 11 | be fixed. | 11 | both aquifers and we can help continue the life |
| 12 Q | It was fixed? | 12 | of those aquifers as long as possible. And it |
| 13 A | Yes. | 13 | also helps us make decisions based on well |
| 14 0 | So after having this little episode, you still | 14 | levels and what is going on within the wells, |
| 14 Q | | | |
| 14 Q 15 | went to work for the City? | 15 | within streamflow of those over those |
| 15 | went to work for the City? Yeah. | | within streamflow of those over those aquifers such as the Smoky and the Big Creek |
| 15 16 A | went to work for the City? Yeah. Must not have been totally an unpleasant | 15 | |
| 15 16 A 17 Q | went to work for the City?Yeah.Must not have been totally an unpleasant experience? | 15 16 | aquifers such as the Smoky and the Big Creek Rivers. Is this the actual Aquifer Health Index? |
| 15 16 A 17 Q 18 | went to work for the City? Yeah. Must not have been totally an unpleasant experience? No, no, 22 1/2 years retail. | 15 16 17 | aquifers such as the Smoky and the Big Creek Rivers. Is this the actual Aquifer Health Index? No, the the actual health index is that's |
| 15 16 A 17 Q | went to work for the City? Yeah. Must not have been totally an unpleasant experience? No, no, 22 1/2 years retail. Say that again, what are you saying? | 15 16 17 18 Q | aquifers such as the Smoky and the Big Creek Rivers. Is this the actual Aquifer Health Index? No, the the actual health index is that's the documentation that basically explains it, |
| 15 16 A 17 Q 18 19 A 20 Q | went to work for the City? Yeah. Must not have been totally an unpleasant experience? No, no, 22 1/2 years retail. Say that again, what are you saying? 22 1/2 years in retail is what I worked. | 15 16 17 18 Q 19 A | aquifers such as the Smoky and the Big Creek Rivers. Is this the actual Aquifer Health Index? No, the the actual health index is that's the documentation that basically explains it, but it's like a spreadsheet that it's a |
| 15 16 A 17 Q 18 19 A | went to work for the City? Yeah. Must not have been totally an unpleasant experience? No, no, 22 1/2 years retail. Say that again, what are you saying? | 15 16 17 18 Q 19 A 20 | aquifers such as the Smoky and the Big Creek Rivers. Is this the actual Aquifer Health Index? No, the the actual health index is that's the documentation that basically explains it, |
| 15 16 A 17 Q 18 19 A 20 Q 21 A | went to work for the City? Yeah. Must not have been totally an unpleasant experience? No, no, 22 1/2 years retail. Say that again, what are you saying? 22 1/2 years in retail is what I worked. | 15 16 17 18 Q 19 A 20 21 | aquifers such as the Smoky and the Big Creek Rivers. Is this the actual Aquifer Health Index? No, the the actual health index is that's the documentation that basically explains it, but it's like a spreadsheet that it's a |
| 15 16 A 17 Q 18 19 A 20 Q 21 A 22 Q | went to work for the City? Yeah. Must not have been totally an unpleasant experience? No, no, 22 1/2 years retail. Say that again, what are you saying? 22 1/2 years in retail is what I worked. And so okay, I see. So what are your but | 15 16 17 18 Q 19 A 20 21 22 | aquifers such as the Smoky and the Big Creek Rivers. Is this the actual Aquifer Health Index? No, the the actual health index is that's the documentation that basically explains it, but it's like a spreadsheet that it's a spreadsheet that requires some inputs but some |

| Euwa | ds County, Kansas & Kansas water Transfer Act | | July 21, 2023 |
|--|--|--|---|
| | Page 621 | | Page 623 |
| 1 | developing a score of a relative health score | 1 | specialist, and she manages the the |
| 2 | of each of our aquifers. | 2 | operations. And I will say water conservation |
| 3 Q | And we'll talk about that, but when you say that | 3 | is not just it's own little silo. For us, for |
| 4 | you can put in this data, is that you | 4 | our whole department, it's important, from |
| 5 | can decide whether to put it in or not? | 5 | you know, whether it's out in the field and we |
| 6 A | No, we put it in. | 6 | have a water main break and we need to get to |
| 7 Q | So it's not you can put it in, you do put it in? | 7 | that quickly so we're not wasting water. But |
| 8 A | Yeah, we we do put it in, we use it. | 8 | our conservation program is run by Holly, and |
| 9 Q | So, Jami, let's take a look at Exhibit 2625. | 9 | our resources are important to her as well |
| 10 | Can you identify this document? | 10 | just as well as me. |
| 11 A | Yeah, that is a that is a PowerPoint, those | 11 Q | So she's the face of the conservation program, I |
| 12 | are PowerPoint sheets, or whatever, it is a | 12 | guess? |
| 13 | presentation. We had asked when that original | 13 A | Yeah, she's yeah, she's a better face than I |
| 14 | March report came out that we would have some | 14 | am. |
| 15 | sort of a workshop to discuss how it works, and | 15 Q | Well, I met her and I |
| 16 | this is basically gives a summary of how it | 16 A | But she's very good at her job. |
| 17 | operates and how we input data. | 17 Q | So it's interesting, I mean, so your employees, |
| 18 Q | | 18 | I mean, she does she ride herd on your |
| 19 A | | 19 | employees to make sure they they're doing |
| 20 Q | And they're the ones that prepared the Aquifer | 20 | what they need to do, or is that you or that's |
| 21 | Health Index report | 21 | not needed? |
| 22 A | | 22 A | Our employees, I would say, citywide understand |
| 23 Q | | 23 | water conservation as a priority, not just us, |
| 24 | correct? | 24 | you know, not just our department, but I would |
| 25 A | That's correct, yes. | 25 | say all employees do. We live it. |
| | | | |
| | Page 622 | | Page 624 |
| | Page 622 | | Page 624 |
| 1 Q | Jami, I can't tell you exactly which page I want | 1 Q | So let's skip down another one. I think it's |
| 2 | Jami, I can't tell you exactly which page I want but okay, let's yeah, back up. I want the | 2 | So let's skip down another one. I think it's so there we go. |
| 2 3 | Jami, I can't tell you exactly which page I want but okay, let's yeah, back up. I want the second page. | 2 3 | So let's skip down another one. I think it's so there we go. So you talked earlier about putting data |
| 2 3 4 | Jami, I can't tell you exactly which page I want but okay, let's yeah, back up. I want the second page. Is this kind of a summary, page 2, of | 2 3 4 | So let's skip down another one. I think it's so there we go. So you talked earlier about putting data into the spreadsheet and is are these the |
| 2 3 4 5 | Jami, I can't tell you exactly which page I want but okay, let's yeah, back up. I want the second page. Is this kind of a summary, page 2, of Exhibit 2625? | 2 3 4 5 | So let's skip down another one. I think it's so there we go. So you talked earlier about putting data into the spreadsheet and is are these the three inputs, the saturated thickness, |
| 2 3 4 5 6 A | Jami, I can't tell you exactly which page I want but okay, let's yeah, back up. I want the second page. Is this kind of a summary, page 2, of Exhibit 2625? Yeah, it | 2 3 4 5 6 | So let's skip down another one. I think it's so there we go. So you talked earlier about putting data into the spreadsheet and is are these the three inputs, the saturated thickness, streamflow, and pumping? |
| 2 3 4 5 6 A 7 Q | Jami, I can't tell you exactly which page I want but okay, let's yeah, back up. I want the second page. Is this kind of a summary, page 2, of Exhibit 2625? Yeah, it Of the basics of what it's for? | 2 3 4 5 6 7 A | So let's skip down another one. I think it's so there we go. So you talked earlier about putting data into the spreadsheet and is are these the three inputs, the saturated thickness, streamflow, and pumping? Yeah, those are those are the inputs that go |
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|---|---|---|---|--|
| | Page 625 | | | Page 627 |
| 1 A | Correct. | 1 | | that line, and then on the far west and the far |
| 2 Q | And it's your job to operate those wells through | 2 | | east, those are the two USGS streamflow gages. |
| 3 | your employees, right? | | Q | And they're labeled that? They're triangles but |
| 4 A | | 4 | × | they're labeled? |
| 5 Q | | | A | They're labeled. And I don't recall how exactly |
| | | 6 | A | the monitor wells are labeled, but they may be |
| 6 A | | | | |
| 7 | rights. | 7 | 0 | in the triangle as well. |
| 8 Q | | | Q | Well, it looks like to me from here, and it is |
| 9 A | | 9 | | kind of small, but we got to be able to see the |
| 10 Q | | 10 | | whole thing, that they're red dots. |
| 11 | there's some up here by C33, well C33, there's a | 11 | | Okay. |
| 12 | green triangle down by C19 at the bottom of the | 12 | Q | Which, you know, if but there are five |
| 13 | screen, and there are probably some others. You | 13 | | monitoring wells in that area? |
| 14 | said there were five? | 14 | А | Correct. |
| 15 A | Yes, correct. | 15 | Q | And they monitor the |
| 16 Q | And those are the monitoring wells? | 16 | Α | The depth the depth to water. |
| 17 A | - | 17 | Q | And that matters why? |
| 18 | wells that are used for determining the health | 18 | - | Because if it's dropping, then water's leaving |
| 19 | of the aquifer, of the Big Creek aquifer, yes. | 19 | | the aquifer or it's being pumped out. |
| 20 Q | | 20 | 0 | What do you mean leaving? If you're not pumping |
| 20 Q 21 | map, but Big Creek flows sort of across the | 21 | × | it out, it's right there for you, right? |
| 22 | south side of town, right? | 22 | ٨ | But still flows under even if there's no flow |
| | • | | A | |
| 23 A | , | 23 | | in the Smoky, there's flow underground, and it |
| 24 Q | 0 | 24 | | could be leaving the aquifer anyway. So it |
| 25 A | Further south, kind of by the legend, I think | 25 | | could could drop that way. |
| | Page 626 | | | Page 628 |
| 1 | it's in red, to the left. | 1 | Q | You're telling me that if you don't if you |
| 2 Q | | 2 | - | stop pumping, the water isn't there for you? Or |
| - | | | | |
| 3 A | | | | |
| 3 A 4 | No, along 183 there is a dot to the left of the | 3 | A | at least it's less or what? |
| 4 | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right | 3 4 | A | at least it's less or what? Well, it has potential if there's no recharge |
| 4 5 | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. | 3 4 5 | | at least it's less or what? Well, it has potential if there's no recharge upstream. |
| 4 5 6 Q | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? | 3 4 5 6 | | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go |
| 4 5 6 Q 7 A | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS | 3 4 5 6 7 | | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are |
| 4 5 6 Q 7 A 8 | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. | 3 4 5 6 7 8 | | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about |
| 4 5 6 Q 7 A 8 9 Q | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the | 3 4 5 6 7 8 9 | Q | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. |
| 4 5 6 Q 7 A 8 9 Q 10 | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage | 3 4 5 7 8 9 | Q | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, |
| 4 5 6 Q 7 A 8 9 Q 10 11 A | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's | 3 4 5 7 8 9 10 11 | Q | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve |
| 4 5 6 Q 7 A 9 Q 10 11 A 12 | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. | 3 4 5 7 8 9 10 11 12 | Q A | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. |
| 4 5 6 Q 7 A 8 9 Q 10 11 A | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the | 3 4 5 7 8 9 10 11 | Q A | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. Let's not do those curves, nobody's going to |
| 4 5 6 Q 7 A 8 9 Q 10 11 A 12 | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the streamflow, you put in the monitoring well | 3 4 5 7 8 9 10 11 12 | Q A | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. |
| 4 5 6 Q 7 A 8 9 Q 10 11 A 12 13 Q | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the | 3 4 5 7 8 9 10 11 12 13 | Q A | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. Let's not do those curves, nobody's going to |
| 4 5 6 Q 7 A 9 Q 10 11 A 12 13 Q 14 | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the streamflow, you put in the monitoring well levels, and then how much you pump? | 3 4 5 6 7 8 9 10 11 12 13 14 | Q A | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. Let's not do those curves, nobody's going to understand them anyway. I'm just looking at the |
| 4 5 6 Q 7 A 8 9 Q 10 11 A 12 13 Q 14 15 | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the streamflow, you put in the monitoring well levels, and then how much you pump? | 3 4 5 6 7 8 9 10 11 12 13 14 15 | Q A Q | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. Let's not do those curves, nobody's going to understand them anyway. I'm just looking at the four categories over here and asking you what |
| 4 5 6 Q 7 A 8 9 Q 10 11 A 12 13 Q 14 15 15 A | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the streamflow, you put in the monitoring well levels, and then how much you pump? Yeah, then the overall pumping for the entire wellfield. | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | Q A Q | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. Let's not do those curves, nobody's going to understand them anyway. I'm just looking at the four categories over here and asking you what what are you The output data, if it's between 61 and 100, |
| 4 5 6 Q 7 A 8 9 Q 10 11 A 12 13 Q 14 15 16 A 17 18 Q | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the streamflow, you put in the monitoring well levels, and then how much you pump? Yeah, then the overall pumping for the entire wellfield. And then the spreadsheet does its magic and it | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | Q A Q A | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. Let's not do those curves, nobody's going to understand them anyway. I'm just looking at the four categories over here and asking you what what are you The output data, if it's between 61 and 100, tells me we're in good status. |
| 4 5 6 Q 7 A 9 Q 10 11 A 12 13 Q 14 15 16 A 17 18 Q 19 | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the streamflow, you put in the monitoring well levels, and then how much you pump? Yeah, then the overall pumping for the entire wellfield. And then the spreadsheet does its magic and it kicks out a score? | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 | Q A Q A Q | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. Let's not do those curves, nobody's going to understand them anyway. I'm just looking at the four categories over here and asking you what what are you The output data, if it's between 61 and 100, tells me we're in good status. What what's your current status? |
| 4 5 6 Q 7 A 9 Q 10 11 A 12 13 Q 14 15 16 A 17 18 Q 19 20 A | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the streamflow, you put in the monitoring well levels, and then how much you pump? Yeah, then the overall pumping for the entire wellfield. And then the spreadsheet does its magic and it kicks out a score? Yes, it does. | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | Q A Q A Q A | <pre>at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. Let's not do those curves, nobody's going to understand them anyway. I'm just looking at the four categories over here and asking you what what are you The output data, if it's between 61 and 100, tells me we're in good status. What what's your current status? 65 to 70 in both aquifers.</pre> |
| 4 5 6 Q 7 A 8 9 Q 10 11 A 12 13 Q 14 15 16 A 17 18 Q 19 20 A 21 Q | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the streamflow, you put in the monitoring well levels, and then how much you pump? Yeah, then the overall pumping for the entire wellfield. And then the spreadsheet does its magic and it kicks out a score? Yes, it does. Let's go to the next page. So and this is | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | Q A Q A Q A Q | at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. Let's not do those curves, nobody's going to understand them anyway. I'm just looking at the four categories over here and asking you what what are you The output data, if it's between 61 and 100, tells me we're in good status. What what's your current status? 65 to 70 in both aquifers. So they're in, quote, good |
| 4 5 6 Q 7 A 8 9 Q 10 11 A 12 13 Q 14 15 16 A 17 18 Q 19 20 A 21 Q 22 | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the streamflow, you put in the monitoring well levels, and then how much you pump? Yeah, then the overall pumping for the entire wellfield. And then the spreadsheet does its magic and it kicks out a score? Yes, it does. Let's go to the next page. So and this is figure 2 of Exhibit 255, and what is this | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | Q A Q A Q A Q A | <pre>at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. Let's not do those curves, nobody's going to understand them anyway. I'm just looking at the four categories over here and asking you what what are you The output data, if it's between 61 and 100, tells me we're in good status. What what's your current status? 65 to 70 in both aquifers. So they're in, quote, good Currently in good status, yes.</pre> |
| 4 5 6 Q 7 A 8 9 Q 10 11 A 12 13 Q 14 15 16 A 17 18 Q 19 20 A 21 Q 22 23 | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the streamflow, you put in the monitoring well levels, and then how much you pump? Yeah, then the overall pumping for the entire wellfield. And then the spreadsheet does its magic and it kicks out a score? Yes, it does. Let's go to the next page. So and this is figure 2 of Exhibit 255, and what is this showing? | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | Q A Q A Q A Q A Q | <pre>at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. Let's not do those curves, nobody's going to understand them anyway. I'm just looking at the four categories over here and asking you what what are you The output data, if it's between 61 and 100, tells me we're in good status. What what's your current status? 65 to 70 in both aquifers. So they're in, quote, good Currently in good status, yes. Okay. What's watch?</pre> |
| 4 5 6 Q 7 A 8 9 Q 10 11 A 12 13 Q 14 15 16 A 17 18 Q 19 20 A 21 Q 22 | No, along 183 there is a dot to the left of the legend. I mean, if you blow it up it's right there. Oh, that? There's a streamflow gage there, a USGS streamflow gage. So you put the daily readings from the streamflow gage Yeah, there's a historical record, but it's monitored through the USGS. Okay. So you put that information in, the streamflow, you put in the monitoring well levels, and then how much you pump? Yeah, then the overall pumping for the entire wellfield. And then the spreadsheet does its magic and it kicks out a score? Yes, it does. Let's go to the next page. So and this is figure 2 of Exhibit 255, and what is this showing? | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | Q A Q A Q A Q A Q | <pre>at least it's less or what? Well, it has potential if there's no recharge upstream. Okay. So let's go back to 2625, please. And go back up one page, I think. So there are there you go, four categories, tell us about those four categories. So I'm not an engineer, so my understanding, basically, there's a cumulative frequency curve that is created based on historical data. Let's not do those curves, nobody's going to understand them anyway. I'm just looking at the four categories over here and asking you what what are you The output data, if it's between 61 and 100, tells me we're in good status. What what's your current status? 65 to 70 in both aquifers. So they're in, quote, good Currently in good status, yes.</pre> |

| Lun | | ds County, Kansas & Kansas Water Transfer Act | | | July 21, 2023 |
|--|--|--|--|--|---|
| | | Page 629 | | | Page 631 |
| 1 | 0 | And so when you put your numbers in every day, | 1 | | (Discussion held off the record.) |
| 2 | × | it kicks out a score? | 2 | | Y MR. TRASTER: |
| 3 | Δ | Uh-huh. | 3 | - | |
| 4 | | And right now it's 65 to 70, and so things are | 4 | - | out these levels and scores, and it's scored |
| | Q | fine, but there it's kind of getting close to | | | now, what do you do you, like, report those |
| 5 | | 60 65, I mean, that's the low end of good, | 5 | | |
| 6 | | • | 6 | | scores to somebody? |
| 7 | | right? | | Α | |
| | A | Correct, yeah. | 8 | | basically, I compile what the current report |
| | Q | So are you watching it pretty | 9 | | looks at looks like, along with the current |
| 10 | | Watch it daily. | 10 | | drought monitor map that's released by UNL on |
| 11 | Q | So you're in Wichita, I mean, somebody kicked | 11 | | Thursdays, and I send that, along with our |
| 12 | | out a score and you | 12 | | precipitation, current precipitation situation |
| 13 | | I call and ask for a score, yes. | 13 | | in Hays, and I send that to city staff, our |
| 14 | Q | Okay. So what happens when you hit the watch | 14 | | department, our department heads, our city |
| 15 | | category? | 15 | | attorney, and city manager's office to make sure |
| 16 | A | Well, when we hit a watch category, we also look | 16 | | that everybody is informed. And then in turn |
| 17 | | at our water conservation we look at our | 17 | | that gets shared with our commission. |
| 18 | | water conservation plan, and that could trigger | | Q | |
| 19 | | us to take some additional measures based on our | 19 | | report, but that doesn't go in the Aquifer |
| 20 | | current plan. | 20 | | Health Index? |
| 21 | Q | An example, just one? | 21 | Α | |
| 22 | A | Well, that would increase our education efforts | 22 | | outlook reports and drought maps and you use |
| 23 | | based on current wellfield conditions, it | 23 | | precipitation to understand are we in a |
| 24 | | basically that would be the gist of it is more | 24 | | situation where we haven't had rain for two, |
| 25 | | education because we're wanting to watch what's | 25 | | three months and that is concerning, so |
| | | | | | |
| | | Dama 620 | | | Dara (22) |
| | | Page 630 | | | Page 632 |
| 1 | | going on. | 1 | Q | Are you in that situation? |
| 2 | - | going on. Making sure that the public is aware | | Q A | Are you in that situation? We're still in exceptional drought. We are |
| | - | going on. Making sure that the public is aware Yes. | | A | Are you in that situation? We're still in exceptional drought. We are not our local KSU report is 154-year average |
| 2 | A | going on. Making sure that the public is aware Yes. that, hey, listen, we're getting close. Is | 2 | A | Are you in that situation? We're still in exceptional drought. We are not our local KSU report is 154-year average of rain, and we are below the 154-year average |
| 2 3 4 5 | A Q | going on. Making sure that the public is aware Yes. that, hey, listen, we're getting close. Is that fair? | 2 3 4 5 | A | Are you in that situation? We're still in exceptional drought. We are not our local KSU report is 154-year average of rain, and we are below the 154-year average year to date. |
| 2 3 4 5 | A Q | going on. Making sure that the public is aware Yes. that, hey, listen, we're getting close. Is that fair? Yes, that's fair. | 2 3 4 5 | A | Are you in that situation? We're still in exceptional drought. We are not our local KSU report is 154-year average of rain, and we are below the 154-year average year to date. By? |
| 2 3 4 5 | A Q A | going on. Making sure that the public is aware Yes. that, hey, listen, we're getting close. Is that fair? Yes, that's fair. So Holly has to go do that? | 2 3 4 5 6 | A | Are you in that situation? We're still in exceptional drought. We are not our local KSU report is 154-year average of rain, and we are below the 154-year average year to date. By? The 154-year average by the end of month is |
| 2 3 4 5 6 7 8 | A Q A Q A | going on. Making sure that the public is aware Yes. that, hey, listen, we're getting close. Is that fair? Yes, that's fair. So Holly has to go do that? Oh, yeah. | 2 3 4 5 6 7 8 | A Q A | Are you in that situation? We're still in exceptional drought. We are not our local KSU report is 154-year average of rain, and we are below the 154-year average year to date. By? The 154-year average by the end of month is supposed to be 14 inches 14.6 inches, and I |
| 2 3 4 5 6 7 8 9 | A Q A Q A Q | going on. Making sure that the public is aware Yes. that, hey, listen, we're getting close. Is that fair? Yes, that's fair. So Holly has to go do that? Oh, yeah. Okay. So what happens if it continues to drop? | 2 3 4 5 6 7 8 9 | A Q A | Are you in that situation? We're still in exceptional drought. We are not our local KSU report is 154-year average of rain, and we are below the 154-year average year to date. By? The 154-year average by the end of month is supposed to be 14 inches 14.6 inches, and I believe today, I haven't seen the latest report, |
| 2 3 4 5 6 7 8 9 10 | A Q A Q A Q | going on. Making sure that the public is aware Yes. that, hey, listen, we're getting close. Is that fair? Yes, that's fair. So Holly has to go do that? Oh, yeah. Okay. So what happens if it continues to drop? Then it triggers other levels in our water | 2 3 4 5 6 7 8 9 | A Q A | Are you in that situation? We're still in exceptional drought. We are not our local KSU report is 154-year average of rain, and we are below the 154-year average year to date. By? The 154-year average by the end of month is supposed to be 14 inches 14.6 inches, and I believe today, I haven't seen the latest report, we actually had a little rain last night, but I |
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| 2 3 4 5 6 7 8 9 10 11 12 | A Q A Q A Q A | going on. Making sure that the public is aware Yes. that, hey, listen, we're getting close. Is that fair? Yes, that's fair. So Holly has to go do that? Oh, yeah. Okay. So what happens if it continues to drop? Then it triggers other levels in our water conservation plan. Okay. And then warnings and emergency, what are | 2 3 4 5 6 7 8 9 10 11 12 | A Q A | Are you in that situation? We're still in exceptional drought. We are not our local KSU report is 154-year average of rain, and we are below the 154-year average year to date. By? The 154-year average by the end of month is supposed to be 14 inches 14.6 inches, and I believe today, I haven't seen the latest report, we actually had a little rain last night, but I believe we're 12 1/2 so probably 2, a little over 2 inches of rain that we're short. |
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| July 2 | 1, 2023 | | Ŀа | wards County, Kansas & Kansas water Transfer Act |
|--|--|--|---------------------------------|--|
| | Page 633 | | | Page 635 |
| 1 A | Yes, they do. They can we have a tiered | 1 | | feet, is that what you're saying? |
| 2 | structure that | | Α | Yes, that's that's what I'm saying. |
| - 3 Q | | | Q | Okay. Let's scroll down, Jami, to the table at |
| 3 Q 4 | it up for you so that you can talk about it a | 4 | Q | the bottom of that page. |
| - 5 | little bit. I say I will, Jami will put it up | 5 | | And tell us what this table is telling us. |
| | for you. So, Mr. Crispin, this is | | | That is the water use minimum charge per month |
| 6 | • | | A | |
| 7 | Exhibit 1762 | 7 | | by meter size. So on the left side is the meter |
| | Uh-huh. | 8 | | size, which typically it's a five-eighths or a |
| 9 Q | | 9 | | three-fourths-inch meter for a resident, and it |
| 10 | outside city. | 10 | | shows what the inside city limit rates are and |
| 11 A | | 11 | | what the outside city limit rate is per month. |
| 12 Q | Do you recognize this document? | 12 | Q | So if I have a typical residential use and I |
| 13 A | | 13 | | have a five-eighths-inch meter, I'm going to pay |
| 14 Q | And it is? | 14 | | \$13 a month |
| 15 A | It shows the water rate structure for the City | 15 | Α | Correct. |
| 16 | of Hays. | 16 | Q | if I'm inside the city; I'm going to pay |
| 17 Q | All right, very good. So in the top paragraph, | 17 | | 22.07 outside the city? |
| 18 | it talks about, it says, water usage as shown on | 18 | A | Correct. |
| 19 | the January, February, and March billing is | 19 | Q | And the bigger the meter, the |
| 20 | averaged to determine a water use average for | 20 | - | Yes. |
| 21 | both residential and business accounts. | 21 | | So that is that figured in somehow with this |
| 22 A | | 22 | × | base rate that you were talking about? |
| 23 Q | | 23 | Δ | That's the minimum charge, and then the base |
| 23 Q 24 A | | 24 | Л | rate's based on 100 cubic foot after that |
| 24 A 25 | March water use and we average that, and then | 24 25 | | amount. |
| 20 | March water use and we average that, and then | 20 | | amount. |
| | Page 634 | | | Page 636 |
| 1 | that's applied to the base usage for the entire | 1 | Q | Okay. |
| 2 | year for that resident or that commercial | 2 | Α | Because the first 100 cubic foot is included in |
| 3 | property. | 3 | | that minimum charge. |
| 4 Q | | 4 | Q | All right. Let's go to the next page, Jami, |
| 5 | and they have less use less water, or a | 5 | - | please. |
| 6 | retiree, or something, lives alone or a couple, | 6 | | So this table shows that the first, what |
| 7 | they're going to be their base rate their | 7 | | you just said, the first 100 cubic feet how |
| 8 | usage in January, February, and March is going | 8 | | much is 100 cubic feet in gallons? |
| 9 | to be lower than | 9 | Δ | Times 7.48, 7500 gallons. |
| | Well | | | - |
| 10 A | | 10 | - | Roughly 7500? |
| 11 Q | | 11 | | Uh-huh. |
| | | | () | 7 7,400 something |
| 12 A | Absolutely, absolutely. | 12 | | - |
| 13 Q | And so that, then, is taken into account in | 13 | A | Yeah. |
| 13 Q 14 | And so that, then, is taken into account in in the rate structure? | 13 14 | A | Yeah. But it's, just for our purposes, 7500 gallons. |
| 13 Q | And so that, then, is taken into account in in the rate structure? It is. In that paragraph, it does mention that | 13 | A | Yeah. But it's, just for our purposes, 7500 gallons. So you get the first 7500 gallons free or not |
| 13 Q 14 | And so that, then, is taken into account in in the rate structure? It is. In that paragraph, it does mention that the water rate average shall be a minimum of | 13 14 | A | Yeah. But it's, just for our purposes, 7500 gallons. So you get the first 7500 gallons free or not free, it's included |
| 13 Q 14 15 A | And so that, then, is taken into account in in the rate structure? It is. In that paragraph, it does mention that | 13 14 15 | A Q | Yeah. But it's, just for our purposes, 7500 gallons. So you get the first 7500 gallons free or not free, it's included It's included in that charge? |
| 13 Q 14 15 A 16 | And so that, then, is taken into account in in the rate structure? It is. In that paragraph, it does mention that the water rate average shall be a minimum of 500 cubic feet. | 13 14 15 16 | A Q A | Yeah. But it's, just for our purposes, 7500 gallons. So you get the first 7500 gallons free or not free, it's included |
| 13 Q 14 15 A 16 17 18 Q | And so that, then, is taken into account in in the rate structure? It is. In that paragraph, it does mention that the water rate average shall be a minimum of 500 cubic feet. | 13 14 15 16 17 | A Q A | Yeah. But it's, just for our purposes, 7500 gallons. So you get the first 7500 gallons free or not free, it's included It's included in that charge? |
| 13 Q 14 15 A 16 17 | And so that, then, is taken into account in in the rate structure? It is. In that paragraph, it does mention that the water rate average shall be a minimum of 500 cubic feet. Okay. So this person living alone is going to have to pay for 500 cubic feet of water no | 13 14 15 16 17 18 | A Q A | Yeah. But it's, just for our purposes, 7500 gallons. So you get the first 7500 gallons free or not free, it's included It's included in that charge? but there's a minimum. So the base tier |
| 13 Q 14 15 A 16 17 18 Q 19 20 | And so that, then, is taken into account in in the rate structure? It is. In that paragraph, it does mention that the water rate average shall be a minimum of 500 cubic feet. Okay. So this person living alone is going to have to pay for 500 cubic feet of water no matter how much they use in January, February, | 13 14 15 16 17 18 19 20 | A Q A Q | Yeah. But it's, just for our purposes, 7500 gallons. So you get the first 7500 gallons free or not free, it's included It's included in that charge? but there's a minimum. So the base tier is the inside limit is \$2.71 and outside is \$4.59? |
| 13 Q 14 15 A 16 17 18 Q 19 20 21 | And so that, then, is taken into account in in the rate structure? It is. In that paragraph, it does mention that the water rate average shall be a minimum of 500 cubic feet. Okay. So this person living alone is going to have to pay for 500 cubic feet of water no matter how much they use in January, February, and March? | 13 14 15 16 17 18 19 20 21 | A Q A Q A | Yeah. But it's, just for our purposes, 7500 gallons. So you get the first 7500 gallons free or not free, it's included It's included in that charge? but there's a minimum. So the base tier is the inside limit is \$2.71 and outside is \$4.59? That's correct. |
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| 13 Q 14 15 A 16 17 18 Q 19 20 21 22 A 23 Q | And so that, then, is taken into account in in the rate structure? It is. In that paragraph, it does mention that the water rate average shall be a minimum of 500 cubic feet. Okay. So this person living alone is going to have to pay for 500 cubic feet of water no matter how much they use in January, February, and March? Correct, 'cause they pay the base rate. Right, okay. So then in that about | 13 14 15 16 17 18 19 20 21 22 23 | A Q A Q A Q A | Yeah. But it's, just for our purposes, 7500 gallons. So you get the first 7500 gallons free or not free, it's included It's included in that charge? but there's a minimum. So the base tier is the inside limit is \$2.71 and outside is \$4.59? That's correct. And so that first 100 cubic feet is included? Correct, in the \$13 charge. |
| 13 Q 14 15 A 16 17 18 Q 19 20 21 22 A | And so that, then, is taken into account in in the rate structure? It is. In that paragraph, it does mention that the water rate average shall be a minimum of 500 cubic feet. Okay. So this person living alone is going to have to pay for 500 cubic feet of water no matter how much they use in January, February, and March? Correct, 'cause they pay the base rate. | 13 14 15 16 17 18 19 20 21 22 | A Q A Q A Q A | Yeah. But it's, just for our purposes, 7500 gallons. So you get the first 7500 gallons free or not free, it's included It's included in that charge? but there's a minimum. So the base tier is the inside limit is \$2.71 and outside is \$4.59? That's correct. And so that first 100 cubic feet is included? |

| | Page 637 | | | |
|---|---|--|--|--|
| | Page 037 | | | Page 639 |
| 1 | the 2.71 times four and add it to 13 and that'd | 1 | Q | Have you reviewed it recently? |
| 2 | be their bill? | 2 | Α | We review it quite often, yes. |
| 3 A | That's correct. | 3 | Q | Have you reviewed it recently? |
| 4 Q | What happens if they go above 500 cubic feet? | | À | Yes. |
| 5 A | If you go above the 500 or your average, let's | 5 | Q | And it has drought response, water watch, water |
| 6 | say that that so that's your minimum or | 6 | ` | warning, water emergency right on the front |
| 7 | that's the average, anything up to 1,000 | 7 | | page? |
| 8 | cubic the next 1,000 cubic feet goes to the | 8 | Α | Correct. |
| 9 | conservation tier 1. And so that charge is | 9 | Q | Let's scroll down to where the rates are shown. |
| 10 | added to the bill for that extra usage. | 10 | ` | So I think, yeah, this is a little different |
| 11 Q | Okay. So I'm going if I'm living by myself, | 11 | | than your rate structure? This shows that a |
| 12 | I have to pay for 500 whether I use it or not, | 12 | | five-eighth-inch meter inside is \$9.18 but |
| 13 | but if I've got a big family and we use a lot of | 13 | | it's you just showed us the or I just |
| 14 | water, then I'm still going to pay 2.71 for | 14 | | showed you and it was 13 so |
| 15 | the until I go over that base rate? | 15 | | It's because that's that's a dated report, |
| 16 A | Yeah. | 16 | | and our current ordinance on our city website |
| 17 Q | Okay, very good. 2.71 per 100. So what is this | 17 | | shows the adopted rate. |
| 17 Q | conservation tier 2? And I note that there's a | 18 | | So let's go to paragraph or to Exhibit 817. |
| 19 | residential only and then a business and mixed | 19 | Q | Can you identify this document? |
| 20 | family, what's this conservation tier 2 rate? | 20 | ٨ | That's the 2007 municipal water conservation |
| 20 21 A | So after you exceed that first 1,000 cubic feet, | 20 | A | guidelines, it's put out by it was put out by |
| | anything over that first 1,000 cubic feet on top | 22 | | the Kansas Water Office in cooperation with some |
| 22 | of the minimum is the the tier 2 rating, the | 22 | | other state entities. |
| 23 24 | tier 2 costs, so it's an additional charge. | 23 24 | 0 | And are you familiar with this document? |
| 24 25 Q | So I pay 2.71 for my first 500, 13 plus 2.71 | | Q A | Yes, I am. |
| 25 Q | 30 1 pay 2.71 101 my mst 300, 15 plus 2.71 | 25 | A | 1 cs, 1 am. |
| | | | | |
| | Dogo 629 | | | Pogo 640 |
| | Page 638 | | | Page 640 |
| 1 | Page 638 times four, and then another 1,000 I pay at | 1 | Q | Page 640 Have you read reviewed it recently? |
| 1 2 | - | | Q A | - |
| | times four, and then another 1,000 I pay at | | À | Have you read reviewed it recently? |
| 2 | times four, and then another 1,000 I pay at 5.40, but above that I'm paying 10.82, right? | 2 | A Q | Have you read reviewed it recently? Yes, I reviewed it recently. |
| 2 3 A | times four, and then another 1,000 I pay at 5.40, but above that I'm paying 10.82, right? Uh-huh. | 2 3 | A Q | Have you read reviewed it recently? Yes, I reviewed it recently. And have you compared the requirements in the |
| 2 3 A 4 Q | times four, and then another 1,000 I pay at 5.40, but above that I'm paying 10.82, right? Uh-huh. Okay. And so it's what's this conservation | 2 3 4 | A Q | Have you read reviewed it recently?Yes, I reviewed it recently.And have you compared the requirements in the 2007 Kansas Municipal Water Conservation Plan |
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| 2 3 A 4 Q 5 6 7 A 8 9 10 11 Q 12 13 A 14 Q 15 A 16 17 Q 18 A 19 Q 20 21 A 22 | times four, and then another 1,000 I pay at 5.40, but above that I'm paying 10.82, right? Uh-huh. Okay. And so it's what's this conservation tier 2 water emergency, \$15, what's that all about? If we are in a water warning or a water emergency based on our water conservation plan, excess of the base charge would actually be the 15.01. Okay. So has this this rate is in effect now? Yes, it is. How long has it been in effect, if you know? I don't know that off the top of my head, I would have to see That's fine. if there's a date. That's fine. Let's go to Exhibit 820, please. Mr. Crispin, will you identify this document? This is our current water conservation plan and drought response plan that's been filed with the | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | A Q A Q A Q A Q A Q Q | Have you read reviewed it recently? Yes, I reviewed it recently. And have you compared the requirements in the 2007 Kansas Municipal Water Conservation Plan Guidelines that are in Exhibit 817 to your to Exhibit 820, the your current conservation plan? Yes, I have. And are they are you do you comply with the requirements Yes. in that plan? Has your conservation plan been approved by the Kansas Water Office? Yes, it was approved. Does the does your current conservation plan require the use of the Aquifer Health Index? No, it does not. So is that on top of Yes, we use that in in conjunction with to make sure that we're we understand the health of all of our sources. Jami, let's let's switch gears here and go to |

| | 1, 2023 | | Ed | • |
|--|--|--|--|--|
| | Page 641 | | | Page 643 |
| 1 | Ranch and other locations. Can you tell us | 1 | | labeled circle 3, and then it drops down and |
| 2 | what what that means, what soil samples are | 2 | | goes southwest down to sample 31, then back over |
| 3 | you talking about? | 3 | | to 11A samples, is that those were all on the |
| 4 A | At the end of April of this year, staff, we had | 4 | | ranch? |
| 5 | made a trip out, as a group, out to the ranch to | 5 | Δ | Yes, that is correct. |
| 6 | look at soil types in different areas within the | | Q | And those samples in the middle there, untilled |
| | property in the area, we wanted to kind of just | | Q | - |
| 7 | | 7 | | sample surface, there were a couple sample |
| 8 | take a look at what the soil makeup was. I've | 8 | | locations there? Yes. |
| 9 | seen it, I know what it looks like, but we | 9 | _ | |
| 10 | wanted to get some samples. | 10 (| Q | And was one taken where a circle had been and |
| 11 Q | And were you present when those samples were | 11 | | one where a circle that had never been broken |
| 12 | taken? | 12 | | out? |
| 13 A | I was. | 13 | A | Yeah, that's correct, we wanted to get areas |
| 14 Q | And did you participate in the collection of | 14 | | that different types of areas within |
| 15 | those samples? | 15 | | different locations within the ranch. |
| 16 A | I did, I dug some. I did I did dig and I | 16 (| Q | So did you collect you said that you dug some |
| 17 | helped collect samples. | 17 | | holes, did you take a sample, surface sample and |
| 18 Q | And so those samples came from the surface? | 18 | | a sample 18 or inches below? |
| 19 A | Some from the surface, some from, I believe, | 19 | A | I believe so on most occasions. |
| 20 | about 18 inches below surface. | 20 | Q | Okay. So do you have sample 30 the samples |
| 21 Q | And do you have those samples with you today? | 21 | | from 31 |
| 22 A | Yes, I do. | 22 | A | I can take a look. |
| 23 Q | And they're in the boxes sitting beside you on | 23 | Q | with you? |
| 24 | the | 24 | A | Oh, sorry. I'm going to turn these around |
| 25 A | Yes. | 25 | | 'cause it's kind of hard to see. |
| | | | | |
| | Page 642 | | | Page 644 |
| 1 Q | Let's take a look, Jami, at 2655, please. And I | 1 (| Q | If the city manager put them in the right place, |
| 2 | think that yeah, let's scroll down a page or | 2 | | it'd be easier for you. |
| 3 | two to the whole there you go. Let's look at | 3 | A | That would help. |
| | | | | |
| 4 | that. Can you zoom in just where the blue | 4 (| | Yeah. |
| 4 5 | that. Can you zoom in just where the blue is? All right, very good, thank you. | 4 (| Q | |
| 5 | is? All right, very good, thank you. | 4 (5 / | Q | I have two 31s, one's at the surface and this |
| 5 6 | is? All right, very good, thank you. So are these are these it looks like | 4 (| Q | I have two 31s, one's at the surface and this one's at the surface, and this one was 28 inches |
| 5 6 7 | is? All right, very good, thank you.So are these are these it looks likea T, I don't know, maybe it's something else, | 4 5 6 7 | Q A | I have two 31s, one's at the surface and this one's at the surface, and this one was 28 inches below the surface. |
| 5 6 7 8 | is? All right, very good, thank you.So are these are these it looks likea T, I don't know, maybe it's something else,but there are it looks like there are maybe | 4 5 6 7 8 | Q | I have two 31s, one's at the surface and this one's at the surface, and this one was 28 inches below the surface. And I asked you at the beginning whether you're |
| 5 6 7 8 9 | is? All right, very good, thank you.So are these are these it looks likea T, I don't know, maybe it's something else,but there are it looks like there are maybeone, two, three five or six sample locations? | 4 5 6 7 8 9 | Q A | I have two 31s, one's at the surface and this one's at the surface, and this one was 28 inches below the surface. And I asked you at the beginning whether you're a soil scientist or a geologist or an engineer |
| 5 6 7 8 9 10 A | is? All right, very good, thank you. So are these are these it looks like a T, I don't know, maybe it's something else, but there are it looks like there are maybe one, two, three five or six sample locations? I believe so. I know that one in the middle is | 4 (5 / 6 7 8 (9 10 | Q A Q | I have two 31s, one's at the surface and this one's at the surface, and this one was 28 inches below the surface. And I asked you at the beginning whether you're a soil scientist or a geologist or an engineer and you said you're not? |
| 5 6 7 8 9 10 A 11 | is? All right, very good, thank you. So are these are these it looks like a T, I don't know, maybe it's something else, but there are it looks like there are maybe one, two, three five or six sample locations? I believe so. I know that one in the middle is kind of hard to see 'cause it looks like it's | 4 (5 / 6 7 8 (9 10 11 / | Q A Q | I have two 31s, one's at the surface and this one's at the surface, and this one was 28 inches below the surface. And I asked you at the beginning whether you're a soil scientist or a geologist or an engineer and you said you're not? No, I'm not. |
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| 5 6 7 8 9 10 11 12 13 Q 14 A 15 16 17 18 19 20 21 Q 22 | is? All right, very good, thank you. So are these are these it looks like a T, I don't know, maybe it's something else, but there are it looks like there are maybe one, two, three five or six sample locations? I believe so. I know that one in the middle is kind of hard to see 'cause it looks like it's overlapped, but yeah. Who prepared this document? I prepared that. When getting onto the property, I cannot recall the app I used on my phone, but it may have been Google Maps, or something, but it shows a start, where we started it, those are the locations I drove to, and then each pin is a GPS coordinate of where we took a sample. Okay. So you took and it's hard to see, but | 4 (5 4 9 10 11 4 12 0 13 14 15 4 16 17 0 18 4 19 20 21 0 22 4 | Q A Q A Q A Q A Q A | I have two 31s, one's at the surface and this one's at the surface, and this one was 28 inches below the surface. And I asked you at the beginning whether you're a soil scientist or a geologist or an engineer and you said you're not? No, I'm not. So you don't I mean, I'm not asking you to you know, what that soil is, but what's it look like to you as a layperson? Well, they look this one's a little bit darker, this one kind of to me looks like sand. Yeah. That one was taken the 28 inches deep. This does have quite a bit of sand in it, it is a little bit darker, but this was the surface. Okay. |
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| Edw | var | ds County, Kansas & Kansas Water Transfer Act | | | July 21, 2023 |
|--|---------------------------------|--|--|--|---|
| | | Page 645 | | | Page 647 |
| 1 | | this exhibit will give us a better idea of | 1 | | little bit of moisture in it. |
| 2 | | Okay. So circle 3 west by the river, do | | Q | Okay. Very good. |
| 3 | | you have those samples? | | A | But it looks sandy. |
| 4 | Δ | Yeah, I have one that's a surface sample and | | Q | Let's look at 1705, please. This might be |
| 5 | п | then this one is 20 inches deep. | 5 | - | does this better depict kind of where those |
| | Q | And are they significantly different than the | 6 | | samples were taken? |
| 7 | Q | samples that you've from the other area? | | Α | Yeah, those I believe that I did not make |
| 8 | ٨ | Not really, these are a little bit closer to the | 8 | A | the map, but I believe the coordinates, the GPS |
| 。 9 | A | color of this one, but they're both somewhat | 9 | | coordinates are the exact locations based on |
| 10 | | sandy, with a little bit of soil mixed in, a | 10 | | what I provided. |
| 11 | | little bit darker. | | Q | You provided the coordinates |
| | 0 | | 12 | - | Yes. |
| 12 | | Okay. | | | |
| 13 | | But one was surface, one was 20 inches deep. | 13 14 | - | the GPS coordinates from your iPhone? |
| 14 | Q | Okay. So let's go to the next location that | | | Yes. |
| 15 | | makes sense. So sample untilled sample | 15 | Q | And it wasn't a fancy, you know, \$5,000 |
| 16 | | surface in jar, it says. Or sample 12, you can either one? | 16 | Α | instrument No. |
| 17 | | | | | |
| 18 | | They were 12? | | Q | so we're not saying it's precise but it's close? |
| 19 | - | The 12 is fine. | 19 | | |
| 20 | A | Oh, okay. These are this is circle 12, and | | | Yes, correct. |
| 21 | | it's at the surface, and it's it's darker as | | Q | So of these samples, 31, 11A, 12, and untilled |
| 22 | | well, but it's quite sandy, with some soil | 22 | | near 12 and circle 3, those are the sample |
| 23 | | worked in there. And then also this is the same | 23 | | locations on the ranch that that you've just |
| 24 | | area, but it's 28 inches deep and it's very | 24 | | shown us? |
| 25 | | similar. | 25 | Α | Yes, correct. |
| | | Page 646 | | | Page 648 |
| - | 0 | Okay Again I'm not asking you to alogsify | - | 0 | And door this man this man shows the outside |
| | Q | Okay. Again, I'm not asking you to classify soils. What about the untilled sample surface | 2 | Q | And does this map this map shows the outside boundaries of the R9 Ranch? |
| 2 3 | | - | 4 | | |
| 4 | | | 2 | | |
| | | in jar, I don't know whether how that what | - | A | That is correct. |
| | ٨ | that exactly means but | 4 | | That is correct. So each of the samples that you have in front of |
| | A | that exactly means but These this is untilled hilly area, it was in | 4 5 | A Q | That is correct. So each of the samples that you have in front of you are samples, soil samples from various |
| 6 | A | that exactly means but These this is untilled hilly area, it was in a hilly area, I remember where we were because | 4 5 6 | A Q | That is correct. So each of the samples that you have in front of you are samples, soil samples from various locations someplace on the ranch? |
| 6 7 | A | that exactly means but These this is untilled hilly area, it was in a hilly area, I remember where we were because you could kind of look down and see other | 4 5 6 7 | A Q A | That is correct. So each of the samples that you have in front of you are samples, soil samples from various locations someplace on the ranch? Yes, that's correct. |
| 6 7 8 | | that exactly means but These this is untilled hilly area, it was in a hilly area, I remember where we were because you could kind of look down and see other things, but this one's 26 inches deep. | 4 5 6 7 8 | A Q A | That is correct. So each of the samples that you have in front of you are samples, soil samples from various locations someplace on the ranch? Yes, that's correct. Let's go to 2654, please. And, Mr. Crispin, |
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- 24 A And then I have 25 inches deep, and that one's
- kind of clumped together; it may have had a

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24

ranch?

25 A Yes.

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| | | | ••••••• | | | - |
| | | | · · · | | | • • |
| | | | | | A | I believe that is a map that it shows different |
| | | | · · · · · · · · · · · · · · · · · · · | | | r |

| Edwa | rds County, Kansas & Kansas Water Transfer Act | | July 21, 2023 |
|--|--|---|---|
| | Page 653 | | Page 655 |
| - | zones in the area, and I believe it shows | 1 4 | Yes. |
| 1 | zones in the area, and I believe it shows it's an area near the ranch. | 1 A | |
| 2 | | 2 Q | |
| 3 Q | | 3 4 A | when these two samples were collected? |
| 4 | 33 from the Balleau groundwater model report | | I was. |
| 5 A | Okay. | 5 Q | Did you did you collect them? |
| 6 Q | that was prepared back in the day. | 6 A | I participated in collecting them, yes. |
| 7 | Jami, can you zoom in on | 7 Q | All right. And tell tell us about those. |
| 8 | I'll represent that's the base map; this | 8 A | 1 1/ |
| 9 | map is not in the Balleau report but the base | 9 | this is the surface, and it's quite darker than |
| 10 | map is. | 10 | all the other all the other samples. |
| 11 | Can you zoom in on the ranch area, please. | 11 Q | |
| 12 | On on superimposed on the base map | 12 A | · · |
| 13 | prepared by Balleau is the outline of the ranch, | 13 | bit when you shake it, it's a lot heavier. |
| 14 | correct? | 14 Q | |
| 15 A | · · · · · | 15 A | Could be wet. And then this one was taken at |
| 16 Q | | 16 | the same location, but this one was 18 inches |
| 17 | 16 and the other is 17, what are those | 17 | deep. |
| 18 | locations? | 18 Q | |
| 19 A | • | 19 A | • • • |
| 20 | of our property. | 20 | again, I'm not the expert, but I don't see a lot |
| 21 Q | And were they obtained the same day as the | 21 | of sand or really anything. To me it's just |
| 22 | earlier soil samples? | 22 | like just regular soil. |
| 23 A | No, I don't believe so. | 23 Q | Okay. So what about the sample at location 17? |
| 24 Q | So if I were to tell you that the earlier | 24 A | Those would be very similar too, they're dark |
| 25 | samples, you said late April, I'm going to if | 25 | compared to the others. That this one is not |
| | | | |
| | Page 654 | | Page 656 |
| 1 | - | 1 | - |
| 1 2 | I said April 24th, 2023, would that for the | 1 2 | as full as those are. That one was the surface, |
| | I said April 24th, 2023, would that for the earlier samples? | 2 | as full as those are. That one was the surface, and then this one was 18 inches deep also. |
| 2 | I said April 24th, 2023, would that for the earlier samples? For the main all the main ones, yes, for the | | as full as those are. That one was the surface, and then this one was 18 inches deep also. |
| 2 3 A 4 | I said April 24th, 2023, would that for the earlier samples? For the main all the main ones, yes, for the ones that you showed earlier, yes. | 2 3 Q 4 | as full as those are. That one was the surface, and then this one was 18 inches deep also. Okay. So did you take photographs or record the GPS locations of |
| 2 3 A | I said April 24th, 2023, would that for the earlier samples? For the main all the main ones, yes, for the ones that you showed earlier, yes. And didn't you collect did you collect | 2 3 Q 4 5 A | as full as those are. That one was the surface, and then this one was 18 inches deep also. Okay. So did you take photographs or record the GPS locations of Yeah, we did I did the |
| 2 3 A 4 5 Q | I said April 24th, 2023, would that for the earlier samples? For the main all the main ones, yes, for the ones that you showed earlier, yes. And didn't you collect did you collect samples at those locations 16 and 17 as shown in | 2 3 Q 4 5 A | as full as those are. That one was the surface, and then this one was 18 inches deep also. Okay. So did you take photographs or record the GPS locations of Yeah, we did I did the Let me finish. Like you did the others? |
| 2 3 A 4 5 Q 6 | I said April 24th, 2023, would that for the earlier samples? For the main all the main ones, yes, for the ones that you showed earlier, yes. And didn't you collect did you collect samples at those locations 16 and 17 as shown in this map? | 2 3 Q 4 5 A 6 Q 7 A | as full as those are. That one was the surface, and then this one was 18 inches deep also. Okay. So did you take photographs or record the GPS locations of Yeah, we did I did the Let me finish. Like you did the others? Yes, correct. |
| 2 3 A 4 5 Q 6 7 8 A | I said April 24th, 2023, would that for the earlier samples? For the main all the main ones, yes, for the ones that you showed earlier, yes. And didn't you collect did you collect samples at those locations 16 and 17 as shown in this map? I did, correct. | 2 3 Q 4 5 A 6 Q 7 A | as full as those are. That one was the surface, and then this one was 18 inches deep also. Okay. So did you take photographs or record the GPS locations of Yeah, we did I did the Let me finish. Like you did the others? Yes, correct. You were going to go on or not? |
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|--|-----------------------|---|--|---|--|
| | | Page 657 | | | Page 659 |
| 1 | | yes, it is. | 1 | A | If we had a resident outside of the city limits. |
| 2 | Q | And the one on the 17 was collected in it | 2 | Q | That seems a little like an oxymoron. |
| 3 | - | isn't zone 9? | 3 | - | MR. TRASTER: I can't hear, I'm |
| 4 | Α | I think it is outside of the zone, yes. | 4 | | sorry, it seems what? |
| 5 | | MR. TRASTER: Just one minute. | 5 | B | Y MR. LEE: |
| 6 | | PRESIDING OFFICER: Sure. | 6 | - | Seems like a little like an oxymoron. The |
| 7 | B | Y MR. TRASTER: | 7 | × | when you say a resident outside the city limits, |
| 8 | 0 | Mr. Crispin, thank you for your time. | 8 | | what does that mean? |
| | Ă | Thank you. | | Α | It could be a homeowner on the outside of our |
| 10 | | Oh, you're not done. | 10 | 11 | city limits that may be right outside our |
| 11 | - | Oh, J know. I'll stay. | 11 | | boundary. |
| 12 | A | PRESIDING OFFICER: Does that mean | | | - |
| | | | 12 | - | Okay. Well, I guess just a couple of quick |
| 13 | | you're done with your questions, though, | 13 | | questions. Are you saying that, to your |
| 14 | | Mr. Traster? | 14 | | knowledge, Hays is not selling to any customer |
| 15 | | MR. TRASTER: What's that? | 15 | | presently outside the city limits? |
| 16 | | PRESIDING OFFICER: You are done? | 16 | | |
| 17 | | MR. TRASTER: No further questions, | 17 | | not known of any new additions in my time. |
| 18 | | I'm sorry. | 18 | Q | Okay. And so the City would have the authority |
| 19 | | PRESIDING OFFICER: Okay, thank you. | 19 | | to quit selling to any customer outside the city |
| 20 | | MR. COLE: I have no questions, | 20 | | limits if it chose, would it not? |
| 21 | | thank you. | 21 | Α | I would have to read the ordinance, I'm not |
| 22 | | PRESIDING OFFICER: Mr. Lee? | 22 | | aware. |
| 23 | | MR. LEE: Well, Your Honor, this | 23 | Q | Okay. And how many customers outside the city |
| 24 | | won't take very long. | 24 | | limits take city water? |
| 25 | | PRESIDING OFFICER: All right. | 25 | A | I would have to get that information. I don't |
| | | | | | |
| | | Page 658 | | | Page 660 |
| 1 | | Page 658 CROSS-EXAMINATION | 1 | | Page 660 have that. |
| 1 2 | B | - | | Q | |
| 2 | | CROSS-EXAMINATION Y MR. LEE: | 2 | | have that. |
| 2 3 | | CROSS-EXAMINATION Y MR. LEE: Mr. Crispin, good morning. | 2 3 | Q | have that.What's the volume, if you know?I don't know at this point. |
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| | Page 66 | 1 | | Page 663 |
| 1 | Looks like we are done with your questions, | 1 | Q | Please state your title and specialty. |
| 2 | then, Mr. Crispin, so thank you. | | À | My title is senior associate geological |
| 3 | THE WITNESS: Thank you. | 3 | | engineer, and I specialize in hydrogeology. |
| 4 | PRESIDING OFFICER: I guess what are | 4 | Q | Are you a licensed professional engineer? |
| 5 | you thinking for your next witness and | | À | Yes, in Missouri, Kansas, Iowa, Nebraska, and |
| 6 | amount of time, I'm just wondering at what | 6 | | South Dakota. |
| 7 | point we should take some sort of break | 7 | Q | Did you offer direct testimony filed in this |
| 8 | here? It would be a little early lunch if | 8 | - | matter on May 29, 2023 titled Direct Testimony |
| 9 | we broke now, but that might be better than | 9 | | of Paul McCormick on Behalf of the Cities of |
| 10 | waiting an hour and a half or | 10 | | Hays and Russell, Kansas Relating to the |
| 11 | MR. TRASTER: I'll leave that up to | 11 | | Wellfield Yield for the City Cities of Hays |
| 12 | Mr. Buller, this next witness is his so | 12 | | and Russell, Kansas? |
| 13 | MR. BULLER: So we're going to be | 13 | Α | Yes, I did. |
| 14 | calling Paul McCormick next. Paul has two | 14 | Q | Have you had a chance to review those documents |
| 15 | expert reports. One of them, I suspect, | 15 | - | prior to your appearance here today? |
| 16 | but don't know will be quicker than the | | Α | Yes, I did. |
| 17 | other and so we can present Paul and the | 17 | Q | As you sit here, do you have any changes or |
| 18 | shorter expert report, maybe get that done | 18 | - | corrections to make to those documents? |
| 19 | before lunch, maybe not, but we could forge | 19 | Α | No, I do not. |
| 20 | ahead with him as far as I'm concerned. | 20 | Q | If I asked you the same questions today as |
| 21 | PRESIDING OFFICER: All right. | 21 | | appear in your prefiled testimony, would your |
| 22 | MR. LEE: That's fine with us, Your | 22 | | answers and opinions remain the same? |
| 23 | Honor. | 23 | Α | Yes, they would. |
| 24 | PRESIDING OFFICER: Okay. | 24 | | MR. BULLER: Your Honor, at this |
| 25 | MR. BULLER: The City calls Paul | 25 | | time I would move to admit the prefiled |
| | | | | |
| | Page 66 | 2 | | Page 664 |
| 1 | McCormick, City of Hays calls Paul | 1 | | testimony of Mr. McCormick relating to his |
| 2 | McCormick. | 2 | | wellfield yield report and direct testimony |
| 3 | PRESIDING OFFICER: All right. | 3 | | into the record, which I understand has |
| 4 | Mr. McCormick, I'll need to swear you in, | 4 | | already been contingently admitted but |
| 5 | would you please raise your right hand. | 5 | | would ask if there are any would ask |
| 6 | | 6 | | that it be admitted. |
| 7 | PAUL A. MCCORMICK, | 7 | | PRESIDING OFFICER: All right. |
| 8 | having first duly sworn or affirmed, was | 8 | | MR. BULLER: And that would be |
| 9 | examined and testified as follows: | 9 | | Exhibit 2828, Cities' Exhibit 2828. |
| 10 | | 10 | | PRESIDING OFFICER: Okay. |
| 11 | PRESIDING OFFICER: Go ahead, | 11 | | MR. LEE: Your Honor, no objection |
| 12 | Mr. Buller. | 12 | | from Water PACK and Edwards County. |
| 13 | MR. BULLER: And we will go through | 13 | | PRESIDING OFFICER: All right. And |
| 14 | the simple questions, Your Honor, and that | 14 | | just for clarification, you indicated this |
| 15 | will be it for direct examination. And | 15 | | was filed on May 29th, and I guess I'm |
| 16 | we'll begin with Mr. McCormick's wellfield | 16 | | showing that it was filed in our E-file |
| 17 | yield report, Y-I-E-L-D. | 17 | | system on May 30th, not a big deal but |
| 18 | | 18 | | MR. BULLER: Your Honor, I believe |
| 19 | DIRECT EXAMINATION | 19 | | we submitted it on May 29th, and maybe the |
| 20 I | BY MR. BULLER: | 20 | | file stamp didn't happen until the next |
| 21 Q | | 21 | | day, unless I'm mistaken, but we I know |
| 22 A | | 22 | | we submitted it on the deadline and not |
| 23 Q | | 23 | | after the deadline, and I think the |
| 24 A | o o , | 24 | | deadline was May 29. |
| 25 | Parkway, Kansas City, Missouri 64114. | 25 | | PRESIDING OFFICER: All right. |
| 1 | | | | |

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| | Page 66 | 5 | Page 667 |
| 1 | That's fine. I want to make sure that | 1 | contained within the scope of each |
| 2 | we're identifying things properly there | 2 | respective report. |
| 3 | so okay. And there's no objection, so | 3 | PRESIDING OFFICER: Okay. Mr. Lee, |
| 4 | that will be admitted. And then do you | 4 | do you have any problem with kind of |
| 5 | have additional questions you need to ask | 5 | addressing each of them separate? I'm all |
| 6 | him on direct examination before you tender | 6 | for keeping the record as clear as possible |
| 7 | for cross? | 7 | 'cause, you know, I given what's |
| 8 | MR. BULLER: My understanding, Your | 8 | involved here, I'm speculating whatever |
| 9 | Honor, is that I'm not supposed to ask any | 9 | happens, one side may end up appealing, and |
| 10 | substantive questions at this time. I | 10 | even if it goes past an appeal to the water |
| 11 | would offer Mr. McCormick to respond to any | 11 | transfer panel, anything that would go out |
| 12 | questions you might have at this time. | 12 | to the court for judicial review, we just |
| 13 | PRESIDING OFFICER: All right. I do | 13 | need to make sure everything is as clear as |
| 14 | not have any questions, so we'll see if the | 14 | possible in the record. So whatever we can |
| 15 | other parties | 15 | do to make that record as complete and |
| 16 | MR. BULLER: Thank you. | 16 | clear as possible would be my preference. |
| 17 | PRESIDING OFFICER: have anything | 17 | MR. LEE: I appreciate that, Your |
| 18 | to ask. | 18 | Honor, and I'm just looking here I |
| 19 | MR. BULLER: The witness is | 19 | think, Your Honor, the questions that I |
| 20 | available for cross-examination. | 20 | have almost entirely relate to the |
| 21 | MR. COLE: The City of Russell has | 21 | un-admitted report at this moment so we |
| 22 | no questions. | 22 | would simply pass him for cross-examination |
| 23 | PRESIDING OFFICER: Mr. Lee? | 23 | in relation to this report. |
| 24 | MR. LEE: Thank you, Your Honor. | 24 | PRESIDING OFFICER: Okay. So with |
| 25 | Mr. McCormick, good morning. | 25 | that, then, do you want to move on to the |
| | Page 66 | 6 | Page 668 |
| 1 | THE WITNESS: Good morning. | 1 | next report then? |
| 2 | MR. LEE: My name is Charles Lee, I | 2 | MR. BULLER: Your Honor, in light of |
| 3 | have you've been sitting here, I think, | 3 | the time and the apparent certainty of |
| 4 | throughout so I suspect you know that at | 4 | Mr. Lee's cross-examination, it might make |
| 5 | this point. So I have really just a few | 5 | sense to break for an early lunch and |
| 6 | questions for you, and it may overlap | 6 | resume Mr. McCormick's testimony after we |
| 7 | between your two reports, frankly, but, | 7 | come back, if that works for the Court. |
| 8 | Your Honor, per Mr. Buller's information, | 8 | PRESIDING OFFICER: That will work, |
| 9 | we're not going to object to admission of | 9 | why don't we come back at 1:00 o'clock, |
| 10 | the other report. So to the extent that I | 10 | we'll pick up at 1:00 o'clock, we'll go |
| 11 | may ask you about something that overlaps | 11 | back on the record then and go through the |
| | | | |

13 issue for you. 14 MR. BULLER: Your Honor, I would say 15 that we offered the direct testimony of Mr. McCormick relating to the wellfield 16 17 yield report; we've intentionally kept that 18 separate from the groundwater model report. 19 If it would be convenient for the Court 20 to -- for us to admit them both together, we can, but that wouldn't be our 21 22 preference, we would prefer to address both 23 separately in order to, we think, make 24 Mr. McCormick's testimony clearer and more

those two reports, hopefully that's not an

25 concise and ensure that the questioning is

back on the record then and go through the formalities of admitting his prefiled

testimony for that second report on the record and then we'll go to cross-examination.

MR. BULLER: Sounds great, thank you, Your Honor.

PRESIDING OFFICER: Okay. Thank you, everybody, we will adjourn until 1:00 p.m.

(Thereupon, a lunch recess was taken; whereupon the following was had.)

PRESIDING OFFICER: Let's go ahead

and go back on the record now, it looks

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| | | Page 669 | | | Page 671 |
| 1 | | like we have everybody back in the room, | 1 | | now. |
| 2 | | and we'll move on. And I believe, | 2 | | PRESIDING OFFICER: No problem. |
| 3 | | Mr. Buller, you're going to address the | 3 | _ | Y MR. BULLER: |
| 4 | | second report. And I guess also for | _ | Q | |
| 5 | | clarification, this will be the, I believe | 5 | - | filed on May 30, 2023, and you are the author of |
| 6 | | it was 73 pages and not the 400-page one; | 6 | | that report that we discussed before lunch, |
| 7 | | is that correct? | 7 | | correct? |
| 8 | | MR. BULLER: That is correct, Your | | Α | |
| 9 | | Honor, this will be the groundwater model | 9 | | |
| 10 | | report. The previous one was the wellfield | 10 | - | Ranch modeling results summary was filed on |
| 11 | | yield report. | 11 | | May 29, 2023, and you are the author of that |
| 12 | | PRESIDING OFFICER: All right. All | 12 | | report, correct? |
| 13 | | right. Go ahead and you're still under | | Α | • |
| 14 | | oath, Mr. McCormick, so | - | Q | |
| 15 | | THE WITNESS: Yes, sir. | 15 | - | prior to your appearance here today? |
| 16 | B | Y MR. BULLER: | | Α | |
| 17 | ~ | Good afternoon, Mr. McCormick, thanks for | | Q | |
| 18 | × | joining us. Please state your name for the | 18 | - | corrections to make to those documents? |
| 19 | | record. | - | Α | |
| | Α | | | Q | , |
| | Q | Please state your employer and work address. | 21 | - | in your prefiled testimony, would your answers |
| | À | Burns & McDonnell Engineering, 9400 Ward Parkway | 22 | | and opinions remain the same? |
| 23 | | Kansas City, Missouri 64114. | | Α | _ |
| | Q | Mr. McCormick, if you could scoot up a little | 24 | | MR. BULLER: Your Honor, at this |
| 25 | ` | bit closer to the microphone, I would appreciate | 25 | | time I would move to admit the prefiled |
| | | | | | L |
| | | Page 670 | | | Page 672 |
| 1 | | it, thank you. | 1 | | testimony of Mr. McCormick into the record |
| | Α | Sure. | 2 | | relating to the R9 Ranch modeling results |
| 3 | Q | Please state your title and specialty. | 3 | | summary. |
| 4 | A | My title is senior associate geological | 4 | | PRESIDING OFFICER: All right. Any |
| 5 | | engineer, and my specialty is hydrogeology. | 5 | | objections? |
| 6 | Q | Are you a licensed professional engineer? | 6 | | MR. LEE: No objections from Water |
| 7 | Α | Yes, in Missouri, Kansas, Iowa, Nebraska, and | 7 | | PACK or Edwards County, Your Honor. |
| 8 | | South Dakota. | 8 | | PRESIDING OFFICER: All right, thank |
| 9 | Q | Did you author direct testimony filed in this | 9 | | you, it will be admitted. So at this point |
| 10 | | matter on May 29, 2023 titled Direct Testimony | 10 | | is Mr. McCormick available for |
| 11 | | of Paul McCormick, P.E. on Behalf of the Cities | 11 | | cross-examination on his testimony from |
| 12 | | of Hays and Russell, Kansas Relating to R9 Ranch | 12 | | that prefiled testimony? |
| 13 | | Modeling Results Summary? | 13 | | MR. BULLER: He is, Your Honor, and |
| 14 | Α | Yes, I did. | 14 | | just for the record, that the report we |
| 15 | | MR. BULLER: And I understand that | 15 | | are referring to is the Cities' |
| 16 | | that particular filing may have been file | 16 | | Exhibit 2828. Okay. Correction, for the |
| 17 | | stamped on May 30th, 2023, for the record. | 17 | | record, the modeling report that |
| 18 | | PRESIDING OFFICER: Yes, and I guess | 18 | | Mr. McCormick is now addressing is Cities' |
| 19 | | for the record, that initial schedule that | 19 | | Exhibit 2827. I apologize. The witness is |
| 20 | | we put out that was the one parties had | 20 | | available for cross-examination. |
| 21 | | agreed to, May 29th was the date that was | 21 | | MR. COLE: City of Russell has no |
| 22 | | on there, but that was actually a holiday | 22 | | questions. |
| 23 | | so it rolled everything to May 30th, then. | 23 | | PRESIDING OFFICER: Thank you, |
| 24 | | MR. BULLER: Thank you, Your Honor. | 24 | | Mr. Cole. Mr. Lee? |
| 25 | | So I will correct the record briefly right | 25 | | MR. LEE: Thank you, Your Honor. |
| | | | | | |

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| | Page 673 | | | Page 675 |
| 1 | CROSS-EXAMINATION | 1 | | there may not be relevance, but I |
| | Y MR. LEE: | 2 | | understand your point as well, Mr. Lee, |
| 3 Q | Mr. McCormick, since it's Friday I won't | 3 | | that you just want to kind of establish |
| 4 4 | introduce myself again. Up on the screen is | 4 | | where he is, is he down here on the level, |
| 5 | what I think is a quote from your direct | 5 | | is he up here and where everything plays |
| 6 | testimony which says that I am a senior | 6 | | out on the totem pole there. |
| 7 | associate geological engineer with Burns & | 7 | | MR. LEE: Thank you, Your Honor. |
| 8 | McDonnell Engineering Company, which is from | 8 | | MR. BULLER: Thank you. |
| 9 | page 2 of your testimony. A few questions about | | A | |
| 10 | that, what is a senior associate geological | 10 | 11 | head of the water group. |
| 11 | engineer in the hierarchy at Burns & McDonnell? | 11 | B | Y MR. LEE: |
| 12 A | Chief peon. | | 0 | And are there people that you report to |
| 13 Q | I feel ya. | 13 | - | directly? |
| 13 Q 14 A | I've been there a few years, so it's just a a | 14 | | Yes. |
| 15 A | ranking level of of seniority of number of | 15 | | And who would that be? |
| 16 | years you've worked, that sort of thing. | 16 | | I report directly to Rachelle Lowe, she approves |
| 10 17 Q | And in terms of obviously it's an engineering | 17 | 11 | my time sheets and things like that. She |
| 17 Q 18 | firm, but in terms of engineers at Burns & | 18 | | reports to our engineering director, Kerrie |
| 10 19 | McDonnell, where is that in the hierarchy? | 19 | | Greenfelder. Kerrie reports to, I can't think |
| 20 A | It's pretty senior. | 20 | | of his exact title, but Darin Brickman, who then |
| 20 A 21 Q | Okay. And who is senior to you at Burns & | 21 | | reports to Ron Coker. |
| 21 Q 22 | McDonnell? In terms of title? | 22 | 0 | Okay, that's helpful. The second |
| 23 A | The managing directors, the vice-presidents, | 23 | | I have no managerial or personnel management |
| 23 A 24 | principals, most people. | 24 | | duties whatsoever, I'm purely technical. |
| 25 Q | Okay. In terms of the well, let me ask a | 25 | - | Okay. In terms of preparing your report, was |
| x | Skuj. In terms of the wen, let ne ask a | | × | onaji in tornis of proparing your report, was |
| | Page 674 | | | Page 676 |
| 1 | better question: You are, I assume, in some | 1 | | there a reviewer? |
| 2 | form or some category of an engineering | | Α | Yes. |
| 3 | department at Burns & McDonnell? | | Q | And who was that? |
| 4 A | Yes, I am. | | À | Daniel Clement helped me with review, Brian |
| 5 Q | And what is that department or category called? | 5 | | Meier helped with review, and that was it for |
| 6 A | We're in the water group. | 6 | | the summary report. |
| 7 Q | Okay. | - | Q | Were you the principal drafter? |
| 8 A | And the hydrogeology group within the water | | À | I was the principal drafter. |
| 9 | group. | | Q | Okay. So looking at and can you see this? |
| 10 Q | Okay. And who is the the person who is the | 10 | - | Yes, I can. |
| -• < 11 | top of the hierarchy in the water group? | 11 | | Okay. Looking at the screen, then, |
| 12 | MR. BULLER: Objection, Your Honor, | 12 | - | Mr. McCormick, it goes on to say in your direct |
| 13 | how is this relevant to Mr. McCormick's | 13 | | testimony at page 5 that it was determined in |
| 14 | opinions in this matter? | 14 | | consultation with the chief engineer that the |
| 15 | PRESIDING OFFICER: Do you have a | 15 | | increases and decreases described above were, in |
| 16 | response before I | 16 | | quotes, reasonable, as those fluctuations are |
| 17 | MR. LEE: Well, Your Honor, I think | 17 | | less than 1 percent of the average saturated |
| 18 | that background information about any | 18 | | thickness of the aquifer on the ranch. So kind |
| 19 | witness is something that we always go | 19 | | of backing up, in relation to that statement, |
| 20 | through and I think it provides context. | 20 | | what is the average saturated thickness of the |
| 21 | PRESIDING OFFICER: Okay. I | 21 | | aquifer? |
| 22 | understand your point, Mr. Buller, I'm | 22 | | At the ranch? |
| 23 | going to overrule the objection, though, | 23 | | What is it in concept? |
| 23 24 | I'll let him explore that a little bit. | 24 | | About 100 feet on average across the ranch. |
| 25 | We're not going to go too far on it because | 25 | | Okay. And so when you talk about in your |
| | | 2.5 | X | Shap. The so when you tak about in you |
| | | | | |

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|--|---|--|---|--|
| | | Page 677 | | Page 679 |
| 1 | | opinion that the fluctuations are less than | 1 | Burns & Mac, myself, Brian Meier, Daniel |
| 1 | | 1 percent, what does that mean in terms of | 2 | Clement, David Barfield was there, I believe |
| 2 | | actual fluctuations in terms of feet or | | |
| 3 | | however whatever metric that is? | 3 | Chris Beightel attended one meeting, I'm not |
| 4 | | | 4 | sure. Sam Perkins, their modeler, attended, I |
| | Α | Well, the water level fluctuates | 5 | believe I remember him at one, at least one |
| 6 | | MR. BULLER: Objection, what page of | 6 | meeting. And I honestly couldn't tell you who |
| 7 | | the report is this? | 7 | else was at all the meetings. |
| 8 | | MR. LEE: It's direct, his direct | 8 Q | • |
| 9 | | testimony. | 9 | have been just Burns & McDonnell personnel and |
| 10 | | MR. BULLER: At page 5 or | 10 | Kansas Department of Agriculture personnel? |
| 11 | | paragraph 5? | 11 A | i i <i>i</i> |
| 12 | | MR. LEE: Page 5. | 12 | to see the a list of who attended, but that's |
| 13 | | MR. BULLER: Thank you. | 13 | sort of my recollection is that's who was at the |
| 14 | Α | Well, 1 percent of 100 would be 1 foot, plus or | 14 | meetings. |
| 15 | | minus 1 foot. | 15 Q | • |
| 16 | B | Y MR. LEE: | 16 | those meetings? |
| 17 | Q | Okay. Well, I get that. In terms of its | 17 A | ð ð í |
| 18 | | application to the aquifer that you're referring | 18 | can't say for sure that I do. |
| 19 | | to, is it possible to quantify that? | 19 Q | Was it your practice in taking notes to show who |
| 20 | Α | Could you clarify your question, please, I'm not | 20 | the attendees were? |
| 21 | | sure I follow you. | 21 A | I can't say that I took minutes at the meetings, |
| 22 | Q | Sure. If you're talking about fluctuations are | 22 | which would include a list of attendees. |
| 23 | | less than 1 percent of the average, is that | 23 Q | So it sounds to me, Mr. McCormick, as if your |
| 24 | | talking is that a volume metric? | 24 | assumption would be that the only people who |
| 25 | Α | No, it's a 1 foot. | 25 | attended these meetings would be Burns & |
| | | | | |
| | | Page 678 | | Page 680 |
| 1 | 0 | - | 1 | - |
| | Q | Okay. So you're talking that this, because it's | 1 | McDonnell personnel and folks from the |
| 2 | Q | Okay. So you're talking that this, because it's an average of 100 feet, then it's 1 foot here | 2 | McDonnell personnel and folks from the Department of Agriculture? |
| 2 3 | _ | Okay. So you're talking that this, because it's an average of 100 feet, then it's 1 foot here that you're referencing? | 2 3 A | McDonnell personnel and folks from the Department of Agriculture? That is who I recall being at the meetings, but |
| 2 3 4 | Q A | Okay. So you're talking that this, because it's an average of 100 feet, then it's 1 foot here that you're referencing? Yes. I think if I understand your question | 2 3 A 4 | McDonnell personnel and folks from the Department of Agriculture? That is who I recall being at the meetings, but I can't say that there weren't other people |
| 2 3 4 5 | _ | Okay. So you're talking that this, because it's an average of 100 feet, then it's 1 foot here that you're referencing?Yes. I think if I understand your question correctly, yes, since the average saturated | 2 3 A 4 5 | McDonnell personnel and folks from the Department of Agriculture? That is who I recall being at the meetings, but I can't say that there weren't other people there. |
| 2 3 4 5 6 | _ | Okay. So you're talking that this, because it's an average of 100 feet, then it's 1 foot here that you're referencing? Yes. I think if I understand your question correctly, yes, since the average saturated thickness is 100 feet, then the fluctuation of | 2 3 A 4 5 6 Q | McDonnell personnel and folks from the Department of Agriculture? That is who I recall being at the meetings, but I can't say that there weren't other people there. Fair enough. This is actually from your report, |
| 2 3 4 5 6 7 | A | Okay. So you're talking that this, because it's an average of 100 feet, then it's 1 foot here that you're referencing? Yes. I think if I understand your question correctly, yes, since the average saturated thickness is 100 feet, then the fluctuation of less than 1 percent would be less than 1 foot. | 2 3 A 4 5 6 Q 7 | McDonnell personnel and folks from the Department of Agriculture? That is who I recall being at the meetings, but I can't say that there weren't other people there. Fair enough. This is actually from your report, Mr. McCormick, at page 3-2, it says, the chief |
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| | | | Edwards County, Kansas & Kansas Water Transfer Act |
|--------|--|---|---|
| | Page 681 | | Page 683 |
| Q | And what information in a generalized sense, at | 1 / | A Yes. |
| ` | - | 2 (| Do you respect his opinions? |
| A | | | |
| | | | |
| | | | Mr. Romero provided in this proceeding, and he |
| | | | states at page 3-4 of his rebuttal that the |
| | | | BG BGW groundwater model was premised on the |
| | | | concept of increased groundwater recharge from |
| | | | precipitation on irrigated lands. To be |
| | | | consistent with this premise when evaluating |
| 0 | | | let me back up because really I'm this is |
| Q | | | misleading to you. Mr. Romero was asked to |
| | | | critique Steve Larson's report. |
| ٨ | • | | |
| A | - | | |
| | | | |
| 0 | | | it. And to take up where I left off, to be |
| Q | | | consistent with this premise when evaluating a |
| | 1 | | transfer, the groundwater recharge on irrigated |
| | | | land must be reduced when that land is no longer |
| | | | irrigated. That's quoting Mr. Larson. And |
| A | | | Mr. Romero goes on to say, I agree with |
| | | | Mr. Larson's description. Do you agree with |
| | | 23 | Mr. Larson's description? |
| - | | 24 | MR. BULLER: I'm going to object to |
| Q | Did anyone from the City of Hays ever say to you | 25 | this as a mischaracterization of |
| | Page 682 | | Page 684 |
| | personally that they would like to have the | 1 | Mr. Romero's rebuttal report, that that |
| | | 2 | quotation is not in Mr. Romero's rebuttal |
| | | 3 | report. If I'm mistaken, please display |
| A | Yes. | 4 | that report on the screen. |
| | | 5 | MR. LEE: You don't think that's in |
| | | - | the testimony? |
| | • | 7 | MR. BULLER: I'm looking at pages 3 |
| | - | 8 | and 4 of Mr. Romero's rebuttal report, and |
| | | 9 | I do not see anywhere where he's where |
| | | | that language is there, but if I'm |
| A | · · | | mistaken, please correct me. |
| | | | MR. LEE: Well, I think we can find |
| | | | that, if you'll indulge us, Your Honor. |
| | | | PRESIDING OFFICER: Okay. We'll |
| | | | take a moment here. Rather get everything |
| | - | | correct than rush through something. |
| | | | MR. LEE: And if you can just make |
| 0 | | | that a little larger, Myndee. |
| Y | | | Your Honor, this is Dave Romero's |
| ٨ | | | |
| A | | | rebuttal report, let me read for the record |
| 0 | | | what it says. He's answering a question |
| Q | | | where he says, Steve Larson writes on |
| | | 23 | page 3 of his report, the BMcD projected |
| | I do. | 24 | future scenario does not account for a |
| A Q | Have you met him? | 25 | reduction in groundwater recharge |
| | A Q A Q A Q | least, were you providing to the chief engineer? A We started off, we talked about different models that were available in the area and what would be the best tool, settled on the GMD5 model. We talked about the best way to meet their expectations for showing what the impacts of making these changes would be, talked about different types of data and accuracy of data and where to get data, things along those lines. Q Was the goal in talking to the chief engineer, Mr. McCormick, to facilitate approval of what your client wanted to do? A It was to make sure we meet the chief engineer's expectations that we would provide the data that he would need to approve it. Q But you were retained when I say you, Burns & McDonnell was retained in order to develop a plan that would allow transfer of water from the R9 Ranch, were you not? A We were retained to determine the sustainable yield of the ranch. We were not specifically retained to complete a transfer application for them. Q Did anyone from the City of Hays ever say to you Page 682 personally that they would like to have the transfer water application water transfer application approved? A Yes. Q This goes on to say that during that process, meaning the extensive consultation, that the Division of Water Resources vetted, provided input, and endorsed Burns & McDonnell's modeling methodology. Was the vetting, Mr. McCormick, was that done in writing or verbally or both? A 'Tm honestly not sure that there was something written. We exchanged some emails, so I suspect there was something in there that might have been written, but I don't believe we ever provided a list of this is what we're going to do, do you approve all of this, and they said yes, or something like that. Q So it sounds as if most of this was conversational. Is that a fair statement? | least, were you providing to the chief engineer? 2 C A We started off, we talked about different models that were available in the area and what would be the best tool, settled on the GMD5 model. We talked about the best way to meet their expectations for showing what the impacts of making these changes would be, talked about different types of data and accuracy of data and where to get data, things along those lines. 0 Q Was the goal in talking to the chief engineer, 11 11 Mr. McCormick, to facilitate approval of what your client wanted to do? 13 A It was to make sure we met the chief engineer's expectations that we would provide the data that he would need to approve it. 16 Q But you were retained when I say you, Burns & 17 16 McDonnell was retained in order to develop a plan that would allow transfer of water from the 19 18 R9 Ranch, were you not? 20 A We were retained to determine the sustainable yield of the ranch. We were not specifically retained to complete a transfer application for them. 21 Q Did anyone from the City of Hays ever say to you 25 Page 682 personally that they would like to have the transfer water application water transfer application approved? 3 A Yes. 4 Q This goes on to say that during that process, meaning t |

| | vards County, Kansas & Kansas Water Transfer Act | | | July 21, 2023 |
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| | Page 685 | | | Page 687 |
| 1 | associated with changing the status of | 1 | Q | Well, let's take that one at a time. When you |
| 2 | lands in the R9 Ranch from irrigated to | 2 | - | say you don't agree with the characterization, |
| 3 | nonirrigated. The BGW groundwater model | 3 | | what do you mean by that? |
| 4 | was premised on the concept of increased | | A | I don't agree that the BGW groundwater model was |
| 5 | groundwater recharge from precipitation on | 5 | | premised on the concept of increased groundwater |
| 6 | irrigated lands. To be consistent with | 6 | | recharge from precipitation on irrigated lands, |
| 7 | this premise when evaluating a transfer, | 7 | | and I believe that if you went back to |
| 8 | the groundwater recharge on irrigated land | 8 | | Mr. Romero's rebuttal report, he agrees with the |
| 9 | must be reduced when that land is no longer | 9 | | hydrologic concept of increased groundwater |
| 10 | irrigated. He says, I agree with | 10 | | recharge from precipitation on irrigated land, |
| 11 | Mr. Larson's description of this | 11 | | but I don't believe he's stating that he agrees |
| 12 | hydrological concept. | 12 | | with this quote. |
| 13 | PRESIDING OFFICER: Okay. And just | 13 | Q | Well, we can go back and look again. Do you see |
| 14 | for clarification, I believe you were on | 14 | - | that? |
| 15 | page 3 of Mr. Romero's report with that | 15 | Α | It's a little fuzzy but |
| 16 | quoted paragraph. Are you on line 54, is | 16 | Q | Okay. Let me help and I'll try and be pointed |
| 17 | that it? | 17 | - | the right direction here. |
| 18 | MR. LEE: I believe so, yes. | 18 | Α | Okay. |
| 19 | PRESIDING OFFICER: Okay. | 19 | Q | Here, Mr. McCormick, is the quote, you can see |
| 20 | MR. BULLER: And now can we go back | 20 | | that? |
| 21 | to the black screen? | 21 | . A | Yes, I can see that. |
| 22 | MR. LEE: We may. | 22 | Q | And then it goes on to say, I agree with |
| 23 | MR. BULLER: So it's not a quotation | 23 | | Mr. Larson's description of this hydrologic |
| 24 | by Mr. Romero, it's a quotation of Larson | 24 | | concept? |
| 25 | included in Mr. Romero's rebuttal. | 25 | Α | Yes. |
| | Page 686 | | | Page 688 |
| 1 | MR. LEE: It doesn't say that it is, | 1 | Q | Okay. |
| 2 | and that's just what I said to | | À | And I also agree with that hydrologic concept |
| 3 | Mr. McCormick, that it is a quote from | 3 | Q | Okay. |
| 4 | Mr. Larson that Mr. Romero is agreeing | | À | that precipitation can be enhanced on |
| 5 | with. | 5 | | irrigated lands in some cases. |
| 6 | MR. BULLER: Okay. Ordinarily I | 6 | Q | Okay. Let's go back to the slide. So let's |
| 7 | would need a quotation parenthetical but | 7 | | just focus, if we can, and maybe get a little |
| 8 | understood. | 8 | | bit of |
| 9 | PRESIDING OFFICER: Okay. I think | 9 | | Back to the slide we were looking at, |
| 10 | this resolves itself then with that. | 10 | | Myndee. |
| 11 | MR. BULLER: Yes. | 11 | | Let's just focus on the part that is in |
| 12 | PRESIDING OFFICER: And it's | 12 | | red, Mr. McCormick. I think what you're saying |
| 13 | clarified for the record that it's | 13 | | is that if I were to quote only that highlighted |
| 14 | Mr. Romero's quotation of Mr. Larson? | 14 | | part, the groundwater recharge on irrigated land |
| 15 | MR. BULLER: Yes. | 15 | | must be reduced when that land is no longer |
| 16 17 | PRESIDING OFFICER: All right. Go ahead. | 16 | Α | irrigated, you're saying you agree with that? I agree with the concept that in some cases the |
| 17 | BY MR. LEE: | 17 | | difference between irrigation irrigated and |
| 18 19 | | 19 | | nonirrigated land there is a difference in |
| 20 | can see that, I take it? | 20 | | recharge. I believe it is a site specific |
| 20 | | 20 | | concept that must be reviewed and applied |
| 22 | | 22 | | correctly. |
| 23 | | | Q | What's the what's the when you say site |
| 24 | characterization of it, and I don't agree with | 24 | - | specific concept, what does that mean to you? |
| 25 | who sold it | | • | It mans it's dependent on where the recharge is |

who said it.

25

25 A It means it's dependent on where the recharge is

| 1, 2023 | | wards County, Kansas & Kansas Water Transfer A |
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| Page 689 | | Page 691 |
| being applied and the irrigation is being | 1 | some of it's moistening the soil, and some of |
| applied and how it's being applied. | 2 | it's infiltrating, that's what they're talking |
| So when you have these questions, is it | 3 | about when they're talking about irrigation |
| important to have a site specific review? | 4 | return flows. They're not talking about |
| It is one of the hardest concepts to quantify, | 5 | rainfall precipitation recharge. |
| and it needs to you need to apply it in the | 6 Q | Well, let's go back to the slide that's |
| proper case. | 7 | highlighted in red. In terms of this concept, |
| So sometimes it would be, I think you're saying? | 8 | Mr. McCormick, that the groundwater recharge on |
| Sometimes it would be what? | 9 | irrigated land must be reduced when that land is |
| Important to have a site specific analysis? | 10 | no longer irrigated, was that a concept that |
| I would say it is always important to know what | 11 | Burns & McDonnell took into account when it was |
| site you're talking about. | 12 | doing its work? |
| And would it be important in some cases to have | 13 A | Meaning that meaning that the concept of |
| a site specific analysis? | 14 | precipitation recharge enhanced |
| I would need to know what you mean by a site | 15 Q | Well, just to be sure we're talking about the |
| specific analysis. | 16 | same thing, and I apologize for reading this |
| What do you mean by site specific when you talk | 17 | again, but just to avoid uncertainty, the |
| about it? | 18 | groundwater recharge on irrigated land must be |
| I mean you need to consider the application that | 19 | reduced when that land is no longer irrigated. |
| you're using it in. | 20 | Was that, what I just read, was that |
| I don't understand your answer, I'm sorry? | 21 | incorporated into the analysis and report that |
| You need to be cognizant of the area and the | 22 | Burns & McDonnell applied? |
| conditions in the area that you're applying the | 23 A | In the concept of the irrigation return flows, |
| concept. | 24 | yes, it was. |
| So in order to be cognizant of those items, then | 25 Q | Okay. And do you recall, at least in general, |
| Page 690 | | Page 692 |
| you have to understand the area that is in | 1 | where in your report it says that? |
| question, correct? | 2 A | It says it several times in my report. When |
| You need to know where it is being applied, yes. | 3 | we're talking about the describing the |
| Okay. So if we could look at the next screen. | 4 | scenarios, it says that the irrigation wells |
| This is a Kansas Geological Survey quote. | 5 | were removed, I'm paraphrasing here, it's not |
| The it's the it is authored by those on | 6 | word for word. |
| the left, and the hyperlink to the article is | 7 Q | That's okay. |
| | 8 A | The irrigation wells and their associated |
| • | 9 | irrigation return flows were removed. |
| water to the water table has been determined to | 10 Q | And that says that more than once by your |
| | 11 | recollection? |
| | | It says it several times in the report, yes. |
| | 13 0 | Okay. We'll review the report. Are you, |
| = | | Mr. McCormick, qualified to create a groundwater |
| | | model? |
| | | Yes, I am. |
| | | Do you know whether David Barfield is qualified |
| | ~ | to do so? |
| | | I can't speak to David's qualifications. |
| | | Have you ever known that he's created a |
| | - | groundwater model? |
| Irrigation return flows are a when water is | 21 22 A | I do not know that for sure. I know he's worked |
| ALLEADING A VIALE HUND ALL A MILLI MALLE IS | | |
| | 23 | with numerous models, in the development of |
| applied for irrigation, a portion of it directly infiltrates, you know, you're putting water on | 23 24 | with numerous models, in the development of numerous models, but I don't know if he's |
| | So when you have these questions, is it important to have a site specific review? It is one of the hardest concepts to quantify, and it needs to you need to apply it in the proper case. So sometimes it would be, I think you're saying? Sometimes it would be what? Important to have a site specific analysis? I would say it is always important to know what site you're talking about. And would it be important in some cases to have a site specific analysis? I would need to know what you mean by a site specific analysis. What do you mean by site specific when you talk about it? I mean you need to consider the application that you're using it in. I don't understand your answer, I'm sorry? You need to be cognizant of the area and the conditions in the area that you're applying the concept. So in order to be cognizant of those items, then Page 690 you have to understand the area that is in question, correct? You need to know where it is being applied, yes. Okay. So if we could look at the next screen. This is a Kansas Geological Survey quote. The it's the it is authored by those on the left, and the hyperlink to the article is also on the left. And it states that irrigation return flows, the infiltration of irrigation | being applied and the irrigation is being applied and how it's being applied.1So when you have these questions, is it important to have a site specific review?4It is one of the hardest concepts to quantify, and it needs to you need to apply it in the proper case.7So sometimes it would be, I think you're saying?8Sometimes it would be, I think you're saying?8Sometimes it would be, I think you're saying?8Sometimes it would be, I think you're saying?10I would say it is always important to know what site you're talking about.12And would it be important in some cases to have a site specific analysis?14I would need to know what you mean by a site specific analysis.16What do you mean by site specific when you talk about it?19I mean you need to consider the application that you're using it in.20I don't understand your answer, I'm sorry?21You need to be cognizant of these items, then22Page 69024you have to understand the area that is in question, correct?2You need to know where it is being applied, yes. Okay. So if we could look at the next screen. This is a Kansas Geological Survey quote.5The it's the it is authored by those on the left, and the hyperlink to the article is also on the left. And it states that irrigation utils factor8AA10yuater to the water table has been determined to ules, which are then listed. This factor includes return flow of the sprinkler or flood irrigation water plus leakage from irrigat |

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| | | Page 693 | | Page 695 |
| 1 | Q | Okay. Thank you for your time. | 1 | input and output associated with the model |
| 2 | ` | | 2 | files. Yeah, model simulations. |
| 3 | | REDIRECT EXAMINATION | 3 Q | Okay. Let me try that just to clarify, okay? |
| 4 | B | Y MR. BULLER: | 4 | Go back up to the previous page and I'll try to |
| _ | ~ | Mr. McCormick, you were asked about Dave | 5 | read it and you can tell me which terms |
| 5 | Q | • | | - |
| 6 | | Romero's rebuttal report, and Mr. Lee displayed | 6 A | Thank you. |
| 7 | | a quotation that Mr. Romero was quoting from | 7 Q | that you're referring to. Answer, beginning |
| 8 | | Larson Mr. Larson's report on the screen and | 8 | at line 71, I have not developed an alternative |
| 9 | | was asking you several questions about that. | 9 | methodology or reviewed Mr. Larson's analysis at |
| 10 | | Jami, could you pull up Mr. Romero's | 10 | the level of detail associated with examining |
| 11 | | rebuttal report? Let's show the document here. | 11 | the actual input and output associated with the |
| 12 | | Go to page 3, if you would. Scroll down to the | 12 | model simulations. |
| 13 | | bottom of page 3, if you would. Sorry about | 13 A | The input and output would be the files that |
| 14 | | that. | 14 | actually run the model and then come out of the |
| 15 | | On the bottom of page 3, scroll down just a | 15 | model once it's run. So if he has not examined |
| 16 | | little bit more, beginning at line 67, question: | 16 | the inputs and outputs, that would imply to me |
| 17 | | Do you concur with the methodology Larson used | 17 | that he has not run that simulation to verify |
| 18 | | to rerun the various simulations of potential | 18 | Mr. Larson's results. |
| | | future conditions considered by Burns & | 19 Q | So Mr. Larson's results were not verified by |
| 19 | | • | _ | - |
| 20 | | McDonnell reducing the amount of recharge in the | 20 | Mr. Larson, is that the way you understand this |
| 21 | | R9 Ranchlands that would not be irrigated under | 21 | language? |
| 22 | | future municipal pumping conditions? | 22 A | I believe you misspoke, I'm sure Mr. Larson |
| 23 | | Did I read that correctly, sir? | 23 | verified the results of his own runs. It |
| 24 | Α | I think so, yes. | 24 | appears to me that Mr. Romero did not verify the |
| 25 | Q | Beginning at line 71 of page 3, answer: I have | 25 | results of Mr. Larson's runs. |
| | | | | |
| | | | | |
| | | Page 694 | | Page 696 |
| | | - | | |
| 1 | | not developed an alternative methodology or | 1 Q | Thank you for correcting me, you're right, I did |
| 2 | | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of | 2 | Thank you for correcting me, you're right, I did misspeak. You were asked a question about |
| 2 3 | | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of detail associated with examining the actual | 2 3 | Thank you for correcting me, you're right, I did misspeak. You were asked a question about saturated thickness on the ranch by Mr. Lee. Do |
| 2 | | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of detail associated with examining the actual input and output associated with the model | 2 3 4 | Thank you for correcting me, you're right, I did misspeak. You were asked a question about saturated thickness on the ranch by Mr. Lee. Do you recall that? |
| 2 3 | | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of detail associated with examining the actual input and output associated with the model simulations. However, my review of his reported | 2 3 4 5 A | Thank you for correcting me, you're right, I did misspeak. You were asked a question about saturated thickness on the ranch by Mr. Lee. Do you recall that? I do. |
| 2 3 4 | | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of detail associated with examining the actual input and output associated with the model | 2 3 4 | Thank you for correcting me, you're right, I did misspeak. You were asked a question about saturated thickness on the ranch by Mr. Lee. Do you recall that? |
| 2 3 4 5 | | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of detail associated with examining the actual input and output associated with the model simulations. However, my review of his reported | 2 3 4 5 A | Thank you for correcting me, you're right, I did misspeak. You were asked a question about saturated thickness on the ranch by Mr. Lee. Do you recall that? I do. |
| 2 3 4 5 6 | | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of detail associated with examining the actual input and output associated with the model simulations. However, my review of his reported methodology set forth on pages 4 and 5 of his | 2 3 4 5 A 6 Q | Thank you for correcting me, you're right, I did misspeak. You were asked a question about saturated thickness on the ranch by Mr. Lee. Do you recall that? I do. Okay, Jami pull up Exhibit 2666. And, Jeff, I'm |
| 2 3 4 5 6 7 | | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of detail associated with examining the actual input and output associated with the model simulations. However, my review of his reported methodology set forth on pages 4 and 5 of his report are compatible with my expectations. To | 2 3 4 5 A 6 Q 7 | Thank you for correcting me, you're right, I did misspeak. You were asked a question about saturated thickness on the ranch by Mr. Lee. Do you recall that? I do. Okay, Jami pull up Exhibit 2666. And, Jeff, I'm looking for the cross section of the R9 Ranch. |
| 2 3 4 5 6 7 8 | | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of detail associated with examining the actual input and output associated with the model simulations. However, my review of his reported methodology set forth on pages 4 and 5 of his report are compatible with my expectations. To that extent, I concur with Mr. Larson's | 2 3 4 5 A 6 Q 7 8 | Thank you for correcting me, you're right, I did misspeak. You were asked a question about saturated thickness on the ranch by Mr. Lee. Do you recall that? I do. Okay, Jami pull up Exhibit 2666. And, Jeff, I'm looking for the cross section of the R9 Ranch. Thank you. |
| 2 3 4 5 6 7 8 9 | Α | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of detail associated with examining the actual input and output associated with the model simulations. However, my review of his reported methodology set forth on pages 4 and 5 of his report are compatible with my expectations. To that extent, I concur with Mr. Larson's methodology. | 2 3 4 5 A 6 Q 7 8 9 10 A | Thank you for correcting me, you're right, I did misspeak. You were asked a question about saturated thickness on the ranch by Mr. Lee. Do you recall that? I do. Okay, Jami pull up Exhibit 2666. And, Jeff, I'm looking for the cross section of the R9 Ranch. Thank you. Can you see this okay, Mr. McCormick? Yes, I can. |
| 2 3 4 5 7 8 9 10 11 | | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of detail associated with examining the actual input and output associated with the model simulations. However, my review of his reported methodology set forth on pages 4 and 5 of his report are compatible with my expectations. To that extent, I concur with Mr. Larson's methodology. Did I read that correctly? I believe so. | 2 3 4 5 A 6 Q 7 8 9 | Thank you for correcting me, you're right, I did misspeak. You were asked a question about saturated thickness on the ranch by Mr. Lee. Do you recall that? I do. Okay, Jami pull up Exhibit 2666. And, Jeff, I'm looking for the cross section of the R9 Ranch. Thank you. Can you see this okay, Mr. McCormick? Yes, I can. And I have Exhibit Cities' Exhibit 2666 |
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| 2 3 4 5 7 8 9 10 11 12 13 | | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of detail associated with examining the actual input and output associated with the model simulations. However, my review of his reported methodology set forth on pages 4 and 5 of his report are compatible with my expectations. To that extent, I concur with Mr. Larson's methodology. Did I read that correctly? I believe so. Does it appear to you that Mr. Romero ran the model in evaluating Mr. Larson's conclusions and | 2 3 4 5 A 6 Q 7 8 9 10 A 11 Q 12 13 | Thank you for correcting me, you're right, I did misspeak. You were asked a question about saturated thickness on the ranch by Mr. Lee. Do you recall that? I do. Okay, Jami pull up Exhibit 2666. And, Jeff, I'm looking for the cross section of the R9 Ranch. Thank you. Can you see this okay, Mr. McCormick? Yes, I can. And I have Exhibit Cities' Exhibit 2666 displayed on the screen and we've got a foam board copy of 2666 in front of you here in hard |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | Q A | not developed an alternative methodology or reviewed Mr. Larson's analysis at the level of detail associated with examining the actual input and output associated with the model simulations. However, my review of his reported methodology set forth on pages 4 and 5 of his report are compatible with my expectations. To that extent, I concur with Mr. Larson's methodology. Did I read that correctly? I believe so. Does it appear to you that Mr. Romero ran the model in evaluating Mr. Larson's conclusions and methodology? No, I believe he specifically says he did not. What why do you say it specifically says he did not? Explain that to those of us who aren't | 2 3 4 5 A 6 Q 7 8 9 10 A 11 Q 12 13 14 15 16 17 | Thank you for correcting me, you're right, I did misspeak. You were asked a question about saturated thickness on the ranch by Mr. Lee. Do you recall that? I do. Okay, Jami pull up Exhibit 2666. And, Jeff, I'm looking for the cross section of the R9 Ranch. Thank you. Can you see this okay, Mr. McCormick? Yes, I can. And I have Exhibit Cities' Exhibit 2666 displayed on the screen and we've got a foam board copy of 2666 in front of you here in hard form, Mr. McCormick. So examining 2666 Jami, zoom in a little bit on the top third of the screen with the illustration up there, and and, actually, let's go down to the |
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| July 21 | | | Ľu | wards County, Kansas & Kansas water Transfer Act |
|--|---|---|--|--|
| | Page 697 | | | Page 699 |
| 1 Q | Okay. And there is a purple line running from | 1 | | report? |
| 2 | left to right across roughly the middle of that | | Α | Yes, it's in there. |
| 3 | image, is that is that what you see, sir? | | Q | Okay. So when you have 140 feet of saturated |
| 4 A | Yes. | 4 | - | thickness, explain that to us in lay terms so |
| 5 Q | Okay. Moving back up to the top portion of this | 5 | | that, you know, we can sort of understand what |
| 6 | image, okay, and zoom out just a little bit, | 6 | | that means. Not from a groundwater model |
| 7 | Jami. | 7 | | perspective but try to dumb it down so that I |
| 8 | Okay. There is on the top left an | 8 | | can understand it. |
| 9 | indication of west, top right indication of | | Α | Okay. It's where the water is. |
| 10 | east, back to the top left indication of A, and | | Q | Thanks. |
| 11 | top right indication of A prime? | | Ă | Sand and gravel of the aquifer extends for some |
| 12 A | Yeah. | 12 | | thickness. The saturated thickness is the |
| 13 Q | Is that what you would say? | 13 | | portion of that thickness that is saturated with |
| 13 Q 14 A | Yeah. | 14 | | water to where it is an extractable, I'm going |
| 15 Q | And so describe for me, if you would, what | 15 | | to say commodity; I'm not sure that's the best |
| 15 Q 16 | the what that illustration is showing. | 16 | | term but I'm going to use commodity, the water |
| 10 17 A | That's a cross section through the R9 Ranch at | 17 | | is extractable. |
| 17 A 18 | the location of that purple line. You can see | | Q | When you can pump water out? |
| 19 | A and A prime on the aerial image, those | | A | Yes. |
| 20 | correspond with the ends of the cross sections | | Q | And so is it is it correct, then, and tell me |
| 21 | so that you can get an idea of the direction and | 21 | - | if this is incorrect, please, when you have |
| 22 | where things are located. You can see on the | 22 | | 140 feet of saturated thickness, that's like |
| 23 | cross section the Arkansas River is on the west | 23 | | literally a foot, 12 inches is 1 foot of |
| 24 | near A, and then the cross section extends | 24 | | saturated thickness, 24 inches is 2 feet of |
| 25 | across the ranch to the east to the location of | 25 | | saturated thickness, 36 inches is 3 feet of |
| | | | | |
| | Page 698 | | | Page 700 |
| 1 | A prime. | 1 | | saturated thickness, and I'm not going to go all |
| 2 Q | - | 2 | | the way up to 140, but that's what that is |
| 3 | saturated thickness along that line that's | 3 | | referring to. Is that accurate? |
| 4 | running from A to A prime? | | Α | That is correct, yes. |
| | It is illustrated on there, yes. | | Q | Is that accurate? |
| | Can you please describe that for the record. | | - | Yes. |
| 7 A | | - | Q | So let's talk about saturated thickness a little |
| 8 / A | saturated thickness is approximately 45 feet, | 8 | - | bit more on the ranch. |
| 9 | and on the east side near A the point A | 9 | | So, Jami, if you could pull up Exhibit |
| 10 | | | | ~ -, commenter a l'ou course part ap Latitudit |
| | brime, the saturated thickness is 140 teet | 10 | | · · · |
| | prime, the saturated thickness is 140 feet approximately, and the average thickness across | 10 11 | | 2827, that's Mr. McCormick's groundwater model |
| 11 | approximately, and the average thickness across | 11 | | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be |
| 11 12 | approximately, and the average thickness across there is approximately 100 feet. | 11 12 | | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be figure 4-6. |
| 11 12 13 Q | approximately, and the average thickness across there is approximately 100 feet. And that 100-feet average saturated thickness is | 11 12 13 | | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be figure 4-6. And, actually, do you remember the figure |
| 11 12 13 Q 14 | approximately, and the average thickness across there is approximately 100 feet. And that 100-feet average saturated thickness is not reflected on this exhibit, is it? | 11 12 13 14 | | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be figure 4-6. |
| 11 12 13 Q 14 15 A | approximately, and the average thickness across there is approximately 100 feet. And that 100-feet average saturated thickness is not reflected on this exhibit, is it? It is not written on there, no. | 11 12 13 14 15 | A | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be figure 4-6. And, actually, do you remember the figure that is the maximum pumping figure, Paul? What's |
| 11 12 13 Q 14 | approximately, and the average thickness across there is approximately 100 feet. And that 100-feet average saturated thickness is not reflected on this exhibit, is it? | 11 12 13 14 15 | | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be figure 4-6. And, actually, do you remember the figure that is the maximum pumping figure, Paul? What's That is the not the maximum pumping, that's |
| 11 12 13 Q 14 15 A 16 Q | approximately, and the average thickness across there is approximately 100 feet. And that 100-feet average saturated thickness is not reflected on this exhibit, is it? It is not written on there, no. Then how do you know what the average saturated | 11 12 13 14 15 16 17 | A | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be figure 4-6. And, actually, do you remember the figure that is the maximum pumping figure, Paul? What's That is the not the maximum pumping, that's the operations. I was looking for |
| 11 12 13 Q 14 15 A 16 Q 17 | approximately, and the average thickness across there is approximately 100 feet. And that 100-feet average saturated thickness is not reflected on this exhibit, is it? It is not written on there, no. Then how do you know what the average saturated thickness on the ranch is? That's a calculation that we've done. | 11 12 13 14 15 16 17 18 | A Q | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be figure 4-6. And, actually, do you remember the figure that is the maximum pumping figure, Paul? What's That is the not the maximum pumping, that's the operations. I was looking for It would be 4-5 or 4-4 then. |
| 11 12 13 Q 14 15 A 16 Q 17 18 A | approximately, and the average thickness across there is approximately 100 feet. And that 100-feet average saturated thickness is not reflected on this exhibit, is it? It is not written on there, no. Then how do you know what the average saturated thickness on the ranch is? That's a calculation that we've done. Okay. And was that figure included in your | 11 12 13 14 15 16 17 18 19 | A Q A | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be figure 4-6. And, actually, do you remember the figure that is the maximum pumping figure, Paul? What's That is the not the maximum pumping, that's the operations. I was looking for |
| 11 12 13 Q 14 15 A 16 Q 17 18 A 19 Q | approximately, and the average thickness across there is approximately 100 feet. And that 100-feet average saturated thickness is not reflected on this exhibit, is it? It is not written on there, no. Then how do you know what the average saturated thickness on the ranch is? That's a calculation that we've done. Okay. And was that figure included in your groundwater model report, sir? | 11 12 13 14 15 16 17 18 19 20 | A Q A Q | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be figure 4-6. And, actually, do you remember the figure that is the maximum pumping figure, Paul? What's That is the not the maximum pumping, that's the operations. I was looking for It would be 4-5 or 4-4 then. Okay. So it would be up a page. Keep going. |
| 11 12 13 Q 14 15 A 16 Q 17 18 A 19 Q 20 | approximately, and the average thickness across there is approximately 100 feet. And that 100-feet average saturated thickness is not reflected on this exhibit, is it? It is not written on there, no. Then how do you know what the average saturated thickness on the ranch is? That's a calculation that we've done. Okay. And was that figure included in your | 11 12 13 14 15 16 17 18 19 20 21 | A Q A Q A | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be figure 4-6. And, actually, do you remember the figure that is the maximum pumping figure, Paul? What's That is the not the maximum pumping, that's the operations. I was looking for It would be 4-5 or 4-4 then. Okay. So it would be up a page. Keep going. Keep going. |
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| 11 12 13 Q 14 15 A 16 Q 17 18 A 19 Q 20 21 A 22 23 Q | approximately, and the average thickness across there is approximately 100 feet. And that 100-feet average saturated thickness is not reflected on this exhibit, is it? It is not written on there, no. Then how do you know what the average saturated thickness on the ranch is? That's a calculation that we've done. Okay. And was that figure included in your groundwater model report, sir? This cross-section figure is not included in my groundwater model report. Okay. Was the information relating to the | 111 12 13 14 15 16 17 18 19 20 21 22 23 24 | A Q A Q A Q A Q | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be figure 4-6. And, actually, do you remember the figure that is the maximum pumping figure, Paul? What's That is the not the maximum pumping, that's the operations. I was looking for It would be 4-5 or 4-4 then. Okay. So it would be up a page. Keep going. Keep going. There you go. Yep. Okay. So here when you please describe this |
| 11 12 13 Q 14 15 A 16 Q 17 18 A 19 Q 20 21 A 22 23 Q 24 | approximately, and the average thickness across there is approximately 100 feet. And that 100-feet average saturated thickness is not reflected on this exhibit, is it? It is not written on there, no. Then how do you know what the average saturated thickness on the ranch is? That's a calculation that we've done. Okay. And was that figure included in your groundwater model report, sir? This cross-section figure is not included in my groundwater model report. Okay. Was the information relating to the average saturated thickness on the ranch of | 111 12 13 14 15 16 17 18 19 20 21 22 23 24 | A Q A Q A Q A Q | 2827, that's Mr. McCormick's groundwater model report. And go to page 103726. That should be figure 4-6. And, actually, do you remember the figure that is the maximum pumping figure, Paul? What's That is the not the maximum pumping, that's the operations. I was looking for It would be 4-5 or 4-4 then. Okay. So it would be up a page. Keep going. Keep going. There you go. Yep. Okay. So here when you please describe this figure for us, sir. |

| Edwa | ds County, Kansas & Kansas Water Transfer Act | | | July 21, 2023 |
|---|--|--|--|--|
| | Page 701 | | | Page 703 |
| - | showing changes in water level caused by | - | | groundwater model report showing the impacts of |
| 1 2 | municipal pumping on the ranch as compared to | 1 2 | | groundwater model report showing the impacts of 51 years of maximum pumping under the Cities' |
| | the documented irrigation pumping on the ranch. | 3 | | 4800 acre-feet limitation; is that true? |
| 3 4 Q | · · · · | 4 | | Yes, in reading the title. |
| 4 Q 5 | right-hand corner states that Model generated | 5 | | Jami, please zoom in to this area of the ranch |
| 5 | difference in water levels, scenario two, | 6 | | over here on this side right there. Okay. And |
| | historic irrigation pumping versus proposed | | | down just a little bit so we can see the contour |
| 7 | | 7 | | 5 |
| 8 | municipal wells pumping 4800 acre-feet per year, 1991 to 2007 simulation. Did I read that | 8 | 1 | line. |
| 9 | | 9 | | Okay. Mr. McCormick, in this area of the |
| 10 | correctly to the best of your ability to see? | 10 | | ranch, what does your modeling report show with |
| 11 A | Yes, I believe you did. So this would be the | 11 | | respect to the decline, and how is that related |
| 12 | short-term | 12 | | to the saturated thickness in that area? |
| 13 Q | • | 13 | | My model report shows a decline of .4 feet |
| 14 A | | 14 | | caused by as a difference of the change in |
| 15 Q | This this is the short-term maximum pumping | 15 | | water level caused by changing from irrigation |
| 16 | scenario where the Cities are pumping | 16 | | pumping to municipal pumping, and in that area, |
| 17 | continuously, 24/7/365, year after year their | 17 | | the saturated thickness of the aquifer is |
| 18 | maximal allocated quantity under the | 18 | | approximately 140 feet. |
| 19 | 4800 acre-feet per year average quantity | 19 | - | Okay. So about how much of the saturated |
| 20 | limitation, correct? | 20 | | thickness, if you know, in percentage terms |
| 21 A | That is correct. | 21 | | is of 140 feet is 0.4 decline? |
| 22 Q | | 22 | | Just doing really quick math in my head, less |
| 23 | under this scenario for 17 years, that's what | 23 | | than .3 percent. |
| 24 | this is showing, the water level impacts under | 24 | | I show okay, well, I won't hold you to that. |
| 25 | that scenario; is that | 25 | | So but that 0.4 is important related to |
| | | | | |
| | Page 702 | | | Page 704 |
| 1 A | - | 1 | | |
| 1 A 2 O | That is correct. | 1 | | saturated thickness and explain to us why, when |
| 2 Q | That is correct. Okay. And what I'm looking for now is the | 2 | | saturated thickness and explain to us why, when you're looking at the decline in water level, |
| 2 Q 3 | That is correct. Okay. And what I'm looking for now is the figure showing the 51-year simulation of the | | | saturated thickness and explain to us why, when you're looking at the decline in water level, why is reviewing that in the context of |
| 2 Q 3 4 | That is correct. Okay. And what I'm looking for now is the figure showing the 51-year simulation of the maximum irrigation pumping and I'm going | 2 3 4 | | saturated thickness and explain to us why, when you're looking at the decline in water level, why is reviewing that in the context of saturated thickness relevant? |
| 2 Q 3 4 5 | That is correct. Okay. And what I'm looking for now is the figure showing the 51-year simulation of the maximum irrigation pumping and I'm going MR. LEE: Your Honor, objection, | 2 3 4 5 | A | saturated thickness and explain to us why, when you're looking at the decline in water level, why is reviewing that in the context of saturated thickness relevant? You you try to avoid reducing your saturated |
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| | Page 705 | | | Page 707 |
| 1 | Please identify this figure, if you would. | 1 | A | Yes, they do. |
| 2 A | This is could you scroll down so I could read | 2 | Q | Okay. |
| 3 | the title, please, Jami. This is our predictive | 3 | Α | Quite a few of them do. |
| 4 | model simulated recharge and pumping scenarios | 4 | Q | Would you say it's common, infrequent, how would |
| 5 | 3, 4, and 5, this illustrates what municipal | 5 | | you characterize the frequency of that situation |
| 6 | pumping we estimated in the model scenarios 3, | 6 | | when you're meeting with regulatory reviewers |
| 7 | 4, and 5. | 7 | | relating to those projects? |
| 8 Q | Okay. And this pink line with X's overlaid, | 8 | Α | It's standard practice for us |
| 9 | that's the 4800-acre-feet-per-year line? | 9 | Q | Okay. |
| 10 A | That's correct. | 10 | A | to meet with the regulators and make sure |
| 11 Q | And this is 51 years, this is a 51-year graph? | 11 | | that our work is going to meet their |
| 12 A | That's correct. | 12 | | expectations |
| 13 Q | What is this blue line that begins around 1300 | 13 | Q | Okay. |
| 14 | and increases every decade? | 14 | Α | so that we can get through the permitting |
| 15 A | That is the predicted actual pumping under | 15 | | process with them. |
| 16 | operational conditions if we develop the R9 | 16 | Q | Okay. So we know you've met with members of DWR |
| 17 | Ranch. | 17 | | in the course of developing the groundwater |
| 18 Q | And what do you mean by operational conditions? | 18 | | model for the change application proceeding; is |
| 19 A | That's what we the anticipated demand in | 19 | | that true? |
| 20 | pumping from the ranch. | 20 | Α | That is true. |
| 21 Q | It's not 4800 acre-feet per year? | 21 | Q | Mr. Lee asked you about some of those meetings? |
| 22 A | No, it is not. | 22 | Α | Yes. |
| 23 Q | In fact, even after 51 years, it doesn't get up | 23 | Q | Have you met with DWR in the course of other |
| 24 | to 4800 acre-feet, does it? | 24 | | work that you've done? |
| 25 A | No, it does not. | 25 | Α | Often, very often. |
| | Page 706 | | | Page 708 |
| 1 Q | Okay. So in the operational scenario, would the | 1 | 0 | Have you ever met with Kansas Department of |
| 2 | impact to the water level be cause a water | 2 | • | Health and Environment in the course of work |
| 3 | level decline similar to the maximum pump, how | 3 | | that you've done when they have review and |
| 4 | would that impact the water level in relation to | 4 | | approval authority? |
| 5 | saturated thickness? | 5 | Α | Regularly, often. |
| 6 A | Less pumping would result in less draw down | | | Have you met with any other state agencies in |
| 7 | less declines. | 7 | ` | Kansas or elsewhere in the course of your work? |
| 8 Q | Under the operational scenario, are water levels | 8 | Α | I would say we meet with the state regulators in |
| 9 | improved or do water levels go up or do they | 9 | | every state that we work. I personally |
| 10 | go down when you compare them to the Cities' | 10 | | Wisconsin, Texas, Oklahoma, Idaho, any state |
| 11 | historic irrigation pumping? | 11 | | that we're working in, we make sure that we're |
| 12 A | | 12 | | meeting the regulators' expectations and have |
| 13 Q | | 13 | | consultations with them to plan our process so |
| 14 | meetings with meetings that you had in the | 14 | | that we can accomplish that. |
| 15 | course of developing your groundwater model | 15 | Q | Is that a part is that standard operating |
| 16 | report. Do you remember that? | 16 | * | procedure when you're working on projects that |
| 17 A | | 17 | | entail regulatory review and approval? |
| 18 Q | | 18 | A | Yes. Yes, it is. |
| 19 | projects as a hydrogeologist for Burns & | 19 | | Have you ever worked on a project that involved |
| 20 | McDonnell? | 20 | - | regulatory review or approval in which you did |
| 21 A | Yes, I have. | 21 | | not meet and collaborate with the reviewing |
| 22 Q | Have you and have you had an in the course | 22 | | agency? |
| | | | Δ | I can't think of any. I think there have been |
| - | of those that work, do some of those projects | 2.3 | | I CALL I UTILIK OF ALLY. I UTILIK LITETE HAVE DEEN |
| 22 Q 23 24 | of those that work, do some of those projects involve regulatory review and approval of the | 23 24 | п | occasions where the client preferred to meet |

| Luwai | tus County, Kansas & Kansas Water Transfer Act | | | July 21, 202. |
|-------|--|----|---|---|
| | Page 709 | | | Page 711 |
| 1 | they met, but I I think in all cases that we | 1 | A | DWR's modeler, Sam Perkins. |
| 2 | have at least had consultations of some sort | | Q | |
| 3 | with the regulatory agencies. | | À | - |
| 4 Q | | 4 | Q | |
| 5 | regulatory agencies in these projects? | 5 | - | in the past? |
| 6 A | It's in our client's benefit to make sure that | 6 | Α | * |
| 7 | the work that we're going to do is appropriate | 7 | Q | |
| 8 | for meeting the regulatory agency's | 8 | | He is, he's an exceptional groundwater modeler. |
| 9 | expectations. Otherwise, we could go down a | 9 | Q | |
| 10 | pathway and do a whole bunch of work that costs | 10 | | assessment of your groundwater model conclude? |
| 11 | the client money and time and effort on our part | 11 | | MR. LEE: Your Honor, I would renew |
| 12 | that is wasted because it was either something | 12 | | my objection on the same basis, beyond the |
| 13 | that the regulatory authority did not need, did | 13 | | scope. |
| 14 | not want, or was not the correct path that they | 14 | | PRESIDING OFFICER: Respond. |
| 15 | wanted us to take to provide the information | 15 | | MR. BULLER: Sure, this isn't about |
| 16 | that they needed. | 16 | | saturated thickness anymore. This is now |
| 17 Q | Mr. Lee asked you about communications, and | 17 | | about Mr. Lee's questions relating to no |
| 18 | I'm I believe it was a quotation from maybe | 18 | | written product vetting Mr. McCormick's |
| 19 | the Master Order, I can't recall, relating to | 19 | | work, that's precisely what Mr. Perkins did |
| 20 | communications between you and DWR or maybe it | 20 | | in the technical assessment. |
| 21 | was Burns & McDonnell, not you, but Burns & | 21 | | PRESIDING OFFICER: Go ahead, |
| 22 | McDonnell and DWR relating to this meeting and | 22 | | Mr. Lee. |
| 23 | review process that we've been discussing, and | 23 | | MR. LEE: Thank you, Your Honor. |
| 24 | you couldn't recall any written work product | 24 | | The question was was the was the vetting |
| 25 | that or written work that DWR provided as far | 25 | | done in person or in writing or both. |
| | | | | |
| | Page 710 | | | Page 712 |
| 1 | as technical review of your report and do you | 1 | | That's different than what Mr. Buller is |
| 2 | recall that testimony? | 2 | | talking about here. He's looking for |
| 3 A | I believe he was referring to technical vetting, | 3 | | documents, seeking documents; my question |
| 4 | and I can't remember the other terms that were | 4 | | simply was, was it in writing or was it |
| 5 | listed off the top of my head, but it was | 5 | | verbal. |
| 6 | yeah, technical documentation of the process and | 6 | | MR. BULLER: We can read back the |
| 7 | the conclusions reached. | 7 | | transcript, but I recall a follow-up |
| 8 Q | And and just to clarify about these meetings | 8 | | question by Mr. Lee in which he said, it |
| 9 | that Mr. Lee asked you about, none of these | 9 | | sounds like most of these vetting were done |
| 10 | meetings occurred during the water transfer | 10 | | verbally or orally, and I'm responding to |
| 11 | proceeding, correct? | 11 | | that question. |
| 12 A | No, no, we haven't met with this was when we | 12 | | PRESIDING OFFICER: I think I did |
| 13 | were developing the concept of what we needed to | 13 | | have a note of that, and the answer was |
| 14 | model to provide the information that DWR would | 14 | | something about he couldn't say for sure, |
| 15 | need. | 15 | | they exchanged some email but large part |
| 16 Q | And that was during the change application | 16 | | were conversational. So I'll allow you to |
| 17 | proceeding, correct? | 17 | | answer the question, I'll overrule the |
| 18 A | That is correct. | 18 | | objection, allow you to take a few steps |
| 19 Q | And so regarding this vetting, did DWR provide a | 19 | | with that, make sure you're not going too |
| 20 | technical assessment of your groundwater | 20 | | far off the basis of that of Mr. Lee's |
| 21 | modeling work? | 21 | | cross. |
| 22 A | Yes, they did. | 22 | | MR. BULLER: Understood. |
| 23 Q | And was that in written form? | 23 | | Y MR. BULLER: |
| 24 A | Yes, it was. | | Q | |
| 25 Q | Who was the author of that document? | 25 | | technical assessment, which was a written |
| | | | | |

| 21, 2023 | - | dwards County, Kansas & Kansas Water Transfer Act |
|---|--|---|
| Page 713 | | Page 715 |
| document, of your groundwater modeling work? | 1 | enhanced recharge would be a factor on R9 Ranch? |
| | 2 A | _ |
| conclusions. | | |
| Q Okay. Moving on. Mr. Lee asked you a question | | - |
| | 5 C | How many times? |
| | | At least three, probably more that I can think |
| | 7 | of. |
| | 8 Q | Were you present for Mr. Crispin's testimony |
| that? | 9 | this morning? |
| A I do. | 10 A | _ |
| Q Do you have you had an opportunity to review | 11 Q | Did you see some of the photographs taken from |
| Mr. Balleau's groundwater model report? | 12 | the R9 Ranch that were displayed during his |
| A I have, I've reviewed it quite a number of times | 13 | testimony? |
| and referenced it several. | 14 A | I did. |
| Q So you're familiar with Mr. Balleau's | 15 Q | Did those photographs comport with your |
| groundwater model report? | 16 | understanding and recollection of the soil |
| A Yes. | 17 | composition on the R9 Ranch based on your |
| Q And I understand you don't have it in front of | 18 | experience? |
| you, but to your recollection and based on | 19 A | Yes. |
| your as you sit here right now, do you agree | 20 Q | Would you say that the soil composition on the |
| with the statement that Balleau's groundwater | 21 | ranch would have an impact on whether or not |
| model was premised on this notion of irrigation | 22 | irrigation enhanced recharge would be a factor |
| enhanced recharge? | 23 | in this case? |
| A No, I do not. | 24 A | I would say so, yes. |
| Q Do you recall Mr. Balleau ever using the words | 25 Q | In your opinion, is irrigation enhanced recharge |
| Page 714 that to the effect that his methodology in | _ | Page 716 |
| that to the effect that his methodology in | | |
| | 1 | a factor on the ranch? |
| that groundwater model was premised on | 2 A | No, I do not think it is. |
| that groundwater model was premised on irrigation enhanced recharge? | 2 A 3 Q | No, I do not think it is.And what is the basis for that opinion? |
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| that groundwater model was premised on irrigation enhanced recharge? A I do not recall that being in the report anywhere. Q Does anything in the Balleau groundwater model report suggest or imply that the Balleau groundwater model is premised on irrigation enhanced recharge? A Nothing that I read indicated that. Q Does the Balleau groundwater model report or the Balleau groundwater model itself explain or provide any mechanism for calculating or quantifying irrigation enhanced recharge? A No, it does not. Q Mr. Lee asked you questions relating to irrigation enhanced recharge, and you stated that it can be a factor at times, can you explain that? A It can be a factor in areas that are, you know, obviously flood irrigation. If you currently got a field that's flooded and rain falls on it, | 2 A 3 C 4 A 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 J 22 C | No, I do not think it is. And what is the basis for that opinion? The ranch is essentially dune sand, it's like being on a beach. Water that falls on the ranch immediately sinks into the ground, there are not runoff features, there's not retention features where water is ponded, there aren't streams or rills; it's sand, it's just like pouring a bucket of water out on the beach, it goes straight down into the ground. MR. BULLER: Thank you, I'll pass the witness. PRESIDING OFFICER: Mr. Cole? MR. COLE: No questions. PRESIDING OFFICER: All right. Mr. Lee? MR. LEE: Thank you, Your Honor. RECROSS EXAMINATION BY MR. LEE: Mr. McCormick, as to the question of meetings |
| | conclusions. Okay. Moving on. Mr. Lee asked you a question or quoted a quotation from Mr. Larson's report relating to an argument that the Balleau groundwater model was premised on, I'll call it irrigation enhanced recharge. Do you recall that? I do. Do you have you had an opportunity to review Mr. Balleau's groundwater model report? I have, I've reviewed it quite a number of times and referenced it several. So you're familiar with Mr. Balleau's groundwater model report? Yes. And I understand you don't have it in front of you, but to your recollection and based on your as you sit here right now, do you agree with the statement that Balleau's groundwater model was premised on this notion of irrigation enhanced recharge? No, I do not. Do you recall Mr. Balleau ever using the words | AI think he agreed with it, he agreed with my conclusions.2AQOkay. Moving on. Mr. Lee asked you a question or quoted a quotation from Mr. Larson's report relating to an argument that the Balleau groundwater model was premised on, I'll call it irrigation enhanced recharge. Do you recall that?6AI do.10QDo you have you had an opportunity to review Mr. Balleau's groundwater model report?12AI have, I've reviewed it quite a number of times and referenced it several.13QSo you're familiar with Mr. Balleau's groundwater model report?15QAnd I understand you don't have it in front of you, but to your recollection and based on your as you sit here right now, do you agree with the statement that Balleau's groundwater model was premised on this notion of irrigation enhanced recharge?23ANo, I do not.24APage 714Page 714 |

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| | | Page 717 | | Page 719 |
| 1 | Α | It was prior to filing the change applications, | 1 | is no longer irrigated. So are we talking about |
| 2 | | I couldn't give you an exact date. | 2 | the same thing here that you're here we're |
| | Q | Okay. | 3 | talking about a reduction in recharge rate once |
| | À | But it's been years ago. | 4 | irrigation is stopped? |
| | Q | Like sometime before 2018, I presume? | 5 A | No, the two quotes are referring to completely |
| | À | Yeah, we we published the model report in | 6 | different processes. This quote is dealing with |
| 7 | | 2018, so, yes, it would have been 2017 or | 7 | precipitation recharge, as it said in the second |
| 8 | | earlier. | 8 | line, groundwater recharge from precipitation; |
| | Q | Okay. I just want to be sure listening to your | 9 | the other quote from the DWR document is talking |
| 10 | · | responses to Mr. Buller's questions that we're | 10 | about irrigation return flows, which is the |
| 11 | | all talking about the same things here, so if we | 11 | irrigated water infiltrating into the ground. |
| 12 | | could put the first of those slides up very | 12 | They are two completely different subjects. |
| 13 | | quickly. I think we agreed a bit ago and seemed | 13 Q | And so to the the highlighted part here, |
| 14 | | like maybe this got a little muddled that if you | 14 | then, and not to belabor the point, that is |
| 15 | | look at the red highlighting here that says, | 15 | something in certain circumstances that you |
| 16 | | Groundwater recharge on irrigated land must be | 16 | agree with conceptually? |
| 17 | | reduced when that land is no longer irrigated, I | 17 A | The concept is something that I would agree with |
| 18 | | think you said conceptually you agree with that? | 18 | conceptually after looking at the site and |
| 19 | Α | I said in it needs to be reviewed depending | 19 | determining the conditions at an individual |
| 20 | | on what site you're working on and the | 20 | site. |
| 21 | | conditions on that site, but I agree with the | 21 Q | Okay. Thank you. |
| 22 | | concept as a whole that it's something that | 22 | PRESIDING OFFICER: All right. |
| 23 | | needs to be considered. | 23 | Ms. Langworthy? |
| 24 | Q | Okay. So if we look at the next one of these, | 24 | MS. LANGWORTHY: No questions, Your |
| 25 | | which is essentially what the Kansas Geological | 25 | Honor. |
| | | | | |
| | | Page 718 | | Page 720 |
| 1 | | Survey article is saying, at least the way that | 1 | MR. BULLER: No further questions, |
| 2 | | we would interpret it, That irrigation return | 2 | Your Honor, thank you. |
| 3 | | flows, the infiltration of irrigation water to | 3 | PRESIDING OFFICER: All right. |
| 4 | | the water table has been determined to be a | 4 | Thank you, Mr. McCormick. |
| 5 | | significant recharge component in several | 5 | MR. TRASTER: You ready? |
| 6 | | studies, I guess your answer or response to that | 6 | PRESIDING OFFICER: I'm ready, |
| 7 | | would be the same? | 7 | Mr. Traster, whenever you are. |
| | Α | These irrigation return flows are not recharge | 8 | MR. TRASTER: Call Daniel Clement. |
| 9 | | irrigation from precipitation that we're talking | 9 | PRESIDING OFFICER: Mr. Clement. |
| 10 | | about, these are two different things. | 10 | MR. TRASTER: While he's coming up, |
| 11 | 0 | Well | 11 | we can go off the record for just a moment |
| 12 | - | What is referred to in the previous quote is not | 12 | if you don't mind. |
| 13 | - | irrigation return flow. | 13 | PRESIDING OFFICER: Sure. |
| | | | | |
| 14 | Q | Well, but we're talking about the difference | 14 | (Discussion held off the record.) |
| 14 15 | Q | Well, but we're talking about the difference once irrigation stops, you recall that, right? | | (Discussion held off the record.) PRESIDING OFFICER: All right. We |
| | - | once irrigation stops, you recall that, right? | 14 | PRESIDING OFFICER: All right. We |
| 15 | - | - | 14 15 | |
| 15 16 | A | once irrigation stops, you recall that, right? We are talking about the difference between | 14 15 16 | PRESIDING OFFICER: All right. We can go back on the record. Mr. Clement, I |
| 15 16 17 | A | once irrigation stops, you recall that, right? We are talking about the difference between irrigation and nonirrigated land, yes. | 14 15 16 17 | PRESIDING OFFICER: All right. We can go back on the record. Mr. Clement, I will get you sworn in here, would you |
| 15 16 17 18 | A | once irrigation stops, you recall that, right? We are talking about the difference between irrigation and nonirrigated land, yes. Okay. And so your sense would be that if you go | 14 15 16 17 18 | PRESIDING OFFICER: All right. We can go back on the record. Mr. Clement, I will get you sworn in here, would you |
| 15 16 17 18 19 | A | once irrigation stops, you recall that, right? We are talking about the difference between irrigation and nonirrigated land, yes. Okay. And so your sense would be that if you go back to the previous slide, and I'll read the | 14 15 16 17 18 19 | PRESIDING OFFICER: All right. We can go back on the record. Mr. Clement, I will get you sworn in here, would you please raise your right hand. |
| 15 16 17 18 19 20 | A | once irrigation stops, you recall that, right? We are talking about the difference between irrigation and nonirrigated land, yes. Okay. And so your sense would be that if you go back to the previous slide, and I'll read the entire thing, The BGW groundwater model was | 14 15 16 17 18 19 20 | PRESIDING OFFICER: All right. We can go back on the record. Mr. Clement, I will get you sworn in here, would you please raise your right hand. DANIEL WAYNE CLEMENT, |
| 15 16 17 18 19 20 21 | A | once irrigation stops, you recall that, right? We are talking about the difference between irrigation and nonirrigated land, yes. Okay. And so your sense would be that if you go back to the previous slide, and I'll read the entire thing, The BGW groundwater model was premised on the concept of increased groundwater | 14 15 16 17 18 19 20 21 | PRESIDING OFFICER: All right. We can go back on the record. Mr. Clement, I will get you sworn in here, would you please raise your right hand. DANIEL WAYNE CLEMENT, having first duly sworn or affirmed, was |
| 15 16 17 18 19 20 21 22 | A | once irrigation stops, you recall that, right? We are talking about the difference between irrigation and nonirrigated land, yes. Okay. And so your sense would be that if you go back to the previous slide, and I'll read the entire thing, The BGW groundwater model was premised on the concept of increased groundwater recharge from precipitation on irrigated land. | 14 15 16 17 18 19 20 21 22 | PRESIDING OFFICER: All right. We can go back on the record. Mr. Clement, I will get you sworn in here, would you please raise your right hand. DANIEL WAYNE CLEMENT, having first duly sworn or affirmed, was |
| 15 16 17 18 19 20 21 22 23 | A | once irrigation stops, you recall that, right? We are talking about the difference between irrigation and nonirrigated land, yes. Okay. And so your sense would be that if you go back to the previous slide, and I'll read the entire thing, The BGW groundwater model was premised on the concept of increased groundwater recharge from precipitation on irrigated land. To be consistent with this premise when | 14 15 16 17 18 19 20 21 22 23 | PRESIDING OFFICER: All right. We can go back on the record. Mr. Clement, I will get you sworn in here, would you please raise your right hand. DANIEL WAYNE CLEMENT, having first duly sworn or affirmed, was examined and testified as follows: |

| Jur | y 21 | , 2023 | | Ŀа | warus County, Kansas & Kansas water Transfer Act |
|----------|------|--|----------|----|--|
| | | Page 721 | | | Page 723 |
| 1 | | DIRECT EXAMINATION | 1 | | move certain irrigation wells on the R9 Ranch to |
| 2 | BY | MR. TRASTER: | 2 | | new locations. Is that fair? |
| 3 | Q | Mr. Clement, state your name, business address | 3 | Α | Correct. |
| 4 | · | for the record, please. | 4 | Q | And those new locations would be new proposed |
| | Α | Sure, Daniel Wayne Clement, business address, | 5 | × | municipal wells; is that correct? |
| 6 | | 800 East First Street, Wichita, Kansas. | | Α | Correct, yes. |
| | Q | And by whom are you employed? | | Q | Those well locations were selected by who |
| | Ă | Burns & McDonnell. | 8 | × | were they selected by, the locations, were you |
| - | Q | And what is your position at Burns & McDonnell? | 9 | | involved in that process? |
| | Ă | I am a senior hydrogeologist with Burns & | 10 | A | I was involved in that process, yes. |
| 11 | | McDonnell. | 11 | | Were were other people involved? |
| 12 | 0 | How long have you been in that position? | 12 | | At the time, some discussions with the City but |
| | - | Ten and a half years now. | 13 | | largely myself. |
| | Q | And what did you do before that? | 14 | 0 | Okay. Jami, I didn't ask you for this, but what |
| | - | I worked with the Groundwater Management | 15 | × | I'd really like to have is 1 Exhibit 1-1. |
| 16 | | District Number 2 as their hydrologist. | 16 | | So can you identify this document, |
| 17 | 0 | So when you say with, do you mean for or | 17 | | Mr. Clement? |
| 18 | | For. | 18 | А | It appears to be a map of the ranch. And we'll |
| 19 | | You were an employee at GMD2? | 19 | 11 | have to zoom in a little bit because my eyes |
| 20 | | Correct. | 20 | | aren't that good. A map of the ranch showing |
| 21 | | And how long were you in that position? | 21 | | the proposed municipal well locations, they're |
| 22 | | Approximately three years. | 22 | | labeled by letter, A, B, C, D, et cetera. |
| 23 | | How many? | 23 | 0 | And, Jami, why don't you scroll to page 2, I |
| 24 | - | Three. | 24 | × | think it's a little easier to see. |
| 25 | | And before that, what did you do? | 25 | | Is the data on page 2 of Exhibit 1-1 |
| | | · • | | | 1.0 |
| | | Page 722 | | | Page 724 |
| 1 | Α | Worked at Kansas State University in their | 1 | | essentially the same as the or is it the same |
| 2 | | information technology department as I was | 2 | | as the data on the first page of Exhibit 1-1? |
| 3 | | getting my degree. | 3 | Α | Yes. |
| 4 | Q | And what is your degree in? | 4 | Q | Is this the map that you prepared? |
| 5 | А | I have a bachelor's of science in geology from | 5 | Α | Yes. |
| 6 | | Kansas State University. | 6 | Q | And just generally, is it fair to say that the |
| 7 | Q | And is that is geology but you're a | 7 | | blue dots on that map are irrigation wells that |
| 8 | | hydrologist, I mean, how does that work? | 8 | | were in place at one time? |
| 9 | А | Geology and hydrogeology naturally naturally | 9 | А | Correct. |
| 10 | | overlap. | 10 | Q | And they they've now been plugged and |
| 11 | Q | But you are employed now as a hydrogeologist? | 11 | | abandoned, have they not? |
| 12 | | Correct. | 12 | Α | Most of those wells are plugged and abandoned, |
| 13 | Q | In the course of your employment with Burns & | 13 | | yes. |
| 14 | | McDonnell, did you work with the City of Hays to | 14 | Q | So are there some that aren't? |
| 15 | | develop the attachments to the change | 15 | Α | I believe there are two that are left that were |
| 16 | | applications that were filed with DWR in June of | 16 | | essentially brand-new wells, only two to |
| 17 | | 2015? | 17 | | three years old, but the large majority are |
| 18 | | Yes. | 18 | _ | plugged and abandoned, yes. |
| 19 | Q | And were you the principal person who prepared | 19 | Q | So they're irrigating out of those two or three |
| 20 | | the maps that are the maps required to be | 20 | | wells? |
| 21 | | attached to those change applications? | 21 | Α | No, they are not. |
| 22 | | Yes. | 22 | Q | Well, why are they why did they leave them? |
| 23 | Q | Were the those change applications were | 23 | Α | As far as I know, perhaps cattle watering or |
| 1 | | required in part because the Cities were | 24 | | some other feature, but they've been capped, |
| 24 | | | | | |
| 24 25 | | requesting permission from the chief engineer to | 24 25 | | best of my knowledge. |

| | | us County, Kansas & Kansas water Transfer Act | T | July 21, 2023 |
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| | | Page 725 | | Page 727 |
| 1 | Q | Okay. So they're not they're not no | 1 Q | I want one eight, please. Actually, if you want |
| 2 | - | longer being used for irrigation, but they just | 2 | to just show it to us we can we can if |
| 3 | | weren't plugged and abandoned? | 3 | that's going to be a problem. So, Jami, will |
| | Α | Correct. | 4 | you zoom in to the top, show us keep zooming |
| 5 | | Okay, thank you. The map let's go back up to | 5 | it, that section right there. |
| 6 | - | page 1 of that Exhibit 1-1, there's some | 6 | It might be useful, Mr. Clement, if you |
| 7 | | semicircles that are in orange. Do you know why | 7 | could make some notes so that you can remember |
| 8 | | those semicircles are on this map? | 8 | the numbers and letters here, but I'm not |
| 9 | | In some discussions with the City, we wanted to | 9 | intending to create a new exhibit other than |
| 10 | | buffer even though the spacing requirement | 10 | just I thought maybe I could show you this |
| 11 | | would have been, I believe, a quarter mile, we | 11 | side by side. |
| 12 | | wanted to buffer the proposed municipal well | 12 | But this refers to an irrigation well in |
| 13 | | locations by an additional distance, and that | 13 | section 5 that is 2348 feet north and 3,773 feet |
| 14 | | distance was approximately one-half mile, which | 14 | west of the southeast corner of section 5, and I |
| 15 | | is what the orange circles are showing is a | 15 | would note that the rate is 1500 gallons per |
| 16 | | buffer from surrounding water permits, trying to | 16 | minute at that location. |
| 17 | | maintain that half-mile distance. | 17 | And I let's scroll down to the next box. |
| 18 | Q | So I think I understood what you said, but I | 18 | And this refers to a present present at the |
| 19 | - | want to make sure, are you saying that it would | 19 | time location of an irrigation well, also in |
| 20 | | have been permissible to move some some of | 20 | section 5, that is 1,264 feet north and |
| 21 | | these irrigation wells closer to neighboring | 21 | 1,340 feet west of the southeast corner of |
| 22 | | wells as long as they remained at least a | 22 | section 5, and the rate there is 1,035 gallons |
| 23 | | quarter mile away from the neighboring well? | 23 | per minute. I don't want to misquote that, but |
| 24 | Α | I believe that was the regulation at the time, | 24 | I want to so do you see that that's those |
| 25 | | yes. | 25 | are the numbers there in the I don't know if |
| | | | | |
| | | | | |
| | | Page 726 | | Page 728 |
| 1 | 0 | - | 1 | |
| 1 | Q | So you put those in orange, but would it be fair | 1 2 | Page 728 you can see them, but that is 1264 north and 1340 west of the southeast corner and |
| | | So you put those in orange, but would it be fair to say that they're sort of the blackout area | | you can see them, but that is 1264 north and 1340 west of the southeast corner and |
| 2 3 | | So you put those in orange, but would it be fair to say that they're sort of the blackout area where you're not going to put wells? | 2 | you can see them, but that is 1264 north and |
| 2 3 | A | So you put those in orange, but would it be fair to say that they're sort of the blackout area | 2 3 | you can see them, but that is 1264 north and 1340 west of the southeast corner and 1,035 gallons a minute? Agreed, yes. |
| 2 3 4 | A | So you put those in orange, but would it be fair to say that they're sort of the blackout area where you're not going to put wells? Correct, yeah, in this case, it would be | 2 3 4 A | you can see them, but that is 1264 north and 1340 west of the southeast corner and 1,035 gallons a minute? |
| 2 3 4 5 6 | A | So you put those in orange, but would it be fair to say that they're sort of the blackout area where you're not going to put wells? Correct, yeah, in this case, it would be showing the red would be showing where we | 2 3 4 A 5 Q | you can see them, but that is 1264 north and 1340 west of the southeast corner and 1,035 gallons a minute? Agreed, yes. And I we can go look at the others, but I'm |
| 2 3 4 5 6 | A Q | So you put those in orange, but would it be fair to say that they're sort of the blackout area where you're not going to put wells? Correct, yeah, in this case, it would be showing the red would be showing where we would not locate a well, municipal well. | 2 3 4 A 5 Q 6 | you can see them, but that is 1264 north and 1340 west of the southeast corner and 1,035 gallons a minute? Agreed, yes. And I we can go look at the others, but I'm just trying to okay. |
| 2 3 4 5 6 7 | A Q | So you put those in orange, but would it be fair to say that they're sort of the blackout area where you're not going to put wells? Correct, yeah, in this case, it would be showing the red would be showing where we would not locate a well, municipal well. Thank you. Jami, would you please turn show | 2 3 4 A 5 Q 6 7 | you can see them, but that is 1264 north and 1340 west of the southeast corner and 1,035 gallons a minute? Agreed, yes. And I we can go look at the others, but I'm just trying to okay. Jami, let's scroll back down or back up, |
| 2 3 4 5 6 7 8 | A Q | So you put those in orange, but would it be fair to say that they're sort of the blackout area where you're not going to put wells? Correct, yeah, in this case, it would be showing the red would be showing where we would not locate a well, municipal well. Thank you. Jami, would you please turn show Exhibit 1-12. And if you'd go down to the, I | 2 3 4 A 5 Q 6 7 8 | you can see them, but that is 1264 north and 1340 west of the southeast corner and 1,035 gallons a minute? Agreed, yes. And I we can go look at the others, but I'm just trying to okay. Jami, let's scroll back down or back up, I guess, to 11, 1011. That's the map where we |
| 2 3 4 5 6 7 8 9 | Q | So you put those in orange, but would it be fair to say that they're sort of the blackout area where you're not going to put wells? Correct, yeah, in this case, it would be showing the red would be showing where we would not locate a well, municipal well. Thank you. Jami, would you please turn show Exhibit 1-12. And if you'd go down to the, I think the easiest way is to look at the | 2 3 4 A 5 Q 6 7 8 9 | you can see them, but that is 1264 north and 1340 west of the southeast corner and 1,035 gallons a minute? Agreed, yes. And I we can go look at the others, but I'm just trying to okay. Jami, let's scroll back down or back up, I guess, to 11, 1011. That's the map where we were at. There you go. So let's zoom in so we |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | A Q A Q | So you put those in orange, but would it be fair to say that they're sort of the blackout area where you're not going to put wells? Correct, yeah, in this case, it would be showing the red would be showing where we would not locate a well, municipal well. Thank you. Jami, would you please turn show Exhibit 1-12. And if you'd go down to the, I think the easiest way is to look at the bookmarks and go to the amended change there you go, and then scroll down to page Bates page 1011 and it's a map that actually any one of these would be fine. This is the right one. Mr. Clement, can you see what that is? Yes. For the record, it's a concept well site E for file number 21,734, that's the Division of Water Resource file number 21,734, and it's Exhibit X to that to Exhibit 1-12, which is a series of | 2 3 4 5 0 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | you can see them, but that is 1264 north and 1340 west of the southeast corner and 1,035 gallons a minute? Agreed, yes. And I we can go look at the others, but I'm just trying to okay. Jami, let's scroll back down or back up, I guess, to 11, 1011. That's the map where we were at. There you go. So let's zoom in so we can kind of see Mr. Clement, I'm going to represent to you that that this line here you know what, back up, I want to talk cover something else first. So when you were preparing these maps, are you aware of the normal distance that someone can once a particular well location is established at a particular point, if a person drills a well that isn't in that at that precise point, is there a standard distance from that point that they can put the well in? |

- 24 A Correct, yes.
- **25** Q In this case, the Cities asked for a larger

25 BY MR. TRASTER:

24

MS. BUCK: One eight or one seven?

| July 21, 2023 Edwards Co | unty, Kansas & Kansas Water Transfer Act |
|--|---|
| Page 729 | Page 731 |
| 1 circle? 1 maintain | to surrounding water rights, the sort |
| | led-in area also truncates that hashed |
| | we would be able to locate the |
| | I municipal water. |
| | inderstand it, but for the the |
| | area in pink, you would have been able |
| | |
| | well in this little it's not a |
| | iangle but it looks like one, right? |
| 9 Q So when you were and are these maps to scale? 9 A Correct. | |
| | but the Cities instructed you and you |
| | her a map to say, well, we're not going |
| | well in that little triangle even |
| • | s within 1,000 foot and we're not |
| | put it anyplace where the pink |
| | e intersected the 1,000-foot-radius |
| 16 Q And in this and that became the starting 16 circle? | |
| 17point for the request for the location of a new17ACorrect. | |
| | . So based on the numbers, the figures |
| | ist discussed, and I will represent to |
| | believe, I should say I believe this |
| 21 as well, aren't there? 21 line here | at the east side of the |
| 22 A There are. 22 1,000-foo | ot-radius circle is the east line, east |
| 23 Q For example, you can move we already talked 23 side of se | ction 5. |
| 24about the fact that you can move a well as long24AOkay. | |
| | ou go up the one of the distances I |
| | |
| Page 730 | Page 732 |
| 1 move a well more than half a mile, can you? 1 gave you | and the other, would that be the |
| | ate location of one of the triangles? |
| 3 Q Okay. So it looks it looks like to me 3 A Yes. | C |
| | Id this other well over here be the on |
| | side of this map be the location of one |
| | er triangles? |
| 7 A Yeah, to me this is a geographical inter7 A Yes. | |
| | do you the combined rate for those |
| geographical information systems problem, so it's really geography, taking all of the other two wells | • |
| | 500 plus 1035. |
| | - |
| | |
| | |
| | iderstand it, then, the authorized rate |
| • | be withdrawn from these two wells |
| | would would equal 25 2,535 |
| | er minute if they were operating at |
| | authorized rate? |
| 18 move beyond a half mile, we simply drew the kind 18 A Correct, | - |
| | aware of the rate at which the Cities |
| | s & McDonnell is recommending the |
| | vert the new municipal wells? |
| an another the sheet are a start and the second sta | |
| | h municipal well is anticipated to |
| | h municipal well is anticipated to at approximately one-half million |
| 23that 1,000-foot radius, the red line that we23operate a | |
| 23that 1,000-foot radius, the red line that we23operate a24talked about for consideration. And also when24gallons a | at approximately one-half million |

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|---|--|--|--|
| | Page 733 | | Page 735 |
| 1 Q | 300 what's the ratio of 350 to 2,500 and I | 1 | well for irrigation purposes is 900 gallons per |
| 2 | mean, roughly? | 2 | minute. And so we have three wells that are |
| 3 A | It's a lot less. | 3 | across the south side, south half of section 5, |
| 4 Q | It's a lot less, thank you. Now so, yeah, | 4 | 4 and 5 at the south side of the ranch that |
| 5 | this this well that is off to the to the | 5 | that for irrigation purposes, let's see, 20 |
| 6 | left, I mean, it's not connected it's not | 6 | what'd we say, 2530 |
| 7 | going to be connected directly to what is | 7 A | • |
| 8 | well E, it's going to be connected to a | 8 Q | 2535 plus 900 would be 34 something, right, |
| 9 | different well? | 9 | 3432? So at the end of the day, we've got these |
| 10 A | Correct, those are consolidated to two different | 10 | three wells and it's being reduced to two wells |
| 11 | municipal well locations. | 11 | with I mean, the rates are going to be |
| 12 Q | And I I stand corrected, I mean, it's but | 12 | substantially less? |
| 13 | nevertheless there's going to be if you | 13 A | Yes. |
| 14 | return to irrigation and put those wells back in | 14 Q | Now can we go back? It froze? That happens. |
| 15 | those same places, you'd still be able to pump | 15 | I want to be really clear here, I'm not |
| 16 | 2530, whatever it was, acre-feet from those | 16 | saying anything about, you know I mean, I'm |
| 17 | these two locations for irrigation purposes, | 17 | not trying to equate, you know, rates the |
| 18 | right? | 18 | rates from those municipal wells, I mean, it's a |
| 19 A | Yes, they are authorized for that quantity. | 19 | more complicated factor than than maybe is |
| 20 Q | Right. And then this well, we can go look at | 20 | apparent from what I've said, but my point is |
| 21 | it, but I'm just going to tell you that there | 21 | that there's a significant rate decrease by |
| 22 | the record indicates that in the file for DWR | 22 | moving these wells around? |
| 23 | file number 21,842 at Bates number 1145 is a | 23 | And let's just stay right there. That |
| 24 | document similar to the rate and quantity that | 24 | also, file this is Exhibit 1-12, it's the |
| 25 | we that we saw for this particular file, and | 25 | same water right, there are multiple wells, this |
| | | | |
| | Page 734 | | Page 736 |
| 1 | Page 734 there's a well located at 1300 and you | 1 | Page 736 is another example of 1,000-foot-radius well |
| 1 2 | | 1 2 | - |
| | there's a well located at 1300 and you | | is another example of 1,000-foot-radius well |
| 2 | there's a well located at 1300 and you probably ought to write this down. | 2 | is another example of 1,000-foot-radius well that is truncated by the by the distance of |
| 2 3 | there's a well located at 1300 and you probably ought to write this down. Again, I'm sorry to make you do all this | 2 3 | is another example of 1,000-foot-radius well that is truncated by the by the distance of the from of half-mile distances from the |
| 2 3 4 | there's a well located at 1300 and you probably ought to write this down. Again, I'm sorry to make you do all this work, but it's my fault, I told Jami the wrong | 2 3 4 | is another example of 1,000-foot-radius well that is truncated by the by the distance of the from of half-mile distances from the three wells that are being consolidated there, right? |
| 2 3 4 5 | there's a well located at 1300 and you probably ought to write this down. Again, I'm sorry to make you do all this work, but it's my fault, I told Jami the wrong page. 1301 feet north and 3910 feet west of the | 2 3 4 5 | is another example of 1,000-foot-radius well that is truncated by the by the distance of the from of half-mile distances from the three wells that are being consolidated there, right? Correct, yeah, you can see the truncation, especially with the more southern located |
| 2 3 4 5 6 | there's a well located at 1300 and you probably ought to write this down. Again, I'm sorry to make you do all this work, but it's my fault, I told Jami the wrong page. 1301 feet north and 3910 feet west of the southeast corner of section 4 at 900 gallons a | 2 3 4 5 6 A | is another example of 1,000-foot-radius well that is truncated by the by the distance of the from of half-mile distances from the three wells that are being consolidated there, right? Correct, yeah, you can see the truncation, |
| 2 3 4 5 6 7 | there's a well located at 1300 and you probably ought to write this down. Again, I'm sorry to make you do all this work, but it's my fault, I told Jami the wrong page. 1301 feet north and 3910 feet west of the southeast corner of section 4 at 900 gallons a minute. So because this is this is section and section these sections are at a correction line so they're fairly tall | 2 3 4 5 6 A 7 | is another example of 1,000-foot-radius well that is truncated by the by the distance of the from of half-mile distances from the three wells that are being consolidated there, right? Correct, yeah, you can see the truncation, especially with the more southern located irrigation well effectively cuts off a big chunk of where that 1,000-foot radius would otherwise |
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| 2 3 4 5 6 7 8 9 10 11 | there's a well located at 1300 and you probably ought to write this down. Again, I'm sorry to make you do all this work, but it's my fault, I told Jami the wrong page. 1301 feet north and 3910 feet west of the southeast corner of section 4 at 900 gallons a minute. So because this is this is section and section these sections are at a correction line so they're fairly tall sections so it looks out of kilter, it looks out of sync. But and the Cities don't own the | 2 3 4 5 6 A 7 8 9 10 11 Q | is another example of 1,000-foot-radius well that is truncated by the by the distance of the from of half-mile distances from the three wells that are being consolidated there, right? Correct, yeah, you can see the truncation, especially with the more southern located irrigation well effectively cuts off a big chunk of where that 1,000-foot radius would otherwise allow. And if you would have moved the municipal well a |
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| 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 A 20 Q 21 A 22 | there's a well located at 1300 and you probably ought to write this down. Again, I'm sorry to make you do all this work, but it's my fault, I told Jami the wrong page. 1301 feet north and 3910 feet west of the southeast corner of section 4 at 900 gallons a minute. So because this is this is section and section these sections are at a correction line so they're fairly tall sections so it looks out of kilter, it looks out of sync. But and the Cities don't own the southeast quarter of section 4, so this is the southwest quarter of section 4, and if if assuming that to be the case, if you were to go 1301 feet north and 3910 feet west of the southeast quarter of section 4, would you be in the approximate location of this well that is labeled 21,842 that I've got my pointer on? Yes. You sounded hesitant? That's okay, I think I think we're in the same space now. | 2 3 4 5 6 A 7 8 9 10 11 Q 12 13 14 A 15 Q 16 17 18 19 20 21 22 | is another example of 1,000-foot-radius well that is truncated by the by the distance of the from of half-mile distances from the three wells that are being consolidated there, right? Correct, yeah, you can see the truncation, especially with the more southern located irrigation well effectively cuts off a big chunk of where that 1,000-foot radius would otherwise allow. And if you would have moved the municipal well a little bit south, you could have probably picked up a little more? Correct. Can you, based on what we've talked about today Jami, can you put pull up Exhibit 1-7 and go to page 617? While I'm while she's doing that, based on the information that you have available to you at this moment, can you quantify the impact or the reduction in actual rate that is going to |

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| | | Page 737 | | _ | Page 739 |
| 1 | | don't have the information really to know | 1 | | producing, is that correct, than it presently |
| 2 | | exactly what those how that how other | 2 | | does or did under irrigation? |
| 3 | | wells are going to be affected? | 3 | A | Yes, there will be less total municipal wells |
| 4 | Α | I believe the question you're asking is how will | 4 | | than total irrigation wells that formerly |
| 5 | | drawdown change because there's a significant | 5 | | operated. |
| 6 | | reduction in the rate that these wells will | 6 | Q | And the rate of production is reduced as well? |
| 7 | | pump, especially seasonally. | 7 | A | Yes. |
| 8 | Q | Well, that wasn't my question, but that's where | 8 | Q | And in many cases significantly reduced? |
| 9 | | I was headed so | 9 | A | Yes. |
| 10 | Α | Okay. I don't have the calculations to give you | 10 | Q | And the well locations will, in several |
| 11 | | a number, but because the pumping rate is less, | 11 | | instances, be further away from adjoining |
| 12 | | then the drawdown must be less. | 12 | | property owners' wells? |
| 13 | Q | And the rate is pretty dramatic, it's | 13 | A | Yes. |
| 14 | | dramatically less? | 14 | Q | No other questions. Thank you. |
| 15 | Α | It's order of magnitude, yes. | 15 | | PRESIDING OFFICER: Mr. Lee? |
| 16 | | Thank you. Looking at the image on the screen, | 16 | | MR. LEE: Thank you, Your Honor. |
| 17 | - | I'll represent to you that this is concept | 17 | | • |
| 18 | | well G with associated with file 21,730, and | 18 | | CROSS-EXAMINATION |
| 19 | | it's Exhibit Q to that file, and I just wanted | 19 | В | Y MR. LEE: |
| 20 | | to point out that there's another factor. You | 20 | Q | Mr. Clement, as you may have heard, I'm Charles |
| 21 | | mentioned distance to the half-mile limit on | 21 | - | Lee so I won't belabor that. Just really a |
| 22 | | moving wells, but the this in this case | 22 | | couple questions. When you were talking about |
| 23 | | this is on the west side of the ranch, and that | 23 | | drawdown, you used the phrase order of |
| 24 | | blue line, what does that mean to you? | 24 | | magnitude, I am assuming you're using that in a |
| 25 | Α | That's looks to be the Arkansas River. | 25 | | conversational sense and not as a ten times |
| | | | | | |
| | | Page 738 | | | Page 740 |
| 1 | Q | So we heard earlier today that there's a | 1 | | difference? |
| 2 | | limitation you cannot move irrigation wells more | 2 | A | 8 |
| 3 | | than 10 percent closer to the centerline of the | 3 | | pumping reduction, not the quantifiable amount |
| 4 | | creek? | 4 | | of drawdown. |
| | | Correct. | 5 | Q | |
| 6 | Q | And is that but for that limitation, there | 6 | | to be technical about it, is a factor of ten, I |
| 7 | | would be these two wells could be moved up to | 7 | | am assuming you're not talking about that? |
| 8 | | the north and basically use the whole half, | 8 | A | I'm referring to order of magnitude as, yes, as |
| 9 | | bottom half not half exactly but the bottom | 9 | | a factor of ten, yes. |
| 10 | | half of that radius circle, but of that | 10 | ~ | You are. |
| 11 | | 1,000-foot-radius circle, but that's you also | 11 | A | , <u> </u> |
| 12 | | truncated these well locations based on other | 12 | | purposes of today, yeah, is ten. |
| 13 | | regulations as well? | 13 | Q | • |
| 14 | Α | Yes, the purple area is also truncated by the | 14 | A | Approximately ten. |
| 15 | | limitation of moving no more than 10 percent | 15 | Q | And you were you were asked a question or a |
| | | | | | series of questions about the difference in |
| 16 | | closer to the river. | 16 | | - |
| 16 17 | Q | closer to the river. Okay. I had another map I wanted to show you, | 16 17 | | pumping volume essentially over time. That |
| | Q | closer to the river. Okay. I had another map I wanted to show you, but, Mr. Clement, thank you, I have no further | | | pumping volume essentially over time. That would be that difference would be moderated, |
| 17 | Q | closer to the river. Okay. I had another map I wanted to show you, but, Mr. Clement, thank you, I have no further questions. | 17 | | pumping volume essentially over time. That would be that difference would be moderated, would it not, because of the year-round pumping |
| 17 18 | Q | closer to the river. Okay. I had another map I wanted to show you, but, Mr. Clement, thank you, I have no further | 17 18 | | pumping volume essentially over time. That would be that difference would be moderated, would it not, because of the year-round pumping that is contemplated with the municipal use as |
| 17 18 19 | Q | closer to the river. Okay. I had another map I wanted to show you, but, Mr. Clement, thank you, I have no further questions. PRESIDING OFFICER: Mr. Cole? | 17 18 19 | | pumping volume essentially over time. That would be that difference would be moderated, would it not, because of the year-round pumping that is contemplated with the municipal use as compared to seasonal irrigation? |
| 17 18 19 20 | Q | closer to the river. Okay. I had another map I wanted to show you, but, Mr. Clement, thank you, I have no further questions. | 17 18 19 20 | A | pumping volume essentially over time. That would be that difference would be moderated, would it not, because of the year-round pumping that is contemplated with the municipal use as compared to seasonal irrigation? Could you repeat the question? |
| 17 18 19 20 21 | _ | closer to the river. Okay. I had another map I wanted to show you, but, Mr. Clement, thank you, I have no further questions. PRESIDING OFFICER: Mr. Cole? CROSS-EXAMINATION Y MR. COLE: | 17 18 19 20 21 | | pumping volume essentially over time. That would be that difference would be moderated, would it not, because of the year-round pumping that is contemplated with the municipal use as compared to seasonal irrigation? Could you repeat the question? Sure. Maybe to break it into more digestible |
| 17 18 19 20 21 22 | BY | closer to the river. Okay. I had another map I wanted to show you, but, Mr. Clement, thank you, I have no further questions. PRESIDING OFFICER: Mr. Cole? CROSS-EXAMINATION | 17 18 19 20 21 22 | Q | pumping volume essentially over time. That would be that difference would be moderated, would it not, because of the year-round pumping that is contemplated with the municipal use as compared to seasonal irrigation? Could you repeat the question? |

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|--|----------------------------|--|--|--|---|
| | | Page 741 | | | Page 743 |
| 1 | A | Yes. | 1 | | greater than an order of magnitude ten times |
| | Q | So in other words, it doesn't go on year-round? | 2 | | more, but there's also conversational order of |
| | Q A | Yes. | 3 | | magnitude. You didn't do the math to know |
| | Q | And pumping for municipal purposes is a | 4 | | whether it was actually ten times or more |
| 5 | Q | year-round activity? | 5 | | greater, did you? |
| | A | It can be, yes. | 6 | | No, I I have not calculated decimal dust in |
| | Q | And would be contemplated here, wouldn't it? | 7 | | this situation, no. |
| | Q A | Sure, yes. | 8 | _ | It's just simply more, conversationally a lot |
| | Q | So there isn't that isn't simply a gross | 9 | - | more? |
| 10 | Q | difference in the sense of looking at the rate | _ | Α | Yes. |
| 11 | | and making that distinction because during part | - | Q | Okay, thank you. Now, one of the things I was |
| 12 | | of the year in irrigation use, the pumps aren't | 12 | - | trying to get to is the idea that changing from |
| 13 | | going to be on, right? | 13 | | irrigation to municipal is going to have less of |
| 14 | Δ | Let me think about that for a second. There is | 14 | | an impact on the neighboring irrigation wells, |
| 15 | 11 | a difference in time, in total operating time | 15 | | but if if it returns to irrigation, it seems |
| 16 | | that an irrigation well would pump and that a | 16 | | to me, I'm not a hydrologist, it seems to me |
| 17 | | municipal well may pump. | 17 | | that the impact the interference of drilling |
| 18 | 0 | So if it's more complicated than simply | 18 | | three wells within within a mile of someone |
| 19 | × | saying that this well pumps at 10 gallons and | 19 | | else's irrigation well would have a |
| 20 | | this well pumps at five to come up with that | 20 | | significantly larger impact than one 350-gallon |
| 21 | | five difference if there is a difference in how | 21 | | permanent well. Is that fair? |
| 22 | | long or what the duration of the pumping is? | | Α | The seasonal impacts would be different, yes. |
| 23 | Α | Correct. | | Q | Well, but the rate the rate of withdrawal at, |
| 24 | | Okay. Thank you. | 24 | - | what'd we say, 3435 from three wells nearby |
| 25 | ` | MR. LEE: I don't have anything | 25 | | would be quite a lot greater than one well at |
| | | | | | |
| | | | | | |
| | | Page 742 | | | Page 744 |
| 1 | | - | 1 | | - |
| 1 | | else, Your Honor. | 1 | | one or two wells at at 350 gallons a minute? |
| 2 | | - | 2 | A | one or two wells at at 350 gallons a minute? Yeah, because the rate would be less, yes. |
| | | else, Your Honor. PRESIDING OFFICER: Mr. Traster? | 2 3 | A Q | one or two wells at at 350 gallons a minute? Yeah, because the rate would be less, yes. And seasonality matters, rate matters, yes? |
| 2 3 | В | else, Your Honor. PRESIDING OFFICER: Mr. Traster? REDIRECT EXAMINATION | 2 3 4 | A Q A | one or two wells at at 350 gallons a minute? Yeah, because the rate would be less, yes. And seasonality matters, rate matters, yes? Yes. |
| 2 3 4 5 | | else, Your Honor. PRESIDING OFFICER: Mr. Traster? REDIRECT EXAMINATION Y MR. TRASTER: | 2 3 4 5 | A Q A Q | one or two wells at at 350 gallons a minute? Yeah, because the rate would be less, yes. And seasonality matters, rate matters, yes? Yes. Quantity matters? |
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| 1 PRESIDING OF | FICER: I have no | 1 | SO |
| 2 objection, go ahead. | | 2 | PRESIDING OFFICER: We can go ahead |
| 3 BY MR. TRASTER: | | 3 | and go off the record for this. |
| 4 Q So, Mr. Clement, what's | this have you seen | 4 | (Thereupon, a recess was taken; |
| 5 this before? | | 5 | whereupon, the following was had.) |
| 6 A Yes, I created it. | | 6 | PRESIDING OFFICER: We'll go ahead |
| 7 Q You what? | | 7 | and go back on the record here for just a |
| 8 A I created this map, yes. | | 8 | moment. So parties had some brief |
| 9 Q And does this just basica | | 9 | discussion about working out some |
| 10 areas on the ranch within | • | 10 | scheduling issues for next week, we will |
| 11 could be drilled, the varie | | 11 | pick up at 1:30 in the afternoon on Monday |
| 12 non-truncated circles? | | 12 | to resume the hearing. |
| 13 A Yes. | | 13 | Then there was the motion that has been |
| 14 Q How come there's no v | what happens on well J? | 14 | filed by Water PACK regarding the exclusion |
| 15 A Well J, it so happens w | | 15 | of Mr. Barfield's rebuttal testimony, |
| 16 constraints that we just | | 16 | excluding him as an expert witness. I'm |
| 17 very small potential wel | | 17 | going to overrule their objection, |
| 18 that footprint. | | 18 | Mr. Barfield will be allowed to testify. I |
| 19 Q Okay. That's all, I just w | anted to provide an | 19 | think most of the issues there are going to |
| 20 opportunity to see the glo | - | 20 | be come down to what they've addressed, |
| 21 all. No further questions. | - | 21 | and I think as Mr. Traster's response |
| 22 Mr. Clement. | 2 | 22 | addressed there, they are issues of |
| 23 MR. COLE: No 6 | questions. | 23 | credibility and how much weight should be |
| 24 PRESIDING OF | - | 24 | put on whatever his opinion may be. |
| | ng, Your Honor, thank | 25 | When you question when you have a |
| | | | |
| | Page 746 | | Page 748 |
| 1 you. | | 1 | chance to cross-examine him, you can |
| 2 PRESIDING OF | FICER: All right. | 2 | question him on any of those issues that |
| 3 MR. TRASTER: | We have no further | 3 | you have concerns about. Since this is an |
| 4 witnesses ready to go a | at this time today. | 4 | administrative proceeding, those rules of |
| 5 PRESIDING OF | FICER: Okay. All | 5 | evidence are relaxed and a lot of it comes |
| 6 right. Well, looks like | we will end a | 6 | down to just weighing the putting the |
| 7 little bit early today, th | en, and we will | 7 | appropriate weight on the testimony offered |
| 8 pick up on Monday, sta | art up at 1:30 in the | 8 | by the various parties and various |
| 9 afternoon on Monday. | We've been moving a | 9 | individuals who provide that expert |
| 10 little faster with these l | ast several | 10 | testimony. |
| 11 witnesses, and I think a | as most hearings or | 11 | So you can question him what you want on |
| 12 trials go, it's usually the | ose first few | 12 | that, Mr. Lee, as far as, you know, how |
| 13 witnesses who are the | longer witnesses, and | 13 | reliable or credible his opinion would be, |
| 14 I'm hoping that kind of | continues along | 14 | but he will be allowed to appear as an |
| 15 that path given that, wh | hat, there's still | 15 | expert and you can offer his testimony. |
| 16 13, 14 witnesses poten | tially between | 16 | MR. LEE: Thanks for your |
| 17 everybody that we need | d to address over the | 17 | consideration, Your Honor. |
| 18 next week and a half. | | 18 | MR. TRASTER: Thank you, Your Honor. |
| MR. LEE: Your I | Honor, I might | 19 | MR. BULLER: Your Honor, will you be |
| 20 inquire of Mr. Traster, | Mr. Buller, we at | 20 | issuing a written ruling on that? |
| 21 this point are looking r | naybe to bring our | 21 | PRESIDING OFFICER: I'm not going to |
| 22 experts on Wednesday | of next week. Does | 22 | do a written one before the final |
| 23 that seem reasonable? | | 23 | MR. BULLER: Okay. |
| 24 MR. BULLER: W | Vell, we plan we | 24 | PRESIDING OFFICER: order here. |
| 1 1 1 | · 1 | | |
| 25 have experts, at least o | ne flying in, and | 25 | I guess technically the initial order that |

| Luwart | is County, Kansas & Kansas water Transfer Act | | July 21, 2023 |
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| 1 | will come out following the end of the | 1 | PRESIDING OFFICER: All right. |
| 2 | hearing here, but in there it will be | 2 | Thank you, everybody, have a good weekend, |
| 3 | included in there that on the record it was | 3 | we are adjourned until 1:30 on Monday. |
| 4 | addressed. | 4 | (Whereupon, the proceedings were |
| 5 | MR. BULLER: Thank you. | 5 | adjourned at 5:01 p.m.) |
| 6 | MR. TRASTER: Your Honor, one | 6 | |
| 7 | question about that, are you do you want | 7 | |
| 8 | findings of fact, proposed findings of | 8 | |
| 9 | fact, conclusions of law briefing on | 9 | |
| 10 | issues? Have you given that any thought? | 10 | |
| 11 | PRESIDING OFFICER: I think that's | 11 | |
| 12 | something that the parties kind of | 12 | |
| 13 | indicated they would like to do, and in a | 13 | |
| 14 | case where we have attorneys on all sides | 14 | |
| 15 | there, it makes it a lot easier for that to | 15 | |
| 16 | be done than in those cases where one party | 16 | |
| 17 | is self-represented, doesn't understand the | 17 | |
| 18 | whole aspect of how that works there. | 18 | |
| 19 | So we'll work out, as we get further | 19 | |
| 20 | along in the process, kind of what seems to | 20 | |
| 21 | be a reasonable schedule for that once we | 21 | |
| 22 | conclude the hearing for a deadline for | 22 | |
| 23 | filing any of your closing briefs, if you | 23 | |
| 24 | want to do closing briefs instead of | 24 | |
| 25 | closing statements. Usually in longer | 25 | |
| | Page 750 | | Page 752 |
| _ | | 1 | CERTIFICATE |
| 1 | hearings like this, I've seen that parties | 2 | STATE OF KANSAS) |
| 2 | tend to prefer to do that as opposed to try | 3 |) ss: SEDGWICK COUNTY) |
| 3 | and summarize everything in a 15-minute | 4 | I, Nancy L. Rambo, a Certified Shorthand |
| 4 | speech. We'll work out a schedule that's | 5 | Reporter, within and for the State of Kansas, do |
| 5 | going to be acceptable to everybody there | 6 | hereby certify that the foregoing is a true and |
| 6 | and still allow time for me to get a | 7 | correct transcript of the proceedings had at the |
| 7 | decision out. | 8 | time and place hereinbefore set forth. |
| 8 | MR. TRASTER: Does that mean you're | 9 | I further certify that I am not a relative |
| 9 | not going to rule from the bench in this | 10 | or employee or attorney or counsel of any of the |
| 10 | case? PRESIDING OFFICER: I will not rule | 11 | parties, nor am I a relative or employee of such |
| 11 12 | from the bench, we'll leave some time for | 12 | attorney or counsel, nor am I financially |
| 12 | | 13 | interested in the action. |
| 13 14 | the commenting agencies to finalize everything and comments they want to submit | 14 | WITNESS my hand and official seal at |
| 15 | to the record and for those findings that | 15 | Winkess my hand and official seaf at Wichita, Sedgwick County, Kansas, this 3rd day of |
| 10 | to the record and for those findings that | | |

- for those findings that 16 the parties would like to present with
- 17 their closing arguments. 18
- MR. TRASTER: Thank you, Your Honor. 19 MR. LEE: Thanks, Your Honor.
 - PRESIDING OFFICER: Any other
- 20 questions before we break for the weekend? 21 22 MR. TRASTER: Have a lot of 23 questions but probably not ones that are appropriate in this forum. Thank you so 24

- NANCY L. RAMBO, R.P.R., C.S.R. Registered Professional Reporter Certified Shorthand Reporter
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- Costs:

August, 2023.

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