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NEBRASKA
DEPT. OF NATURAL RESOURCES

Nebraska Excess Flow Annual Operating Plan

DSS Id: 13
Appropriator: Western Irrigation District
Address: 1351 Road West 40 Brule, NE 69127

Water Rights Id: Pending
Point of Diversion: Western Diversion Dam
Phone Number: (308) 889-3518

Permit Type: Temporary
Annual Operating Plan Year: 2022
E-mail: dennismsfltd@atcjet.net

✓ Submitted
Status

In Progress
Application Filing Fee Received & NeDNR Filing Review

Upcoming
Application Approval

Permit Application (*Alternate Form APA-001*)

What Is the Recharge Application Type? *Natural Flow*

Source Name (From Point of Diversion) *Western Canal from South Platte River*

Diversion Type (From Point of Diversion) *Headgate*

Diversion Structure Name (From Point of Diversion) *Western Diversion Dam*

Maximum Capacity of Canal or Delivery Works (CFS) (From Point of Diversion) *250*

Quantity Desired for Recharge Appropriation (CFS) *176.26*

What is the Minimum Operational Rate of the Canal (CFS) *20*

What is the Earliest Diversion Date? *04/01/2022*

Will This Project Be Constructed under a Federal Program, Receive Federal Funding, or Have Federal Planning Assistance? *No*

Do You Intend to Divert Water into Recharge Facilities Other than Your Canal? *Yes*

How Many Recharge Facilities Will Be Utilized under This Application? *33*

Annual Operating Plan

General System Operations (*AOP*)

Yes | No **Do You Use This System to Irrigate?**

Diversion Begin Date *05/16/2022*

Diversion End Date *10/17/2022*

Delivery to Irrigators Begin Date *05/16/2022*

Delivery to Irrigators End Date *10/17/2022*

Irrigation Narrative (optional) *The diversion dates are based off of the spreadsheet attached below. These are the average first and last diversion dates as provided by the DNR Integrated water management folks. Historically there have been some acres of hay and alfalfa irrigated off of the canal. The row crop deliveries typically don't occur until later in the summer. Row crop deliveries typically end earlier than the hay deliveries as well. In a normal year, the irrigation canal generally takes water to flush the main & laterals for about 2 weeks prior to needing irrigation water. Timing is dependent on precipitation. This generally occurs around the last week of April to the first week of May. The canal does have some non-traditional row crops such as alfalfa & grass that will take a small amount of irrigation water earlier. The bulk of the irrigation occurs for corn & soybean crops, and those usually take water from late June to the first week of July and run thru September 20th. After the last round of irrigation, the canal pulls all the check boards and runs water down the canal for 10-12 days to clean out all of the piled up sand and mud to restore the bottom of the canal to a flat surface for the next year.*

Irrigation Use Uploads (Optional)

No files uploaded.

Yes | No **Do You Use This System to Generate Hydropower?**

Yes | No **Do You Use This System for Storage?**

Narrative for All Non-excess Flow Activities That Would Affect the Ability to Divert Excess Flows (Optional)

Partners & Sponsors

Sponsor 1

Name of Entity Paying for Recharge at this Facility *Twin Platte Natural Resources District*

Per Acre-foot Cost Basis for Recharge at This Facility *Recharged*

Max Volume per Annum *21000*

Upload Sponsor Documents

5 year MOA Westerm (2018-2022) Excess Flow Contract #1010 - Signed.pdf [https://dssdnr.nebraska.gov/filedownload/26]

Sponsor 2

Name of Entity Paying for Recharge at this Facility *South Platte Natural Resources District*

Per Acre-foot Cost Basis for Recharge at This Facility *Recharged*

Max Volume per Annum *8500*

Upload Sponsor Documents

5 year MOA Westerm (2018-2022) Excess Flow Contract #1010 - Signed.pdf [https://dssdnr.nebraska.gov/filedownload/27]

Recharge Facilities (*AOP*)

Western Canal

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Western Canal*

Type of Facility *Canal*

Delivery Point Coordinates

Latitude *41.01651* **Longitude** *-102.1764*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional): **End Date of Constraints (Optional):**

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *176.26*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *165.84*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *19762.32*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *3.5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *89.98*

Are Engineering Drawings Available? *No*

Partners & Sponsors

- **Twin Platte Natural Resources District** *(contract uploaded)*
- **South Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Outflow

Name of Outflow Measurement Site *Western Canal Return Spill*

Geographic Coordinates of Measurement Device

Latitude *41.0816* **Longitude** *-101.768*

Recorder Type *Bubble*

Recording Increments *15 Minute*

Live Data Feed available to NeDNR? *Yes*

Instrument 2 - Inflow

Name of Inflow Measurement Site *Western Canal Diversion Gage*

Geographic Coordinates of Measurement Device

Latitude *41.01651*

Longitude *-102.1764*

Recorder Type *Bubble*

Recording Increments *15 Minute*

Live Data Feed available to NeDNR? *Yes*

Pit 17 - P Armstrong East

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 17 - P Armstrong East*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.054439*

Longitude *-101.964714*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditons*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.3*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.3*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *36*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *6*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.3*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **Twin Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *P Armstrong - East Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0548*

Longitude *-101.9665*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 16 - B Armstrong #2

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 16 - B Armstrong #2*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.041584*

Longitude *-101.966527*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *1.41*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *1.41*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *168*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *4.5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *1.4*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **Twin Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *B Armstrong #2 Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0416*

Longitude *-101.9676*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 15 - Schilz W #5

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 15 - Schilz W #5*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.062148*

Longitude *-101.893016*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.07*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.07*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *9*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *6*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.11*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **Twin Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Schilz #5 Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.062*

Longitude *-101.8942*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 14 - Frates

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 14 - Frates*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.061451*

Longitude *-101.886169*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.18*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.18*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *21.4*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *5.5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.3*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **Twin Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Frates Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0618*

Longitude *-101.8906*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 13 - Schilz #2

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 13 - Schilz #2*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.077021*

Longitude *-101.863808*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.12*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.12*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *14.4*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *6*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.4*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **Twin Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Schilz #2 Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0772*

Longitude *-101.8652*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 12 - Schilz #4

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 12 - Schilz #4*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.062002*

Longitude *-101.855912*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.2*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.2*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *24*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *7*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.2*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **Twin Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Schilz #2 Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.062*

Longitude *-101.8577*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

Pit 11 - Schilz #3

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 11 - Schilz #3*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.0639*

Longitude *-101.849818*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.16*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.16*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *19.2*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *6.5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.16*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **Twin Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Schilz # 3 Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0639*

Longitude *-101.8505*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 10 - Schilz #6

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 10 - Schilz #6*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.065688*

Longitude *-101.840228*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.05*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.05*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *5.76*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *5.5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.16*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **Twin Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Schilz #6 Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0657*

Longitude *-101.8409*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 9 - Schilz # 1

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 9 - Schilz # 1*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.068768*

Longitude *-101.835378*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.05*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.05*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *6.12*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *6.5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.17*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **Twin Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Schilz # 1 Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0688*

Longitude *-101.8368*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 8 - Flaming #2

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 8 - Flaming #2*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.076328*

Longitude *-101.835283*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.24*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.24*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *28.8*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.8*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **Twin Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Flaming # 2 Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0759*

Longitude *-101.8377*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 7 - Flaming #1

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 7 - Flaming #1*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.069734*

Longitude *-101.826519*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.06*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.06*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *7.2*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *6.5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.2*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **Twin Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Flaming #1 Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.07*

Longitude *-101.8283*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 6 - Schilz East of Feedlot

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 6 - Schilz East of Feedlot*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.085719*

Longitude *-101.826696*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.3*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.3*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *36*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *4.5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *3*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

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Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Schilz East of Feedlot Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.086*

Longitude *-101.8285*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 5 - Flaming Home #2 (Wright)

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 5 - Flaming Home #2 (Wright)*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.087098*

Longitude *-101.815828*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.27*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.27*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *32.4*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.9*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

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Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Flaming Home #2 (Wright) Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0867*

Longitude *-101.8172*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 4 - Flaming Home (Wright)

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 4 - Flaming Home (Wright)*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.085253*

Longitude *-101.806067*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.15*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.15*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *18*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *4.5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.5*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

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Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Flaming Home (Wright) Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0866* **Longitude** *-101.8102*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 3 - Svoboda

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 3 - Svoboda*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.075984* **Longitude** *-101.804206*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional): **End Date of Constraints (Optional):**

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.2*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.2*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *24*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *4.5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *1.9*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

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Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Svoboda Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0755* **Longitude** *-101.8055*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 2 - Western Canal Pit

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 2 - Western Canal Pit*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.077602*

Longitude *-101.790674*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.28*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.28*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *33.6*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *4*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *2.8*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

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Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Western Canal Pit Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0773*

Longitude *-101.7933*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 1 - Flaming Interstate

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 1 - Flaming Interstate*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.097721*

Longitude *-101.790212*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.71*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.71*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *84*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *6.5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.7*

Are Engineering Drawings Available? *Yes*

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Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Flaming Interstate Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0973*

Longitude *-101.7927*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 18 - P Armstrong W

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 18 - P Armstrong W*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.054427*

Longitude *-101.976651*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.21*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.21*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *25.2*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *5*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.7*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

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Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *P Armstrong W Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0545*

Longitude *-101.9778*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

Pit 19 - B Armstrong #1

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *Pit 19 - B Armstrong #1*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.047158*

Longitude *-101.975795*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *Does not operate under prolonged freezing conditions.*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.3*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.3*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *36*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *7*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.3*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

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Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *B Armstrong #1 Staff Gage*

Geographic Coordinates of Measurement Device

Latitude *41.0472*

Longitude *-101.9763*

Recorder Type *Staff Gage*

Recording Increments *Weekly*

Live Data Feed available to NeDNR? *No*

SPNRD #1

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #1*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.01969*

Longitude *-102.161833*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.11*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.11*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *12.6*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *9*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.64*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

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Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Harris*

Geographic Coordinates of Measurement Device

Latitude *41.01969*

Longitude *-102.161833*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

SPNRD #2

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #2*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.015346* **Longitude** *-102.143596*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional): **End Date of Constraints (Optional):**

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.16*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.16*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *18.6*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *9*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.22*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

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Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Huskerland West*

Geographic Coordinates of Measurement Device

Latitude *41.015346* **Longitude** *-102.143596*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

SPNRD #3

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #3*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.018402*

Longitude *-102.136507*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.12*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.12*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *13.8*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *8*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.222*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

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Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Huskerland East*

Geographic Coordinates of Measurement Device

Latitude *41.018402*

Longitude *-102.136507*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

SPNRD #4

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #4*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.027906*

Longitude *-102.137559*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.3*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.3*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *36*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *6*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *1.376*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

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Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Palser West*

Geographic Coordinates of Measurement Device

Latitude *41.027906*

Longitude *-102.137559*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

SPNRD #5

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #5*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.033142*

Longitude *-102.109808*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.09*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.09*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *10.2*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *10*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.358*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **South Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Bogenhagen*

Geographic Coordinates of Measurement Device

Latitude *41.033142*

Longitude *-102.109808*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

SPNRD #6

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #6*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.021343*

Longitude *-102.112954*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.39*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.39*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *46*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *8*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.624*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **South Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Palser House*

Geographic Coordinates of Measurement Device

Latitude *41.021343*

Longitude *-102.112954*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

SPNRD #7

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #7*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.029411*

Longitude *-102.100813*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *2.48*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *2.48*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *294.6*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *16*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *1.593*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **South Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Palser East*

Geographic Coordinates of Measurement Device

Latitude *41.029411*

Longitude *-102.100813*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

SPNRD #8

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #8*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.019682* **Longitude** *-102.105037*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional): **End Date of Constraints (Optional):**

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.21*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.21*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *24.6*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *10*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **South Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Palser Bins*

Geographic Coordinates of Measurement Device

Latitude *41.019682* **Longitude** *-102.105037*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

SPNRD #9

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #9*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.025808*

Longitude *-102.095092*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.63*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.63*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *74*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *6*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *2.53*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **South Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Hendrickson North*

Geographic Coordinates of Measurement Device

Latitude *41.025808*

Longitude *-102.095092*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

SPNRD #10

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #10*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.025613*

Longitude *-102.096261*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.42*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.42*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *49*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *11*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.401*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **South Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Hendrickson South*

Geographic Coordinates of Measurement Device

Latitude *41.025613*

Longitude *-102.096261*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

SPNRD #11

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #11*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.027061*

Longitude *-102.079684*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.1*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.1*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *12*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *10*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.316*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **South Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Bauman*

Geographic Coordinates of Measurement Device

Latitude *41.027061*

Longitude *-102.079684*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

SPNRD #12

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #12*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.032621*

Longitude *-102.06131*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.15*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.15*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *17.4*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *14*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.428*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **South Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Skogland North*

Geographic Coordinates of Measurement Device

Latitude *41.032621*

Longitude *-102.06131*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

SPNRD #13

Location & Capacity

Name of Facility (If Only One Facility, This Is the Canal Name) *SPNRD #13*

Type of Facility *Recharge Cell*

Delivery Point Coordinates

Latitude *41.02826*

Longitude *-102.055011*

Operational Constraints: Enter Dates or Describe in the Narrative below When Can This Facility Can Be Operated?

Begin Date of Constraints (Optional):

End Date of Constraints (Optional):

Narrative of Constraints: Describe Details (Example: Weather Is Too Cold, so Cannot Operate the Facility) *pit cannot be operated when weather is too cold*

Diversion Rate from Stream (CFS)
Amount needed to be diverted in order to deliver the amount specified in the next question below. The total of the diversion values entered for all project facilities should add up to the amount to be appropriated in the application section. *0.12*

Delivery Rate (CFS)
Amount to Be delivered into the project facility from the stream diversion. If your project consists of one canal, then the value for this question should be the same as the value for the previous question. For projects where a canal delivers water to a recharge site: (the stream diversion rate) minus (the project facility delivery rate) = canal loss. *0.12*

Anticipated Maximum Annual Diversion (AF)
The upper limit of water diverted from the stream for this project facility. *13.8*

Maximum Operational Head (FT)
For reservoirs and wetlands, how deep will the water get? For canal sections, what is the maximum height of water (head) in the canal while diversions under this application are occurring? *12*

Maximum Water Surface Area (Acres)
For reservoirs and wetlands, what will be the maximum water surface area corresponding to the maximum head. For canals this would be the average canal width multiplied by the canal section length where recharge will occur. *0.682*

Are Engineering Drawings Available? *Yes*

Partners & Sponsors

- **South Platte Natural Resources District** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Skogland South*

Geographic Coordinates of Measurement Device

Latitude *41.02826*

Longitude *-102.055011*

Recorder Type *Staff Gage*

Recording Increments *Daily*

Live Data Feed available to NeDNR? *No*

Partners & Sponsors

Sponsor 1

Name of Entity Paying for Recharge at this Facility *Twin Platte Natural Resources District*

Per Acre-foot Cost Basis for Recharge at This Facility *Recharged*

Max Volume per Annum *21000*

Upload Sponsor Documents
5 year MOA Westerm (2018-2022) Excess Flow Contract #1010 - Signed.pdf [https://dssdnr.nebraska.gov/filedownload/26]

Sponsor 2

Name of Entity Paying for Recharge at this Facility *South Platte Natural Resources District*

Per Acre-foot Cost Basis for Recharge at This Facility *Recharged*

Max Volume per Annum *8500*

Upload Sponsor Documents
5 year MOA Westerm (2018-2022) Excess Flow Contract #1010 - Signed.pdf [https://dssdnr.nebraska.gov/filedownload/27]

NEBRASKA
DEPT. OF NATURAL RESOURCES

SPONSOR PORTAL Home Permits ANN.DIMMITT

DSS Id: 13
Appropriator: Western Irrigation District
Address: 1351 Road West 40 Brule, NE 69127

Water Rights Id: Pending
Point of Diversion: Western Diversion Dam
Phone Number: (308) 889-3518

Permit Type: Temporary
Annual Operating Plan Year: 2022
E-mail: dennismsfltd@atcjet.net

Variance Petition

Open

Submitted
Status

Filing Accepted
Petition Filing Fee Received & NeDNR Filing Review

Variance Petition Approved
Variance Petition Approval

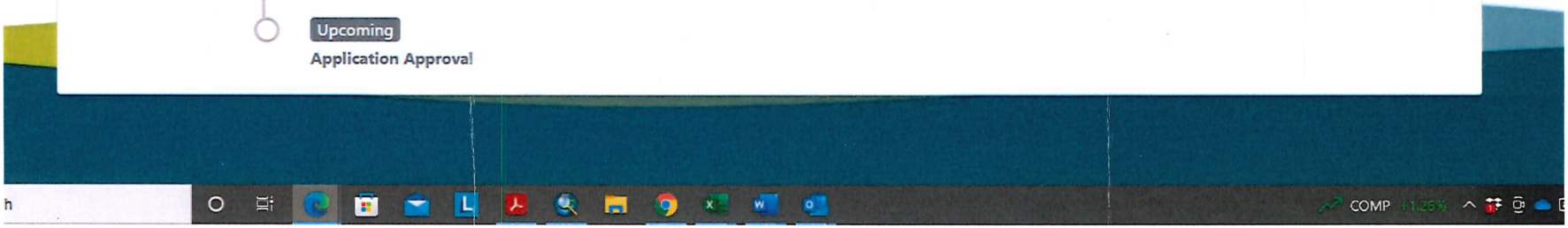
Application / Annual Operating Plan

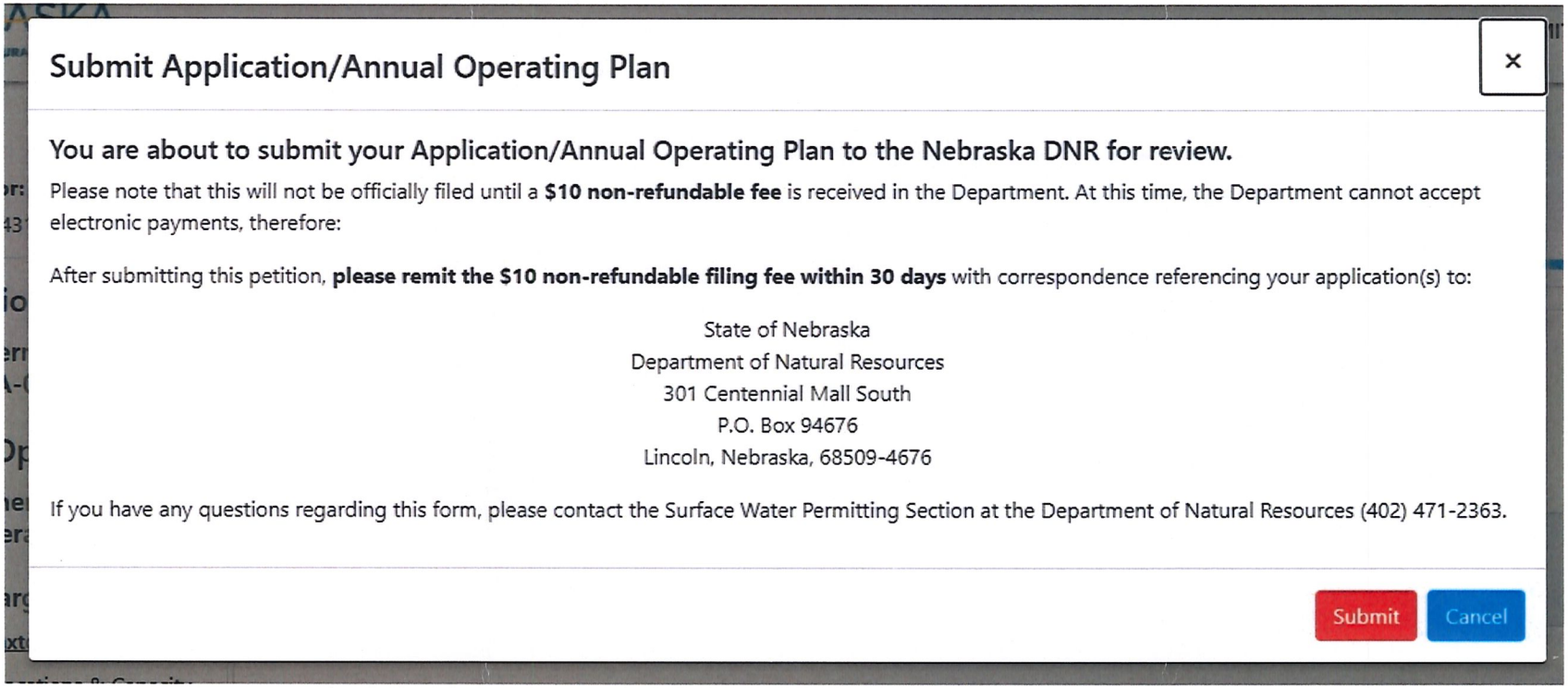
Open

Submitted
Status

In Progress
Application Filing Fee Received & NeDNR Filing Review

Upcoming
Application Approval

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You are about to submit your Application/Annual Operating Plan to the Nebraska DNR for review.
Please note that this will not be officially filed until a $10 non-refundable fee is received in the Department. At this time, the Department cannot accept electronic payments, therefore:
After submitting this petition, please remit the $10 non-refundable filing fee within 30 days with correspondence referencing your application(s) to:
State of Nebraska
Department of Natural Resources
301 Centennial Mall South
P.O. Box 94676
Lincoln, Nebraska, 68509-4676
If you have any questions regarding this form, please contact the Surface Water Permitting Section at the Department of Natural Resources (402) 471-2363.
Submit
Cancel

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NATURAL RESOURCES DISTRICT
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111 South Dewey Street, 2nd Floor
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North Platte, Nebraska 69103-1347

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