

Nebraska Excess Flow Annual Operating Plan

DSS Id: 23

Appropriator: Nebraska Public Power District

Address: PO Box 499 Columbus, NE 68602

Water Rights Id: 14376

Point of Diversion: Gothenburg Diversion Dam

Phone Number: (402) 362-7360

Permit Type: Temporary

Annual Operating Plan Year: 2023

E-mail: jtshafe@nppd.com



Submitted

Status



Filing Accepted

Application Filing Fee Received & NeDNR Filing Review



In Progress

Application Approval

Permit Application (*Alternate Form APA-001*)

What Is the Recharge Application Type? *Natural Flow*

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

Diversion Type (From Point of Diversion) *Headgate*

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

Maximum Capacity of Canal or Delivery Works (CFS) (From Point of Diversion) *400*

Quantity Desired for Recharge Appropriation (CFS) *100*

What is the Minimum Operational Rate of the Canal (CFS) *5*

What is the Earliest Diversion Date? *03/01/2023*

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? *No*

Annual Operating Plan

General System Operations (AOP)

Yes

No

Do You Use This System to Irrigate?

Diversion Begin Date *04/17/2023*

Diversion End Date *09/15/2023*

Delivery to Irrigators Begin Date *07/01/2023*

Delivery to Irrigators End Date *09/15/2023*

Irrigation Narrative (optional) *In general, NPPD begins priming operations the third week of April and ends operations near the middle of September. Our rotational schedules for our customers call for irrigation deliveries to begin July 1st.*

Irrigation Use Uploads (Optional)

No files uploaded.

Do You Use This System to Generate Hydropower?

Do You Use This System for Storage?

Begin Date 04/26/2023

End Date 10/31/2023

Storage Narrative (optional) Central Platte NRD contracts with NPPD to deliver water to B-1 Reservoir. Deliveries may begin once the canal is fully primed and end once the contracted volume has been delivered.

Storage Use Uploads (Optional)

No files uploaded.

Narrative for All Non-excess Flow Activities That Would Affect the Ability to Divert Excess Flows (Optional) Certain laterals will be available to recharge excess flow concurrent with deliveries to B-1 Reservoir storage.

Partners & Sponsors

Sponsor 1

Name of Entity Paying for Recharge at this Facility PRRIP

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

Max Volume per Annum 99999

Upload Sponsor Documents

 [Wtr Srvce Agree Rchrg Exss Flws.pdf \[https://dssdnr.nebraska.gov/filedownload/48\]](https://dssdnr.nebraska.gov/filedownload/48)

Recharge Facilities (AOP)

Gothenburg Canal

Location & Capacity

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

Type of Facility Canal

Delivery Point Coordinates

Latitude 40.97897

Longitude -100.2991

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) Cannot operate canal for recharge if: - Operating the canal for irrigation - Operating Canal to Deliver to B-1 Reservoir (certain laterals will be available). - Maintenance is occurring - Operations may cause the canal prism to freeze

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. 100

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. 100

Anticipated Maximum Annual Diversion (AF)

The upper limit of water diverted from the stream for this project facility. 10000

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. 120

Are Engineering Drawings Available? No

Partners & Sponsors

- **PRRIP** *(contract uploaded)*

Instrumentation

Instrument 1 - Inflow

Name of Inflow Measurement Site *Gothenburg Canal Diversion Measurement Flume - DNR Operated*

Geographic Coordinates of Measurement Device

Latitude *40.979*

Longitude *-100.3*

Recorder Type *Transducer*

Recording Increments *15 Minute*

Live Data Feed available to NeDNR? Yes

Instrument 2 - Outflow

Name of Outflow Measurement Site *Main Canal Return*

Geographic Coordinates of Measurement Device

Latitude *40.754*

Longitude *-99.436*

Recorder Type *Transducer*

Recording Increments *15 Minute*


Partners & Sponsors

Sponsor 1

Name of Entity Paying for Recharge at this Facility *PRRIP*

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

Max Volume per Annum *99999*

Upload Sponsor Documents
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