

IOWA DEPARTMENT OF NATURAL RESOURCES

WATER SUPPLY OPERATION PERMIT

PARK VIEW WATER & SANITARY DISTRICT

Public Water Supply ID: 8200855

PARK VIEW WATER & SANITARY DISTRICT
ATTN DAVID KING CHAIRMAN
12 A GROVE RD
ELDRIDGE IA 52748

Effective Date: December 19, 2017

Expiration Date: November 30, 2020

The permittee is authorized to operate the public water system identified as PARK VIEW WATER & SANITARY DISTRICT, subject to the applicable sections of Iowa Code including Chapter 455B and part 567 of the Iowa Administrative Code (IAC). This system is further subject to the monitoring requirements and general conditions of this permit and appendices when attached.

Appeal: Conditions of this permit may be appealed as provided in 561 IAC chapter 7, adopted by reference by 567 IAC chapter 7. The notice of appeal is required to be in writing and must be postmarked within 30 days of receipt of this permit. The written notice of appeal is required to be mailed to the Director with a copy to the Bureau Chief, Legal Services Bureau, Department of Natural Resources, 502 East 9th Street, Des Moines, Iowa 50319-0034.

Renewal: The permittee must file for renewal of this permit by October 01, 2020. The Iowa Department of Natural Resources (IDNR) will issue an application for renewal prior to this date. It is the permittee's responsibility to ensure that the application is completed and returned to the IDNR. Failure to make proper application or maintain compliance with the requirements of this operation permit may result in legal action pursuant to Iowa Code sections 455B.175 and 455B.191, and 567 IAC Chapter 10 (455B), including the possible assessment of monetary penalties.

FOR THE DIRECTOR,

By: _____ Date: December 19, 2017

cc: Field Office 6

File: PWSID:8200855, PARK VIEW WATER & SANITARY DISTRICT
PARK VIEW WATER & SANITARY DISTRICT
ATTN BRENT EARLEY MANAGER
12 A GROVE RD
ELDRIDGE IA 52748

WATER SUPPLY OPERATION PERMIT**PARK VIEW WATER & SANITARY DISTRICT**

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Park View Water & Sanitary District is classified as a community public water supply with a groundwater source. The supply must have a certified operator in direct responsible charge of its treatment and distribution systems holding the appropriate classification(s). This supply is classified as a Grade 2 water treatment system and Grade 2 water distribution system. The current operating period is defined as January 1 to December 31. In case your operating period is different than these dates, you must notify the IDNR immediately.

The water supply must sample at the locations and frequencies specified in this permit during periods of normal operation and representative of all water sources and treatment.

Distribution System Monitoring Requirements

The following samples must be taken throughout the distribution system, according to written sampling plans, and analyzed by a laboratory certified by the IDNR.

Facility ID: **950**Distribution System Name : **DISTRIBUTION SYSTEM**

ANALYTE	MONITORING FREQUENCY	SAMPLE PERIOD
Coliform Bacteria	2 samples every month	
Asbestos	1 sample every 9 years	January 1 to March 31, 2018
Lead and Copper	10 samples every 3 years	June 1 to September 30, 2020
Nitrite (as N)	1 sample every year	July 1 to September 30

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Source Entry Point Monitoring Requirements

The following samples must be taken at the source entry point and analyzed by a laboratory certified by the IDNR.

Facility ID: **01** Source Entry Point Name: **S/EP FRM WELL #1 (1968)**

ANALYTE	MONITORING FREQUENCY	SAMPLE PERIOD
Combined Radium	1 sample every 9 years	July 1 to September 30, 2021
Gross Alpha	1 sample every 9 years	July 1 to September 30, 2021
Inorganic (IOC) Chemicals	1 sample every 9 years	July 1 to September 30, 2022
Nitrate	1 sample every year	July 1 to September 30
* Nitrate must be collected during the specified sample period		
Nitrite	1 sample every year	July 1 to September 30
* Nitrite must be collected during the specified sample period		
Synthetic (SOC) Chemicals	1 sample every 6 years	July 1 to September 30, 2018
Volatile (VOC) Chemicals	1 sample every 6 years	July 1 to September 30, 2018
Arsenic	1 sample every 3 years	July 1 to September 30, 2019
Nitrogen-Ammonia (as N)	1 sample every year	July 1 to September 30
* Nitrogen-Ammonia (as N) must be collected during the specified sample period		
Sodium	1 sample every 3 years	July 1 to September 30, 2019

Note: Samples may be collected before the sample period specified, unless denoted with an asterisk (*) above, for monitoring frequencies of a year or greater. However, the interval between samples must not exceed the frequency. If a yearly 3rd quarter sample is collected early, for example in the 2nd quarter, the next yearly sample must be collected before the end of the 2nd quarter of the next year.

Facility ID: **04** Source Entry Point Name: **S/EP FRM WELL #4**

ANALYTE	MONITORING FREQUENCY	SAMPLE PERIOD
Combined Radium	1 sample every 9 years	July 1 to September 30, 2021
Gross Alpha	1 sample every 9 years	July 1 to September 30, 2021
Inorganic (IOC) Chemicals	1 sample every 9 years	January 1 to March 31, 2021
Nitrate	1 sample every year	July 1 to September 30
* Nitrate must be collected during the specified sample period		
Nitrite	1 sample every year	July 1 to September 30
* Nitrite must be collected during the specified sample period		

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Synthetic (SOC) Chemicals	1 sample every 6 years	April 1 to June 30, 2021
Volatile (VOC) Chemicals	1 sample every 6 years	April 1 to June 30, 2021
Arsenic	1 sample every 3 years	January 1 to March 31, 2018
Nitrogen-Ammonia (as N)	1 sample every year	July 1 to September 30
* Nitrogen-Ammonia (as N) must be collected during the specified sample period		
Sodium	1 sample every 3 years	January 1 to March 31, 2018

Note: Samples may be collected before the sample period specified, unless denoted with an asterisk (*) above, for monitoring frequencies of a year or greater. However, the interval between samples must not exceed the frequency. If a yearly 3rd quarter sample is collected early, for example in the 2nd quarter, the next yearly sample must be collected before the end of the 2nd quarter of the next year.

Stage 2 Disinfectants and Disinfection Byproducts Rule (DBPR)

Stage 2 Disinfectants and Disinfection Byproducts Rule (DBPR) monitoring requirements are based on your source water type and system population. Compliance with this rule is based on each individual distribution system sampling location. If an individual location is sampled quarterly, then compliance is based on the average of the analytical results for the previous four calendar quarters.

A total of 1 sample(s) must be collected per monitoring period, according to the approved sampling plan. Each sample from each location must be analyzed for both Total Trihalomethanes (TTHM) and Haloacetic Acids (HAA5). Samples must be collected at the following points and frequencies:

<u>Sample location</u>	<u>Facility ID</u>	<u>Sample Point ID</u>	<u>Monitoring Frequency</u>
27026 GLYNNS CREEK CT (HTL)	950	DB01	every year in August

Monthly Operation Report (MOR) Self-Monitoring Requirements

Monthly records of operation must be signed by the certified operator in direct responsible charge or their designee, maintained at the system for a period of five years, and available for IDNR review. Analysis of analytical parameters by a laboratory certified by IDNR is not required; however, a reliable field test kit or laboratory method must be used. Monthly Operation Report Forms may be obtained by contacting Field Office 6 at 319-653-2135. When IDNR notification is required, use this same field office number. During evenings, weekends, and holidays, notify the IDNR through the 24-Hr Emergency Response Unit at 515-725-8694.

When indicated in the section(s) below, the permittee must report the signed results of the self-monitoring in an approved format to Field Office 6 in Washington within 10 days after the end of each month.

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Routine Monitoring

Any parameter with an "X" in the report column below, must be submitted to the IDNR field office monthly as prescribed above. All parameters, whether reported to the field office or not, must be maintained at the system.

PARAMETER	FREQUENCY	LOCATION	REPORT	COMMENTS/RANGES
Phosphate, Quantity Used	1/Week	Day Tank / Scale	X	15% orthophosphate/85% polyphosphate product at both Well #1 and Well #4.
Phosphate, as PO4	2/Week	Source Entry Point	X	The phosphate is a 15% orthophosphate/85% polyphosphate product at both Well #1 and Well #4.
Pumpage or Flow	1/Day	Bypass		
Pumpage or Flow	1/Day	Raw Water		
Pumpage or Flow	1/Day	Source Entry Point		
Static Water and Pumping Levels	1/Month	Each Active Well		

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Mandatory Treatment Objectives and Operational Restrictions

You are required to adhere to the following treatment or restriction provisions. All parameters listed below must be monitored and reported to the IDNR Field Office. The permittee must report the signed results of the self-monitoring in an approved format to Field Office 6 in Washington within 10 days after the end of each month. You are required to achieve operational ranges when specified. You must notify the IDNR field office before any planned deviations and within 24 hours of any emergency deviations. Such circumstances are also to be reflected in the monthly operational reports.

Chlorination Requirements (Field Office Report)

You are required to provide chlorination and ensure that the chlorine concentration or residual in the finished drinking water is continuously maintained above at least 0.3 mg/L free chlorine or 1.5 mg/L total available chlorine throughout the distribution system, except in low use areas.

PARAMETER	FREQUENCY	LOCATION	COMMENTS/RANGES
Disinfectant Residual	1/Day	Distribution System	Maintain at or above 1.5 mg/L Total Chlorine
Disinfectant Residual	1/Day	Source Entry Point	Maintain at or above 1.5 mg/L Total Chlorine
Disinfectant, Quantity Used	1/Day	Day Tank / Scale	

Disinfection By-Product Requirements (DBPR)

Community and nontransient noncommunity public water supplies that add a chemical disinfectant or which provide water that contains a chemical disinfectant must monitor for the following to determine compliance with disinfection byproducts requirements. Total chlorine residuals must be used in the Maximum Residual Disinfectant Level (MRDL) calculations.

PARAMETER	FREQUENCY	LOCATION	COMMENTS/RANGES
Calculated MRDL (Monthly Average)	1/Month	Distribution System	Calculated each calendar month from the total chlorine residuals measured with the routine and repeat coliform bacteria samples.
Calculated MRDL (Running Annual Average)	1/Quarter	Distribution System	Calculated each calendar quarter from the previous 12 monthly MRDL total chlorine residual averages.
Disinfectant Residual	At Sampling	Distribution System	The system must measure and record chlorine residuals on the sample data sheet when sampling in the distribution system for routine and repeat coliform bacteria samples.

Arsenic Treatment (Iron Removal)

You are required to provide Arsenic Treatment (Iron Removal) to ensure that the arsenic concentration in the finished drinking water is continuously maintained below the maximum contaminant level of 0.010 mg/L. The permittee must monitor the arsenic concentration using the designated surrogate parameter (iron). The iron testing must be done with an instrument with a digital readout. The instrument must be capable of reading to ± 0.1 mg/L iron with a detection limit of 0.10 mg/L.

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PARAMETER	FREQUENCY	LOCATION	COMMENTS/RANGES
Iron	1/Week	Raw Water	
Iron	1/Day	Source Entry Point	If prechlorination is used to aid arsenic removal, the system must note on the MOR if pre-chlorination fails and when it is restored.

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GENERAL PERMIT CONDITIONS**1. ADMINISTRATIVE RULES**

Rules of the IDNR which govern your facility operation, in connection with this permit, are published in 567 Iowa Administrative Code (IAC) Chapters 40, 41, 42, 43, and 81.

2. NOTICE OF CHANGED CONDITIONS

You are required to report any changes in existing conditions or information on which this permit is based. If any modification of, addition to, or construction of this water system is made, you must first obtain a written construction permit from the IDNR, in accordance with 567 Chapters 40, 41, and 43.

3. PERMIT MODIFICATION, SUSPENSION, OR REVOCATION

- a. This permit may be modified at any time as a result of changes to the Iowa Administrative Code.
- b. This permit may be modified due to changes in the conditions or information on which this permit is issued.
- c. This permit may be modified to include a compliance schedule.
- d. This permit may be modified, suspended, or revoked for causes specified in 567 IAC 43.2(8).

4. INSPECTION OF PREMISES, RECORDS, EQUIPMENT, AND METHODS

You are required to permit authorized IDNR personnel to survey and inspect any construction, operation, and records of your water supply system in accordance with Iowa Code, section 455B. 174, and 567 IAC 42.4(3)"a" and 42.5(1)"g" and 567 Chapter 44.

5. OPERATION AND MAINTENANCE

All facilities and control systems must be operated as efficiently as possible and maintained in good working order in accordance with 567 IAC Chapter 43. A sufficient number of staff, adequately trained and knowledgeable in the operation of your facility, must be retained to achieve compliance with the terms of this permit.

6. REPORTING, PUBLIC NOTIFICATION, AND RECORDKEEPING REQUIREMENTS

- a. You are required to report all test, measurement, or analytical results to the IDNR in accordance with 567 IAC 42.4(1)"a". This must include the reporting of all positive detects within the same analytical series.
- b. You are required to report to the IDNR within 48 hours any violation of the drinking water regulations or monitoring requirements in accordance with 567 IAC 42.4(1)"b".
- c. You are required to notify the public of any violation of the drinking water regulations or monitoring requirements in accordance with 567 IAC 42.1(455B).
- d. Within 10 days of notifying the public, you are required to provide proof of such action to the IDNR in accordance with 567 IAC 42.4(1)"c".
- e. You are required to maintain records of analyses, of actions to correct violations of any of the drinking water regulations, of correspondence, and of permits for periods of 5 to 12 years depending on the nature of the records, in accordance with 567 IAC 42.5(1).

7. TRANSFER OF TITLE, CHANGE IN OPERATION

If title to your facility or any part of it is transferred, the new owner shall be subject to this permit. You are required to notify the new owner of the requirements of this permit in writing within 30 days to such transfer of title. The Director of the IDNR must be notified in writing within 30 days of such transfer or of any other change in conditions identified in the permit application (567 IAC 43.2(455B)).

8. SEVERABILITY

If any provision or application of any provision to any circumstances is found to be invalid by the IDNR or by a court of law, all other provisions and conditions shall remain effective.

9. APPLICATION OF OTHER AUTHORITY

This permit does not relieve you of the responsibilities to comply with all local, state, and federal laws, ordinances, regulations, or other legal requirements applying to the operation of your facility.

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APPENDIX 1**Preliminary Engineering Report**

As a result of failure to meet the minimum chlorine requirements, iron and manganese complaints in the distribution system, concerns of elevated arsenic and lead levels at customer taps, and in accordance with part 567 of the Iowa Administrative Code (IAC) Chapters 40-43, the permittee is required to comply with the following schedule:

The permittee is required to submit a preliminary engineering report (PER). The PER must be prepared by a registered engineer and be submitted to the Iowa Department of Natural Resources (IDNR) for review by **February 28, 2018**.

The report must evaluate the operating condition of Park View Water and Sanitary District (8200855) water supply, and provide options for bringing the system into compliance with all Safe Drinking Water Act standards .

The PER must:

- Evaluate the existing hydraulics in the distribution system in Park View Water and Sanitary District (8200855)
- Provide a detailed cost analysis for each option
- Provide a proposed time schedule for implementation of the various alternatives offered in the report:

The PER should provide options with recommendations to:

- o Address chlorine residuals,
- o Remove deposited iron, manganese, lead and arsenic already in the distribution system,
- o Alleviate ongoing deposition of iron and manganese
- o Address Lead and Copper concerns
- o Evaluate the effectiveness of the existing treatment.

Send the construction permit application to:

Iowa DNR
ATTN Water Supply Engineering
502 E 9th St
Des Moines, IA 50319-0034

After the PER has been reviewed by the IDNR, an operation permit with a compliance schedule for submittal of plans and specifications, and implementation of corrective actions, will be issued. The plans and specifications for any proposed water supply construction project must be prepared by a registered engineer and submitted to the IDNR for review and issuance of a construction permit prior to construction of such facilities. **A construction permit must be obtained prior to starting installation or beginning construction.**

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Other Requirements:

Nothing in this permit appendix shall relieve the PWS from complying with all applicable state requirements concerning PWS systems including monitoring, sampling, construction permits, operation and maintenance, and limitations not covered by this document

FACILITY ID SUMMARY

PARK VIEW WATER & SANITARY DISTRICT

PWSID 8200855

Facility ID	Facility Name	Status									
Facility Type : Distribution System		Type Code : DS									
950	DISTRIBUTION SYSTEM	Active									
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Stage 2 DBPR Sample ID</th> <th style="text-align: left;">Description</th> <th style="text-align: left;">Status</th> </tr> </thead> <tbody> <tr> <td>DB01</td> <td>27026 GLYNNS CREEK CT (HTL)</td> <td>Active</td> </tr> <tr> <td>DB02</td> <td>53 PARK VIEW DRIVE (HHL)</td> <td>Inactive</td> </tr> </tbody> </table>			Stage 2 DBPR Sample ID	Description	Status	DB01	27026 GLYNNS CREEK CT (HTL)	Active	DB02	53 PARK VIEW DRIVE (HHL)	Inactive
Stage 2 DBPR Sample ID	Description	Status									
DB01	27026 GLYNNS CREEK CT (HTL)	Active									
DB02	53 PARK VIEW DRIVE (HHL)	Inactive									
Facility Type : Source/Entry Point		Type Code : SS									
01	S/EP FRM WELL #1 (1968)	Active									
02	S/EP FRM WELL #2	Inactive									
03	S/EP FRM ORIG WELL #1; REHAB	Inactive									
04	S/EP FRM WELL #4	Active									
Facility Type : Well		Type Code : WL									
WL01	WELL # 1 (1968) Well Tag ID: 1060622	Active									
WL02	PLUG # 2 Well Tag ID:	Inactive									
WL03	PLUG # 3 Well Tag ID:	Inactive									
WL04	WELL # 4 (2000) Well Tag ID: 1060833	Active									
Facility Type : Treatment Plant		Type Code : TP									
TP01	PLANT #1	Active									
TP02	PLANT #2	Active									
Facility Type : Storage		Type Code : ST									
ST01	CLEARWELL STORAGE #1	Active									
ST02	CLEARWELL STORAGE #2	Active									
ST03	TOTAL ELEVATED STORAGE	Active									