



Water Management Plan

Action: Approved **Effective Date:** 7/15/2025

Operator: Marion Natural Energy, LLC

WMP ID: 3787

Plan Type: Well Pad

Facility Name: Upton Well Pad

County: Marion

Lat: 39.540378

Long: -80.206703



This Water Management Plan governs all water withdrawals associated with the identified well pad. This plan supersedes any previously approved water management plans issued for the included wells. This plan is not in effect until at least one well-work permit identified below has been issued, and remains valid until all listed permits are released or expire.

The following water consumption estimates (in gallons) have been reported for this plan.

Api ↑≡	Wellname
047-049-02582	Upton 5H
047-049-02584	Upton 9H
047-049-02591	Upton 5H-A
047-049-02592	Upton 13H
047-049-02593	Upton 17H

Construction:	12,600
Drilling Activities:	840,000
Hydraulic Fracture:	103,834,500
Post-Fracture:	336,000
Incidental Uses:	33,600
Reclamation Activities:	158,000

Total for Well Pad:	105,214,700
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Primary Sources

For each proposed primary water source (including source intakes for purchased water sources) identified in your water management plan, and summarized herein, DEP has made an evaluation concerning water availability over the specified date range. DEP's assessment is based on the following considerations:

- Statistical analysis of historical USGS stream gauge data (transferred to un-gauged locations as necessary);
- Identification of sensitive aquatic life (endangered species, mussels, etc.);
- Quantification of known existing demands on the water supply (Large Quantity Users);
- Minimum flows required by the Army Corps of Engineers; and
- Designated stream uses.

Based on these factors, DEP has provided, for each intake location (and origination point for purchased water), a reference gauge location and discharge flow reading which must be surpassed prior to withdrawals. Additionally, DEP has established a minimum passby flow at the withdrawal location which must also be surpassed prior to withdrawals. These thresholds are considered terms of the permit and enforceable as such.

For any source identified by DEP as having known mussel, trout, or endangered species populations, the operator should consult with the Department of Natural Resources and the United States Fish and Wildlife Service prior to initiating any withdrawals.

DEP is aware that some intake points will be used for multiple wells and well sites. In these cases, the thresholds set by the Water Management Plan are to be interpreted as total withdrawal limits for each location over the specified date range regardless of how many wells are supported by that intake.

For all purchased water intakes, determinations of water availability are made at the original source intake location. It is the responsibility of the Oil and Gas Operator, not the seller, to cease withdrawal of water from the seller when flows are less than the minimum gauge reading at the stream gauge referenced by the Water Management Plan in order to protect stream uses.

Note that the determinations made herein are based on the best available data, but it is impossible to predict water availability in the future. While the DEP has carefully established these minimum withdrawal thresholds, it remains the operator's responsibility to protect aquatic life at all times. Approval to withdrawal is contingent upon permission from the land owner. It is the responsibility of the operator to secure and maintain permission prior to any withdrawals.

The operator is reminded that 24-48 hours prior to withdrawing (or purchasing) water, DEP must be notified by email at DEP.water.use@wv.gov. Signage requirements must be satisfied within 24 hours of activating this Water Management Plan.

• Dunkard Creek @ Snider

Type:	Stream/River
County:	Monongalia
Owner:	Charles R. Snider, Jr.
Intake Latitude:	39.703311
Intake Longitude:	-80.163123
HUC-8 Code:	5020005
Drainage Area (sq miles):	121.19

Gauged Stream:	YES
Ref Gauge ID:	3072000
Ref Gauge Name:	DUNKARD CREEK AT SHANNOPIN, PA
Minimum Gauge Reading (cfs):	44.87
Minimum Passby (cfs):	10.58
Endangered Species:	YES

Regulated Stream:	NO
PWS Within 1 Mile:	NO

Mussel Stream:	YES
Maximum Pump Rate (gpm):	2500

Comments:

Qualifies under §35-8-9.1.a.1.B. Passby of 10.58 cfs @ Statler (0.54 ft on staff gauge @ Pentress Bridge) must be adhered to. If gauge is compromised, DEP must be notified immediately, and the ref. USGS gauging station targets must also be exceeded.

- Dunkard Creek @ Statler Withdrawal Site

Type:	Stream/River
County:	Monongalia
Owner:	Benjamin M. Statler
Intake Latitude:	39.711487
Intake Longitude:	-80.178871
HUC-8 Code:	5020005
Drainage Area (sq miles):	121.19
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Gauged Stream:	YES
Ref Gauge ID:	3072000
Ref Gauge Name:	DUNKARD CREEK AT SHANNOPIN, PA
Minimum Gauge Reading (cfs):	44.87
Minimum Passby (cfs):	10.58
Endangered Species:	YES
Mussel Stream:	YES
Maximum Pump Rate (gpm):	2500

Comments:

Qualifies under §35-8-9.1.a.1.B. Passby requirement of 10.58 cfs (0.34 ft on staff gauge) must be adhered to at all times. If staff gauge is compromised, DEP must be notified immediately, and the ref. USGS gauging station targets must also be exceeded.

- Monongahela River @ Jenkins

Type:	Stream/River
County:	Monongalia
Owner:	Lawrence Dale & Christine Jenkins
Intake Latitude:	39.572441
Intake Longitude:	-80.048329
HUC-8 Code:	5020003
Drainage Area (sq miles):	2530.67
Regulated Stream:	YES MGF @ Opekiska Dam
PWS Within 1 Mile:	YES Morgantown Utility Board

Gauged Stream:	YES
Ref Gauge ID:	3057000
Ref Gauge Name:	TYGART VALLEY RIVER AT COLFAX, WV
Minimum Gauge Reading (cfs):	304.34
Minimum Passby (cfs):	475.11
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	2500

Comments:

- Monongahela River @ Laurita

Type:	Stream/River
County:	Monongalia

Gauged Stream:	NO
Ref Gauge ID:	3057000

Owner:	Joseph A. & Lisa Laurita
Intake Latitude:	39.551524
Intake Longitude:	-80.061658
HUC-8 Code:	5020003
Drainage Area (sq miles):	2473.46
Regulated Stream:	YES MGF @ Opekiska Dam
PWS Within 1 Mile:	NO

Ref Gauge Name:	TYGART VALLEY RIVER AT COLFAX, WV
Minimum Gauge Reading (cfs):	525
Minimum Passby (cfs):	390
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	5040

Comments:

- Monongahela River @ Morgantown Industrial Park

Type:	Stream/River
County:	Monongalia
Owner:	Enrout Properties LLC
Intake Latitude:	39.604042
Intake Longitude:	-79.969827
HUC-8 Code:	5020003
Drainage Area (sq miles):	2571.2
Regulated Stream:	YES MGF @ Opekiska Dam
PWS Within 1 Mile:	YES Morgantown Utility Board

Gauged Stream:	NO
Ref Gauge ID:	3057000
Ref Gauge Name:	TYGART VALLEY RIVER AT COLFAX, WV
Minimum Gauge Reading (cfs):	304.34
Minimum Passby (cfs):	475.11
Endangered Species:	NO
Mussel Stream:	YES
Maximum Pump Rate (gpm):	2500

Comments:

- Paw Paw Creek @ Cook

Type:	Stream/River
County:	Marion
Owner:	Adam L. Cook @ Georgia Cook
Intake Latitude:	39.587158
Intake Longitude:	-80.238
HUC-8 Code:	5020003
Drainage Area (sq miles):	13.25
Regulated Stream:	NO
PWS Within 1 Mile:	NO

Gauged Stream:	NO
Ref Gauge ID:	3061500
Ref Gauge Name:	BUFFALO CREEK AT BARRACKVILLE, WV
Minimum Gauge Reading (cfs):	26.71
Minimum Passby (cfs):	2.94
Endangered Species:	NO
Mussel Stream:	NO
Maximum Pump Rate (gpm):	2500

Comments:

Secondary Sources

For each proposed secondary water source identified in your water management plan (i.e. groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no

availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow and quality-tested by the operator at the request of the drinking well owner prior to the operation of the water supply well.
- For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.
- The use of recycled frac water is always encouraged.

- Recycled Frac Water

Type:	Recycled Frac Water
County:	
Owner:	
Source Latitude:	
Source Longitude:	
Reference WMP:	

Comments:

Treated and recycled flowback/produced water sources may include, but are not limited to this well pad.

- Southwestern Pennsylvania Water Authority

Type:	Purchased Water
County:	Greene, PA
Owner:	Southwestern Pennsylvania Water Authority
Source Latitude:	39.768776
Source Longitude:	-80.225171
Reference WMP:	

Comments:

Please ensure that purchases from this facility are in compliance with all applicable rules and regulations established by PADEP. Multiple taps.

West Virginia Department of Environmental Protection

601 57th Street SE

Charleston, WV

Pollution and Emergency Spills 1-800-642-3074

www.dep.wv.gov

