

Exhibit 0

Water Requirements

**Wagon Trail Solar Project
December 2023**

Prepared for



Prepared by



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Acronyms and Abbreviations

Applicant	Wagon Trail Energy Center, LLC c/o NextEra Energy Resources, LLC
Facility	Wagon Trail Solar Project
gal	gallon
Mgal	million gallons
NPDES	National Pollutant Discharge Elimination System
O&M	operations and maintenance
OAR	Oregon Administrative Rule
ODEQ	Oregon Department of Environmental Quality
ORS	Oregon Revised Statutes

1.0 Introduction

Wagon Trail Energy Center, LLC c/o NextEra Energy Resources, LLC (Applicant) proposes to construct and operate the Wagon Trail Solar Project (Facility), a solar energy generation facility and related or supporting facilities in Morrow County, Oregon. This Exhibit O was prepared to meet the submittal requirements in Oregon Administrative Rule (OAR) 345-021-0010(1)(o).

2.0 Water Use

OAR 345-021-0010(1)(o) Information about anticipated water use during construction and operation of the proposed facility. The applicant shall include:

(A) A description of the use of water during construction and operation of the proposed facility.

2.1 Construction

Construction water use is estimated at approximately 40.2 million gallons (Mgal) under annual average conditions, per phase of solar array construction. For the purposes of analysis, proposed Facility construction of any phase is assumed to take approximately 12 months from the time of permit approval to commercial operation. Water use will be for dust control throughout the construction site, road compaction, mixed into concrete for foundations, and provided for on-site worker drinking and sanitation use (Table O-1). The primary use of water during construction will be for dust control on access roads.¹ The total water use under average conditions assumes that all Facility roads will be watered multiple times each day, even in portions of the proposed Facility where no construction is underway. Water for dust control and road compaction will be applied via tanker truck in a manner that avoids erosion and sediment discharge and is consistent with the best management practices presented in the 1200-C Construction Stormwater National Pollutant Discharge Elimination System Permit (NPDES; see Exhibit I).

For the construction of foundations, the Applicant will buy concrete directly from licensed suppliers in the area. Thus, the water required for concrete mixing will be provided by the concrete suppliers under their existing permits. Note that water for concrete production is included in the analysis to represent the worst case anticipated water needs. Fire prevention represents a minor water use; this will involve stationing a water truck at the job site to keep the ground and vegetation moist during extreme fire risk conditions.

¹ Note that other dust suppressants besides water may be utilized as necessary during extreme drought conditions (synthetic polymer emulsions, chemical suppressants, organic glues, and wood fiber materials) depending on the site and condition (to be applied by trained and certified vendors familiar with applicable environmental regulations including the federal Endangered Species Act, the Clean Water Act, the Salmon Recovery Act, and state and local regulations).

Table O-1. Water Use During Construction Per Phase

Construction Use	Quantity
Site dust control	31.2 Mgal (average annual conditions)
	62.4 gal (worst-case conditions)
Road compaction	6.2 Mgal
Concrete mixing	-
<ul style="list-style-type: none"> Tracker post foundations 	2.2 Mgal
<ul style="list-style-type: none"> Inverter/transformer pad foundations 	78,000 gal
<ul style="list-style-type: none"> Battery pad foundations 	179,820 gal
<ul style="list-style-type: none"> Collector substation foundations 	157,650 gal
<ul style="list-style-type: none"> O&M building foundation¹ 	210 gal
Total water for concrete mixing	2.6 Mgal
Drinking water/sanitation	140,400 gal
Total	40.2 Mgal (average) to 71.4 Mgal (worst-case)
<p>1. The proposed Facility will either utilize the existing operations and maintenance (O&M) building for the Wheatridge Renewable Energy Facilities I, II, and III or a new O&M building. Material amounts provided assume a new O&M building will be constructed for worst-case scenario estimates.</p>	

Note that the actual Facility construction will be phased and will be a focused effort on specific portions of the proposed Facility in order to maximize efficiency and limit water use.

Water for road construction assumes 25 gallons (gal) per lineal foot of road. Exhibit B identifies 248,160 feet/47 miles of roads. Water use for dust control for each phase assumes 100,000 gal per day, 6 days per week, over a 12-month construction period. Actual dust control water use will vary, depending on the timing of construction and the season, precipitation, soil conditions, temperature, and frequency of repeat disturbance. None of these factors can be controlled or easily estimated by the contractor. Approximately 3.2 Mgal of water per month will be required for Facility construction dust suppression and road and earthwork compaction.

Concrete mixing for foundations uses a standard assumption of 30 gal of water per cubic yard of concrete. Exhibit G identifies 85,682 cubic yards of concrete needed for foundations and the catchment. Of the total water for concrete mixing, most of it will be for foundations for the steel posts installed to support the solar array. To conservatively estimate the amount of water for solar array foundations, it was assumed that 9.9 gal of water will be required to mix concrete per foundation post (213,585 posts total). This assumption likely overestimates water use because poles typically are driven or screwed in place without concrete, and concrete is only used where soil conditions require it (for example, very rocky conditions). For drinking and sanitation requirements, it is assumed that approximately 3 gal per day (6-day work week) per person will be required for construction workers (150 average on-site workers).

While water quantities have been conservatively estimated for purposes of analysis, due to the cost and time involved in transporting water by tank truck to the proposed Facility, water used for dust

suppression and road compaction will be applied at the minimum rate necessary to perform its function. Water used for concrete mixing will also be applied at the minimum mixing rate required to make concrete.

Worst-case water use amounts will result from construction in particularly dry weather conditions with high temperatures, which is estimated to require approximately 50 percent greater water use for dust control than in average conditions. Based on this assumption, a worst-case water estimate could increase the total construction water use total for each phase to approximately 71.4 (Mgal) over a 12-month period. Therefore, the worst-case average monthly water demand for all construction and dust control will become approximately 6 Mgal, and the average daily water demand (6-day work week) will increase to approximately 228,850 gal.

2.2 Operation

Once constructed, the proposed Facility will have a limited need for water. Water will be used for drinking water at the O&M building (if a new O&M building is constructed) and for solar panel washing. The battery energy storage system will not require water usage during operations. Total water consumption expected at the O&M building during operations is assumed to be approximately 30 gal per day, for a total of up to 7,500 gal per year.

The solar panels may require periodic washing to minimize the effects of dust and dirt on energy production (referred to as soiling) although this is not anticipated and will be dependent on weather conditions; during drought conditions when there is more dust, the panels may require washing. For the purpose of this analysis, it is conservatively assumed that the array panels will be washed twice a year. At an estimated 0.5 gal per module for a total maximum of 965,007 modules, each wash will require 482,504 gal, for a total of up to 965,008 gal per year. The use of 965,008 gal per year for this purpose will result in an average daily consumption during operations of approximately 2,664 gal. Advancements in robotic panel cleaning have the potential to dramatically reduce the water needs for solar panel washing. Therefore, the Applicant's estimate of 482,504 gal per wash likely overestimates the amount of water that will actually be used. Water will be applied via tanker truck for cleaning and will not have added solvents or chemicals. Water usage frequency and consumption rates are based on standard commercial facility estimates.

3.0 Sources of Water

OR 345-021-0010(1)(o)(B) A description of each source of water and the applicant's estimate of the amount of water the facility will need during construction and during operation from each source under annual average and worst-case conditions.

3.1 Construction

The Applicant's third-party construction contractor will obtain construction water from Boardman Public Works, Hermiston Water Department, Stanfield Public Works, the Port of Morrow (under an

existing municipal water right), or another municipal source and truck the water to the site. A total conservative water use of approximately 40.2 Mgal (average conditions) to 71.4 Mgal (worst-case conditions) will be required for dust control, road compaction, concrete mixing, and drinking water/sanitation uses as discussed above. However, the amount of water applied daily is highly dependent on weather and will vary between construction periods and duration. Boardman Public Works, Hermiston Water Department, Stanfield Public Works, or the Port of Morrow have indicated they can provide sufficient water for Facility construction (Table O-2; Attachments O-1 through O-4).

The quantities available shown in Table O-2 are based on written correspondence from the water suppliers contacted and demonstrate that an adequate supply of water for Facility construction is available. The non-binding commitments indicate a supply of up to 10.8 Mgal per month. As stated previously, the actual Facility construction will be a focused effort on specific portions of the proposed Facility in order to maximize efficiency and limit water use.

Table O-2. Potential Water Suppliers

Supplier Name	Contact	Quantity Available (gallons)
Boardman Public Works	Kevin Kennedy	150,000–300,000 gallons per month
Hermiston Water Department	Roy Bicknell	2.2 Mgal per month
Stanfield Public Works	Scott Morris	1.8 Mgal per month
Port of Morrow	Mark Patton	6.5 Mgal per month
TOTAL		10.65–10.8 Mgal per month

3.2 Operation

During operation, a new exempt well will be located near the O&M building (if a new O&M building is constructed). Alternatively, the existing well at the O&M building for the Wheatridge Renewable Energy Facilities I, II, and III may be used. Either well will provide no more than 5,000 gal per day for use at the O&M buildings.

Water for solar panel washing is anticipated to be obtained from the same sources as during construction. Correspondence with Boardman Public Works, Hermiston Water Department, Stanfield Public Works, and the Port of Morrow confirmed a supply of up to 10.8 Mgal per month will be available, up to 129.6 Mgal annually, for periodic solar array washing (Attachments O-1 through O-4).

4.0 Wastewater and Water Loss

ORAR 345-021-0010(1)(o)(C) A description of each avenue of water loss or output from the facility site for the uses described in (A), the applicant's estimate of the amount of water in each avenue under annual average and worst-case conditions and the final disposition of all wastewater.

4.1 Construction

Water use for concrete production and dust control will result in water loss primarily through evaporation from wetted road surfaces and from curing concrete. No water used on the site will be discharged into wetlands, streams, and other waterways. Due to the dry conditions at the proposed Facility and the relatively low rates of water use and application, it is expected that any excess water used during construction will be lost within or near the proposed Facility site boundary, primarily through evaporation and infiltration.

Construction-related stormwater runoff will be managed according to an NPDES 1200-C permit and the Applicant will follow Oregon Department of Environmental Quality (ODEQ) rules governing construction stormwater runoff. Most of the area within the site boundary is vegetated, which will serve as a buffer to promote infiltration and minimize erosion. Likewise, the Applicant will follow ODEQ rules regarding the disposal of sanitary wastewater and use of portable toilets.

4.2 Operations

Minimal wastewater or water loss will be generated during operations. Wastewater from domestic and incidental uses at the O&M building will be discharged to a county-approved septic system located near the O&M building. During periodic washing of solar panels (approximately twice per year), washwater will evaporate or infiltrate into the ground. Water from this activity will not be discharged into wetlands, streams, or waterways. As indicated above, battery storage will not generate wastewater during operations. Stormwater will also infiltrate into the ground.

5.0 No Groundwater/Surface Water Permit or Water Right Transfer

OAR 345-021-0010(1)(o)(E) If the proposed facility would not need a groundwater permit, a surface water permit or a water right transfer, an explanation of why no such permit or transfer is required for the construction and operation of the proposed facility.

The proposed Facility does not need any groundwater permits, water rights, or surface water permits. As discussed above, water for construction will either be obtained from Boardman Public Works, Hermiston Water Department, Stanfield Public Works, the Port of Morrow, or another municipal source under an existing municipal water right.

Operations water use will be minimal and most use will qualify as exempt under Oregon Revised Statute (ORS) 537.545(1)(f), which allows certain industrial or commercial uses of up to 5,000 gal per day. Exempt industrial water uses include drinking, flushing toilets, using sinks, and other general industrial uses. The Applicant expects to rely on an exempt well allowed under ORS 537.545 to provide water to the O&M building.

During operations, water will be used to wash the solar panels and maintain the overall efficiency of the panels. Washwater for periodic solar panel washing will be obtained from the same sources

as during construction. If water is obtained from Boardman Public Works, Hermiston Water Department, Stanfield Public Works, or the Port of Morrow, no permit or transfer is required because the City’s existing municipal water rights allow use for industrial purposes such as the proposed Facility (OAR 690-300-0010(29)). If water is obtained from either an existing or newly constructed well(s), the maximum daily withdrawal will be less than 5,000 gal per day, as an exempt use for industrial purposes. As necessary, the Applicant may purchase water from landowner(s) with an existing water right that meets the intended use pursuant to ORS 537.545.

6.0 Mitigation Measures

OAR 345-021-0010(1)(o)(G) A description of proposed actions to mitigate the adverse impacts of water use on affected resources.

No adverse impacts are expected to result from proposed Facility water use during construction or operation. Solar energy facilities have minimal water requirements. Because construction and operation of the Facility will not create any significant impacts on water resources, no mitigation measures are proposed.

7.0 Submittal Requirements and Approval Standards

7.1 Submittal Requirements

Table O-3. Submittal Requirements Matrix

Requirement	Location
OAR 345-021-0010(1)(o) Information about anticipated water use during construction and operation of the proposed facility. The applicant shall include:	-
(A) A description of the use of water during construction and operation of the proposed facility.	Section 2.0
(B) A description of each source of water and the applicant's estimate of the amount of water the facility will need during construction and during operation from each source under annual average and worst-case conditions.	Section 3.0
(C) A description of each avenue of water loss or output from the facility site for the uses described in (A), the applicant's estimate of the amount of water in each avenue under annual average and worst-case conditions and the final disposition of all wastewater.	Section 4.0
(D) For thermal power plants, a water balance diagram, including the source of cooling water and the estimated consumptive use of cooling water during operation, based on annual average conditions.	N/A
(E) If the proposed facility would not need a groundwater permit, a surface water permit or a water right transfer, an explanation of why no such permit or transfer is required for the construction and operation of the proposed facility.	Section 5.0

Requirement	Location
(F) If the proposed facility would need a groundwater permit, a surface water permit or a water right transfer, information to support a determination by the Council that the Water Resources Department should issue the permit or transfer of a water use, including information in the form required by the Water Resources Department under OAR chapter 690, divisions 310 and 380.	N/A
(G) A description of proposed actions to mitigate the adverse impacts of water use on affected resources.	Section 6.0

7.2 Approval Standards

OAR 345 Division 22 does not provide an approval standard specific to Exhibit O.

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**Attachment O-1: Record of
Correspondence with Boardman Public
Works Department**

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From: [Kevin Kennedy](#)
To: [Gulick, Kristen](#)
Subject: RE: Boardman Public Works Agreement with Wagon Trail Solar Project/Wheatridge Wind/Solar Project
Date: Friday, December 4, 2020 9:53:00 AM

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Kristen...

Yes, the letters dated August 1, 2014 and October 17, 2018 can still apply to your project. Any further questions please don't hesitate to contact me.

Thank you,

Kevin Kennedy
Public Works Director
City of Boardman
541-481-9252

From: Gulick, Kristen <Kristen.Gulick@tetrattech.com>
Sent: Thursday, December 3, 2020 11:49 AM
To: Kevin Kennedy <KennedyK@cityofboardman.com>
Subject: Boardman Public Works Agreement with Wagon Trail Solar Project/Wheatridge Wind/Solar Project

Hello,

I am contacting you on behalf of the proposed Wagon Trail Solar Project (Wagon Trail). Wagon Trail would be collocated and operated by the same owners (NextEra) as the Wheatridge Wind/Solar Project (Wheatridge). Wagon Trail would be an up to 500-megwatt solar energy generation facility with related or supporting facilities including a battery energy storage system in Morrow County, Oregon. More information on Wheatridge can be found here:

<https://www.oregon.gov/energy/facilities-safety/facilities/Pages/WREF-II.aspx>.

Correspondence was received from you in 2014 as well as 2018 confirming that the Boardman Public Works will be able to supply water (300,000 gallons/month during non-seasonal usage, 150,000 gallons during seasonal usage [June 1-September 30]) as needed for Wheatridge. Please see attached records of correspondence. Therefore, we are hoping you could provide an updated letter confirming that you can provide the same amount to contribute to the 12 million gallons required for Wagon Trail construction. This is our current, conservative, estimate of water use anticipated for facility construction over a 9 to 12-month period. Please advise if you can provide greater water quantities than previously stated.

Tetra Tech is under contract to NextEra through the Oregon Dept. of Energy's (ODOE) permitting

process. To this end, we will provide to ODOE evidence of consultation with local municipalities that we have been in contact regarding obtaining water for the construction of Wagon Trail. At this point in the process, NextEra is not required to have entered into a contract with the Boardman Public Works for water supply, we just need to demonstrate to ODOE that we have been in consultation with Boardman Public Works and that yes, you are licensed to supply water to NextEra, how much, your water right permit number(s; 40336 and 2624), and seasonal constraints. Any letter from you to me on this subject does not constitute a contract and you are under no obligation to supply water for the facility, we just need to demonstrate to ODOE that you have water to sell and that we could use as a water supplier if we, at a later date, come to an agreement to do so.

If you could please provide an updated letter addressing the Wagon Trail Solar Project as soon as possible, that would be greatly appreciated. It can be a statement on your letterhead with your signature if you like, or even a reply to this email.

Thank you!

Kristen Gulick | Environmental Planner
Kristen.Gulick@tetrattech.com

Part-time Schedule: Monday – Friday

Tetra Tech | Portland
1750 S Harbor Way, Suite 400 | Portland, OR 97201 | www.tetrattech.com
Direct: 503.721.7216 x 2241 | Fax: 503.227.1287 | Cell: 541.740.3316

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**Attachment O-2: Record of
Correspondence with Hermiston Water
Department**

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From: [Roy Bicknell](#)
To: [Gulick, Kristen](#); [Alex Mccann](#)
Cc: [Mark Morgan](#)
Subject: RE: AWAITING REPLY: Hermiston Water Department Agreement with Wagon Trail Solar Project/Wheatridge Wind/Solar Project
Date: Tuesday, January 12, 2021 7:47:03 AM

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Kristen,

At this time, it appears the City can still provide the water as the letter states, under normal conditions.

Thank you~Roy

Roy Bicknell
City of Hermiston

From: Gulick, Kristen <Kristen.Gulick@tetrattech.com>
Sent: Monday, January 11, 2021 1:01 PM
To: Alex Mccann <amccann@hermiston.or.us>
Cc: Roy Bicknell <rbicknell@hermiston.or.us>; Roy Bicknell <rbicknell@hermiston.or.us>
Subject: AWAITING REPLY: Hermiston Water Department Agreement with Wagon Trail Solar Project/Wheatridge Wind/Solar Project
Importance: High

STOP and VERIFY - This message came from outside of the City of Hermiston.

Hello,

I am contacting you on behalf of the proposed Wagon Trail Solar Project (Wagon Trail). Wagon Trail would be collocated and operated by the same owners (NextEra) as the Wheatridge Wind/Solar Project (Wheatridge). Wagon Trail would be an up to 500-megwatt solar energy generation facility with related or supporting facilities including a battery energy storage system in Morrow County, Oregon. More information on Wheatridge can be found here:

<https://www.oregon.gov/energy/facilities-safety/facilities/Pages/WREF-II.aspx> and more information on Wagon Trail can be found here: <https://www.oregon.gov/energy/facilities-safety/facilities/Pages/WTS.aspx>.

Correspondence was received from you in 2014 as well as 2018 confirming that the Hermiston Water Department will be able to supply water (2.2 million gallons/month) as needed for Wheatridge. Please see attached records of correspondence. Therefore, we are hoping you could provide an updated letter confirming that you can provide at least an updated amount of 12 million gallons for Wagon Trail. This is our current, conservative, estimate of water use anticipated for

facility construction over a 9 to 12-month period.

Tetra Tech is under contract to NextEra through the Oregon Dept. of Energy's (ODOE) permitting process. To this end, we will provide to ODOE evidence of consultation with local municipalities that we have been in contact regarding obtaining water for the construction of Wagon Trail. At this point in the process, NextEra is not required to have entered into a contract with the Hermiston Water Department for water supply, we just need to demonstrate to ODOE that we have been in consultation with the Hermiston Water Department and that yes, you are licensed to supply water to NextEra, how much, your water right permit number(s; G6831), and seasonal constraints. Any letter from you to me on this subject does not constitute a contract and you are under no obligation to supply water for the facility, we just need to demonstrate to ODOE that you have water to sell and that we could use as a water supplier if we, at a later date, come to an agreement to do so.

If you could please provide an updated letter addressing the Wagon Trail Solar Project as soon as possible, that would be greatly appreciated. It can be a statement on your letterhead with your signature if you like, or even a reply to this email.

Thank you!

Kristen Gulick | Environmental Planner
Kristen.Gulick@tetrattech.com

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**Attachment O-3: Record of
Correspondence with Stanfield Public
Works Department**

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From: [Scott Morris](#)
To: [Gulick, Kristen](#)
Subject: RE: ATTENTION/RESPONSE REQUIRED: Stanfield Public Works Agreement with Wagon Trail Solar Project/Wheatridge Wind/Solar Project
Date: Friday, December 11, 2020 9:53:16 AM

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Kristen,

Good morning,

The City of Stanfield is still able to supply your project with the same amount of water.

Thank You

Scott Morris
Public Works Director
City of Stanfield
541-561-8292

From: Gulick, Kristen [mailto:Kristen.Gulick@tetrattech.com]
Sent: Friday, December 11, 2020 8:36 AM
To: Scott Morris <smorris@cityofstanfield.com>
Cc: tmorris@cityofstanfield.com
Subject: ATTENTION/RESPONSE REQUIRED: Stanfield Public Works Agreement with Wagon Trail Solar Project/Wheatridge Wind/Solar Project
Importance: High

Hello,

I am contacting you on behalf of the proposed Wagon Trail Solar Project (Wagon Trail). Wagon Trail would be collocated and operated by the same owners (NextEra) as the Wheatridge Wind/Solar Project (Wheatridge). Wagon Trail would be an up to 500-megwatt solar energy generation facility with related or supporting facilities including a battery energy storage system in Morrow County, Oregon. More information on Wheatridge can be found here:

<https://www.oregon.gov/energy/facilities-safety/facilities/Pages/WREF-II.aspx> and more information on Wagon Trail can be found here: <https://www.oregon.gov/energy/facilities-safety/facilities/Pages/WTS.aspx>.

Correspondence was received from you in 2014 as well as 2018 confirming that the Stanfield Public Works will be able to supply water (60,000 gallons/day or 1.8 million gallons/month) as needed for Wheatridge. Please see attached records of correspondence. Therefore, we are hoping you could provide an updated letter confirming that you can provide at least an updated amount of 12 million gallons for Wagon Trail. This is our current, conservative, estimate of water use anticipated for facility construction over a 9 to 12-month period.

Tetra Tech is under contract to NextEra through the Oregon Dept. of Energy's (ODOE) permitting process. To this end, we will provide to ODOE evidence of consultation with local municipalities that we have been in contact regarding obtaining water for the construction of Wagon Trail. At this point in the process, NextEra is not required to have entered into a contract with the Stanfield Public Works for water supply, we just need to demonstrate to ODOE that we have been in consultation with the Stanfield Public Works and that yes, you are licensed to supply water to NextEra, how much, your water right permit number(s; 12224 and 66058), and seasonal constraints. Any letter from you to me on this subject does not constitute a contract and you are under no obligation to supply water for the facility, we just need to demonstrate to ODOE that you have water to sell and that we could use as a water supplier if we, at a later date, come to an agreement to do so.

If you could please provide an updated letter addressing the Wagon Trail Solar Project as soon as possible, that would be greatly appreciated. It can be a statement on your letterhead with your signature if you like, or even a reply to this email.

Thank you!

Kristen Gulick | Environmental Planner
Kristen.Gulick@tetrattech.com

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Attachment O-4: Record of Correspondence with Port of Morrow

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December 14, 2020

Tetra Tech, Inc.
Kristen Gulick
Environmental Planner
1750 SW Harbor Way, Suite 400
Portland OR, 97201

RE: Water Availability for the Wagon Trail Solar Project

Dear Ms. Gulick

The Port of Morrow owns three Industrial Parks in Morrow County. One, is located in Boardman; another one is located six miles west of Boardman at the Ports Airport and one in near Heppner, at the old Kinzua Mill site. At each of those locations we have water that would be available to sell to the Wagon Trail Solar Project.

In Boardman we have many sources of water available for your utilization. With our water sources we would have adequate water supply to sell you the 78 million gallons or any additional you may require. We could also sell you that amount from the Airport system as well as the site in Heppner if you so choose to.

If you need any additional information, please do not hesitate to contact us.

Sincerely,

Ryan Neal
Executive Director

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