

**Attachment A: PERMITTED CONSTRUCTION/MODIFICATIONS**

PWSID No. 4490319  
Encina Fort Union LLC  
Issued October 5, 2023

The following facilities and treatments systems are approved and shall be installed as described in your NCWS Application. The facilities and treatments systems shall be maintained and kept in working condition.

<input checked="" type="checkbox"/> <b>Well</b>				
Well Name	<b>NP-1</b>	Maximum Instantaneous Pumping Rate	<b>35 gpm</b>	
Location	<b>[REDACTED]</b>		<b>(Limited to 30 gpm by treatment facilities.)</b>	
<input checked="" type="checkbox"/> <b>Sodium Hypochlorite Disinfection</b>				
Chemical Feed Location	<b>Raw Water</b>	Disinfection Segment	<b>Baffling Factor</b>	
		<b>1,500-gallon tank</b>	<b>0.6</b>	
<input checked="" type="checkbox"/> <b>Iron and Manganese Treatment</b>				
<input checked="" type="checkbox"/> <b>Preoxidation</b>				
Chemical Type	<b>Sodium Hypochlorite</b>	Chemical Feed Location	<b>Raw Water</b>	
<input checked="" type="checkbox"/> <b>Manganese Coated Greensand Filtration – Greensand Plus</b>				
Number of Units	<b>2</b>	Height	<b>64.3 inches</b>	
Maximum Rate of Filtration	<b>9.5 gpm/ft<sup>2</sup> (1 unit online) or 30 gpm per vessel.</b>	Diameter	<b>24 inches</b>	
Routine Rate of Filtration	<b>4.8 gpm/ft<sup>2</sup> (2 units online) or 15 gpm per vessel.</b>	Media Depth	<b>30 inches</b>	
Backwash Rate	<b>12 gpm/ft<sup>2</sup> or 37.7 gpm per vessel.</b>			
<input checked="" type="checkbox"/> <b>Pump Station</b>				
Location	<b>Filter Building</b>	Number of Pumps	<b>2</b>	
Pump No.	<b>1</b>	Pump No.	<b>2</b>	
GPM	<b>85 gpm</b>	GPM	<b>85 gpm</b>	
TDH	<b>180 feet</b>	TDH	<b>180 feet</b>	
Hydropneumatic Tank	<b>1 - 44 gallons</b>			
<input checked="" type="checkbox"/> <b>Contact Tank</b>				
Volume	<b>1,500 gallons</b>	Number of Baffles	<b>Inlet Diffused Baffled Plate</b>	
Length	<b>17.75 feet</b>	Baffling Factor	<b>0.6</b>	
Diameter	<b>4.0 feet</b>			
<input checked="" type="checkbox"/> <b>Finished Water Storage Tank</b>				
Name	<b>FW Tank</b>	Volume	<b>19,820 gallons</b>	
Type of Storage Tank	<b>Factory powder coated, bolted steel tank.</b>	Diameter	<b>15 feet</b>	
		Roof to Sidewall Height	<b>15 feet</b>	
Location	<b>TBD</b>	Max Water Height	<b>10 feet 11 inches</b>	
<input checked="" type="checkbox"/> <b>Distribution System</b>				
Approximate Length	<b>1,500 feet – Phase 1</b>	Material(s)	<b>HDPE</b>	<b>30%</b>
	<b>5,800 feet – Phase 2</b>		<b>SS 316/316L</b>	<b>70%</b>