

## Sensitive Area Determination Checklist

TEP Rocky Mountain, LLC		
<b>Person(s) Conducting Field Inspection</b>	None conducted	
<b>Site Information</b>		
Location:	RWF 34-12 Tank Facility	Time: N/A
Type of Facility:	Existing Well Pad w/ Limited Expansion	
<b>Environmental Conditions</b>		
Temperature (°F)	N/A	

Has the proposed, new or existing location been designated as a sensitive area?

☒ Yes      ☐ No

### **SURFACE WATER**

- Are there any surface water features or SWSAs adjacent to or within ¼ mile of the proposed/new or existing facility?

☒ Yes      ☐ No

If yes, list type of surface water feature(s), i.e. rivers, creeks, streams, seeps, springs, wetlands: One (1) unnamed USGS identified intermittent drainage.

If yes, describe location relative to facility: The unnamed USGS identified intermittent drainage is located approximately 15 feet from the northeastern edge of disturbance.

- Could a potential release from the facility reach surface water features?

☒ Yes      ☐ No

If yes, describe the pathway a release from the facility would likely follow to determine if the potential to impact surface water is high or low. If a potential release were to migrate off the northeastern side, flow would be directly towards and into the unnamed intermittent drainage.

Is the potential to impact surface water from a facility release high or low?

☒ High during periods of intermittent flow    ☒ Low during periods of no flow

## GROUNDWATER

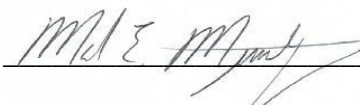
1. Will the proposed/new or existing facility have any pits which will contain hydrocarbons and chlorides or other E&P wastes?  
☐ Yes      ☒ No  
If yes, List the pit type(s):
2. Is the site of the proposed facility underlain by an unconfined aquifer or recharge zone?  
☒ Yes      ☐ No
3. Is the hydraulic conductivity of the underlying soil or geologic material  $\leq 1.0 \times 10^{-7}$  cm/sec?  
☐ Yes      ☒ No
4. Is the proposed facility located within 1/8 mile of a domestic water well or 1/4 mile of a public water supply well which would use the same aquifer?  
☐ Yes      ☒ No
5. Is the proposed facility located within a 100 year floodplain?  
☐ Yes (*Sensitive Area*)      ☒ No (*If no, proceed to question #6.*)
6. Is the depth to groundwater known?  
☐ Yes (*If yes, follow instructions provided in 6(a) of this section.*)  
☒ No (*If no, follow instructions provided in 6(b) of this section.*)
  - (a) If yes, could a potential release from the proposed facility reach groundwater?  
☐ Yes      ☐ No  
If yes, explain:
  - (b) If no:
    - (i) Evaluate surrounding soils, topography, and vegetation which may suggest the presence of shallow groundwater.
    - (ii) Gather information from surrounding well data in order to determine a depth to groundwater, i.e. State Engineers Office.
7. Is the potential to impact ground water from the facility in the event of a release high or low?  
☐ High      ☒ Low

### **Additional Comments:**

As stated in the surface water section of this sensitive area determination, there is one (1) unnamed USGS identified intermittent drainage located within a ¼ mile of the existing facility. The facility, as it currently constructed and with the minor expansion, limits the direction of a potential release the northeastern side. If potential release were to migrate off the facility on the above mentioned side, flow would be to the northeast towards and directly into the unnamed intermittent drainage. During facility expansion, Best Management Practices (BMPs) should be constructed in the form of an earthen perimeter berm along all fill slope sides. If feasible, a diversion ditch should be constructed along the toe of the fill slope sides as well. All newly constructed BMPs should be monitored and maintained to ensure complete containment of a potential release on site.

The State Engineers Office and USGS records were reviewed and there are no permitted water wells in the immediate vicinity of the proposed facility. The closest permitted water well is located 4,082 feet to the east southeast and would not provide accurate information on the depth to groundwater. Based on aerial photography review, the vegetative cover in the immediate vicinity of the proposed facility appears to be fairly sparse and consists of primarily bunch grasses and sage and does not indicate the presence of shallow groundwater. There was no visual evidence of any springs or seeps. Based on the topographic setting of the facility, it could be assumed that the depth to groundwater is most likely greater than 50 feet. Thus the potential to impact groundwater would be deemed to be low.

Based on the information collected during this desk top review, the greatest potential for impacts would be to the unnamed USGS identified intermittent drainage. If a potential release were to migrate off the facility on the northeastern side, flow would be to the northeast a short distance where it would enter the unnamed intermittent drainage. The drainage does exhibit a very defined channel with little or no debris/vegetation indicating it does flow intermittently during the year most likely in the early spring and during heavier precipitation events. If a release were to enter the drainage during periods of intermittent flow, impacts could potentially reach the Colorado River as the drainage feature has direct hydraulic connection to the river. However, the severity of potential impacts to the Colorado River is not known but could be fairly low due to the distance to the river and the fact the drainage feature is fed by several smaller drainages further to the south prior to entering the Colorado River. Even with the high potential for impacts to surface water features and actual flowing surface water during periods of intermittent flow, the new tanks slated for the facility will be placed in a newly constructed steel lined containment structure which is designed to capture and contain any fluids from a potential release. In addition, if BMP's are constructed, as noted above, the likelihood of any fluid migration off site is low. Even with the low potential for impacts to migrate off site, the close proximity of the intermittent drainage feature would classify the facility as being in a sensitive area.

Inspector Signature(s):  Date: 5/6/2019

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