

Sensitive Area Determination Checklist

| TEP Rocky Mountain, LLC | | |
|--|---|-------|
| Person(s) Conducting Field Inspection | Jacob Forsman | |
| Site Information | | |
| Location: | RWF 13-19 | Time: |
| Type of Facility: | Existing Well Pad with Proposed Expansion | |
| Environmental Conditions | Sunny, hot and dry | |
| | | |
| Temperature (°F) | 85 | |

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

Yes No

SURFACE WATER

1. 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 ephemeral drainage identified during the site visit.

If yes, describe location relative to facility: The ephemeral drainage is located approximately 50 feet off the southeastern corner of the proposed facility expansion.

2. 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.

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

High Low

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): Cuttings trench on the southern side of the facility

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.

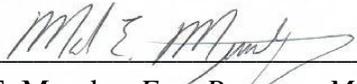
7. Is the potential to impact ground water from the facility in the event of a release high or low?
 High Low

Additional Comments:

As stated in the surface water portion of this sensitive area determination; there is one (1) unnamed ephemeral drainage, identified during the site visit, located within a ¼ mile of the proposed facility expansion. The facility, as it is currently proposed to be expanded, limits the direction of a potential release to the eastern side where the access road enters the location. If a potential release were to migrate off the facility on the eastern side, flow would be to the east along the existing access road. During facility expansion, Best Management Practices (BMP's) should be installed in the form of an earthen perimeter berm on the eastern side of the facility as this will be the only area with any noted fill. A raised pad entrance should also be constructed to prevent any fluid migration down the access road. All existing and newly constructed BMPs should be monitored and maintained to ensure containment of a potential release on site.

The State Engineer's Office and USGS records were reviewed and no records were revealed which would provide additional information pertaining to the depth to groundwater. The closest permitted water well is located 2,632 feet to the southwest of the existing facility. Well logs indicate that the static water level in this well is approximately 60 feet. The well is also approximately 400 feet lower in elevation than the existing/proposed facility expansion. The vegetation in the immediate vicinity of the facility is dominated by sage, juniper, and bunch grasses which does not suggest the presents of shallow groundwater. In addition, there were no springs or seeps identified in the immediate vicinity of the facility. Therefore, based on the vegetative cover and topography, it could be assumed that the depth to groundwater would be in excess of 100 feet, if not greater, in the immediate vicinity of the existing facility. Hence the potential to impact groundwater would be deemed to be low.

Based on the information collected during the site investigation and desk top review, the greatest potential for impacts would be to the field identified ephemeral drainage located to the southeast of the existing facility. However with the current plan for expansion, the drainage would not be impacted due to man-made modifications to the land surface and natural topographic highs. With the potential for impacts to surface water features and groundwater being deemed as low, the facility can be designated as being in a non-sensitive area.

Inspector Signature(s):  Date: 7/12/2017
Mark E. Mumby, *Env. Program Manager/RPG*
HRL Compliance Solutions, Inc.