Cleanup Level Summary Document

This document is intended to establish minimum cleanup values for oil and gas exploration and production (E&P) related sites. Utah Administrative Code R649-3 and R649-9 should be used in conjunction with this guidance.

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Our Mission

The Utah Oil and Gas Program within the Division of Oil, Gas and Mining:
- Promote the exploration, development and conservation of oil and gas resources
- Foster a fair economic return to the general public for those resources
- Maintain sound, regulatory oversight to ensure environmentally acceptable activities
**Scope and Applicability**
This document depicts minimum cleanup levels for surface abandonment of E&P materials in the State of Utah. Sensitive sites may be required to meet more stringent abandonment levels. For a more complete discussion of required cleanup levels, refer to the Cleanup Level Guidance Document.

**Cleanup Level Summary**
Recommended abandonment levels:

**SALINITY:**
- Electrical Conductivity: EC ≤ 4 mmho/cm
- Exchangeable Sodium Percentage: ESP ≤ 15%
- Sodium Adsorption Ratio: SAR ≤ 12

**HYDROCARBON CONTENT:**
- 1% or 10,000 ppm TPH

TPH will be characterized using the following TRPH fractions:

- TRPH = GRO + DRO + ORO
- GROmax = 1,000 ppm
- DROmax = 2,000 ppm

TPH of 0.01 ppm to 9,999 ppm is required for sensitive sites. Cleanup level will be dependent upon the BTEXN levels in waste; consult with the Division for guidance.

- Benzene ≤ 0.9 ppm
- Toluene ≤ 25 ppm
- Ethylbenzene ≤ 23 ppm
- Xylene ≤ 142 ppm
- Naphthalene ≤ 51 ppm

**METALS:**
If Toxicity Characteristic Leaching Procedure (TCLP) testing is determined to be required, the following limits for heavy metals will be used.

- As ≤ 5 ppm
- Ba ≤ 100 ppm
- Cd ≤ 1 ppm
- Se ≤ 1 ppm
- Cr ≤ 5 ppm
- Pb ≤ 5 ppm
- Hg ≤ 0.2 ppm
- Ag ≤ 5 ppm