

PLANNING BMP's

- Avoid constructing any road segment in the channel of an intermittent or perennial stream
- Minimize the number, length, and footprint of oil and gas development roads
- Use existing roads where possible
- Combine utility infrastructure (gas, electric, and water) planning with roadway planning to avoid separate utility corridors

- Where possible, consolidate pipeline and existing roadways, or roadways that are planned for development
- Design roads with visual and auditory buffers or screens (e.g., topographic barriers, vegetation, and distance).
- Maximize use of remote telemetry for well monitoring to minimize traffic
- Restrict oil and gas activities as practical during critical seasonal periods
- Implement self imposed timing limitations to protect species and/or habitat

PRODUCTION/RECLAMATION BMP's

- Utilize staked soil retention blankets for erosion control and reclamation of large surface areas with 1.5:1 or steeper slopes.
- Avoid use of plastic blanket materials.
- Remove well pad and road surface materials that are incompatible with post-production land use and re-vegetation requirements
- Use only certified weed-free native seed in seed mixes, except for non-native plants that benefit wildlife
- Willams will use certified, weed free grass hay, straw, hay or other mulch materials used for the reseeding and reclamation of disturbed areas.
- Install exclusionary devices to prevent bird and other wildlife access to equipment stacks, vents and openings.
- Reduce visits to well-sites through remote monitoring (i.e. SCADA) and the use of multi-function contractors.
- Avoid dust suppression activities within 300 feet of the ordinary high water mark of any reservoir, lake, wetland, or natural perennial or seasonally flowing stream or river where possible.