

## ESTERLING 2A PAD WASTE MANAGEMENT PLAN

- Waste types may include the following waste types; impacted soils from spills of produced water or liquid hydrocarbons, produced water, completion flow-back water, and bentonitic-based drilling mud/cuttings.
- Waste materials may be treated to reduce levels of specific compounds or chemicals to meet applicable concentration thresholds as listed in COGCC Rules & Regulations Table 910-1.
- Treatment may include mixing, use of chemical treatments, addition of amendments, bioremediation, liquids removal, or other approved methods.
- To the extent practicable, BBC will reuse, recycle, and/or put to beneficial use all waste materials generated during the drilling, completion and production of wells. Prior to any beneficial reuse of E&P waste materials a COGCC Form 4 sundry notice will be submitted to the COGCC describing specifics of the beneficial reuse as appropriate under Rule 907a.
- All BBC E&P waste for disposal or recycling/reuse shall be transported by third-party trucking contractors to facilities authorized by the COGCC or waste disposal facilities approved to receive E&P waste by the Colorado Department of Public Health and Environment.
- These facilities may include: BBC permitted; SWD wells, water management facilities, or landfarms, commercial; waste disposal facilities, SWD facilities, water management facilities, spreading properties, or landfarms. Any of the above facilities will be properly permitted with COGCC or the applicable agency(ies) and/or will be noticed to COGCC through a Form 4 sundry notice as appropriate under Rule 907a.
- ‘Beneficial use’ of cuttings may include building secondary containment berms or structures, pad construction or reclamation, soil amendments, land improvements, road construction or enhancement, or dust suppression. All of these uses shall require that the waste materials meet the applicable federal, state, or local concentration thresholds for the appropriate inorganic and organic compounds or chemicals prior to use.
- Mud and drill cuttings will be transported to Konig Ag Co. in Briggsdale, CO for soil amendment/land spreading.
- Unless specified above; specific transporter(s) and location information for treatment, disposal, recycling, or reuse are not known at this time.