

LEGAL AND REGULATORY PERMITTING FOR RE-USE OF PURIFIED PRODUCED WATER

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Altela, Inc. has developed a fundamentally new produced water treatment product, the AltelaRainSM System, that creates pure water from highly salinated and contaminated water sources. Since the treated water stream is distilled water, the quality of water from the AltelaRainSM System is extremely high and can be used at the well site for frac/well completion water, irrigation, stock watering, or other clean water uses following applicable legal and regulatory permitting.

This presentation provides a brief update and summary with respect to two precedent-setting legal and regulatory permitting projects for successful re-use of purified produced water. The first case study, the Farmington Project, is located within the San Juan Basin of northwestern New Mexico. The Farmington Project received EPA-based approval for the first-of-its-kind centralized produced water treatment facility. This permit allows for the centralized treatment of produced water from several neighboring gas wells for discharge into the publicly owned treatment works (POTW) of the City of Farmington for valuable water right return flow credits to the San Juan River. The second case study, the Navajo Project, is located on Navajo Nation lands. The Navajo Project involves treating highly challenged produced water on-site, adjacent to gas wells located on Navajo Land. Navajo EPA water use permits allow for the subsequent re-use of the clean water for irrigation, livestock and related agricultural uses representing the first such example of environmentally sustainable partnership between water and energy on Navajo lands.

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