

cymric field seep prevention and containment

Chevron takes our responsibility to operate safely and in a manner that protects public health and the environment very seriously. Our goal is to stop and prevent seeps, consistent with updated state regulations, which began in April 2019.

Safety is fundamental and we will continue to conduct activities to comply with regulatory requirements, while protecting people and the environment.

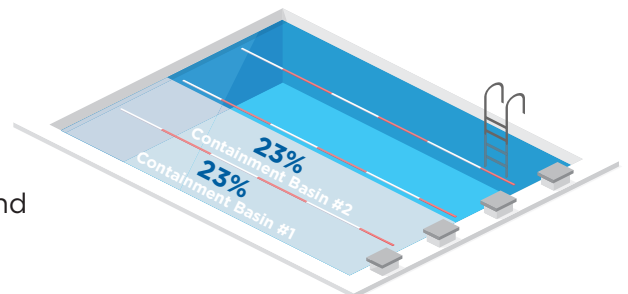
Facts about Thermal Diatomite Production

Chevron's thermal diatomite operations are confined to a dry, remote part of Kern County and are not near populated areas.



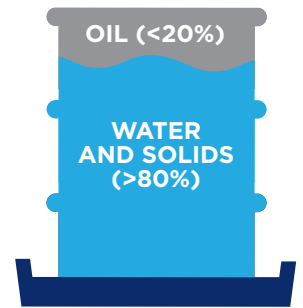
What you need to know about the GS-5 Seep

The GS-5 seep started prior to the 2019 state regulation. Chevron and CalGEM have been managing the seep since it started. Management and containment have been a priority and an engineered containment system was determined to be the best way to manage the seep until it can be permanently stopped. The containment system collects the fluid mixture into two concrete basins. The containment system also includes berms and netting to protect wildlife.



The two GS5 Containment Basins combined are equal to less than half of the volume in an Olympic-sized swimming pool.

There is no impact to public health or drinking water. The flow rate of the seep has varied over time. The fluid, including oil, is recovered. The liquids are separated from any solids and are pumped into the oil and water treating plant at our handling facility and processed like the rest of the oil and water coming from the wells in the field. After separation and treatment, the produced water is reinjected into the oil reservoir or into disposal wells in accordance with applicable permits. Any solids are characterized per regulatory standards and transported to an appropriately licensed disposal facility.



Comprehensive and enhanced programs and safeguards



Advanced Technologies and Protocols

- 24/7 monitoring of ground movement through advanced technologies like tiltmeters and satellites with aerial imaging.
- Steam injection operations modified when a potential subsurface issue is identified by early detection system.
- Field management practices to reduce pressure buildup in the reservoir by careful well steam planning.
- Ground stability validated around active seeps before allowing personnel or equipment to work in the area.



Field-Wide Well Abandonment Program

- Invested more than \$126M since 2016 on a well abandonment program at Cymric field to reduce the potential for seeps.
- Applied learnings from recent seep event to reassess, enhance and accelerate field-wide well abandonment program.



Enhanced Well Integrity Assessments

- Routine testing to confirm well integrity and early detection of damaged well bores.
- Mud injection into any active wells that are suspected to have an integrity issue; wells are prioritized for testing, permanent plugging and abandonment.
- Reassessment of all wells, including those that have already been abandoned, at the Cymric field.