

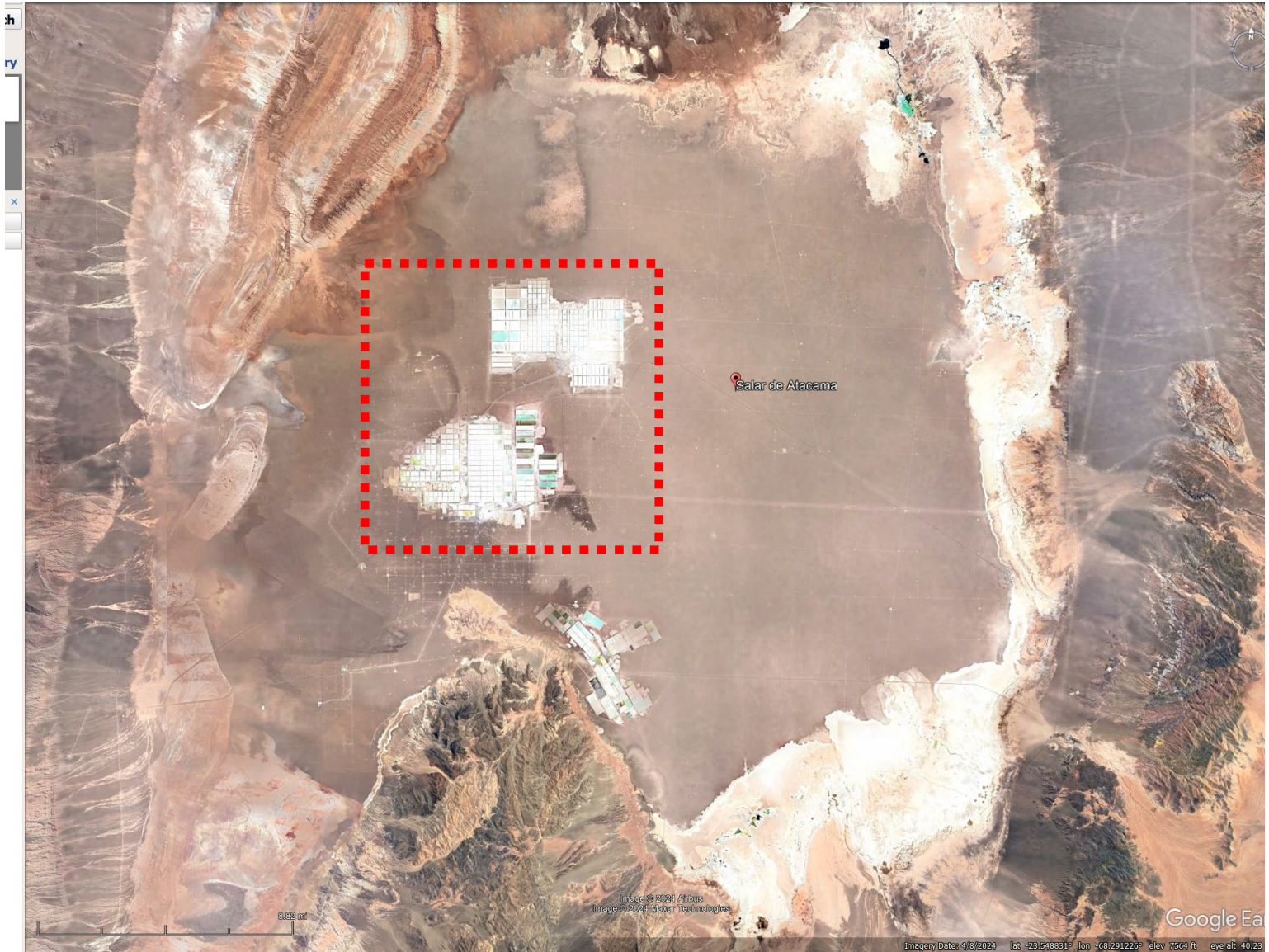
- Lithium triangle**



Salar de Atacama, Chile



- Largest salt flat in Chile



Salar de Atacama, Chile



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Salar de Atacama, Chile



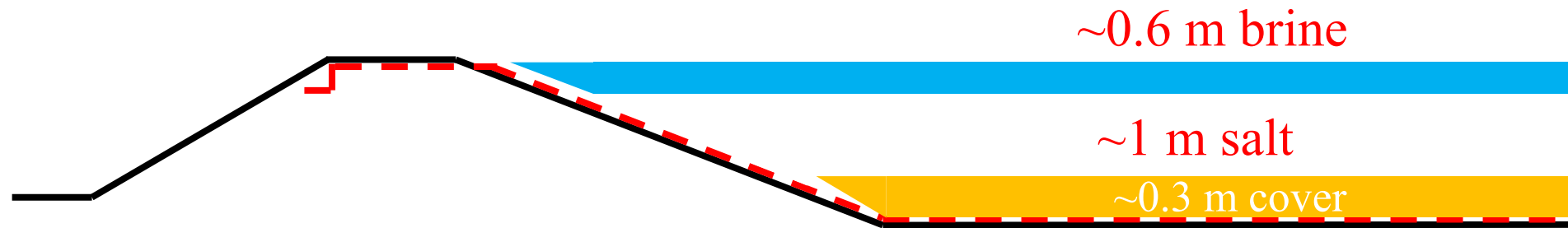
- ~15 ponds per system
- 18 months to complete system



Typical Bottom Liner System



Nonwoven Geotextile
Geomembrane



- 0.3 m thick protective cover
- 1 m thick salt zone
- 0.6 m for liquid brine
- Extend GM over berm – erosion??

- **Black HDPE geomembranes – Heat for evaporation**
- **Warning material – thin GM – red – orange geotextile 6 oz – orange silt/safety fence**
- **Double-lined system???? – leak detection zone**
- **GM/GN/GM – need sump with remote monitoring**
- **Fiber optic system for monitoring**
- **Reinforced v. unreinforced GM = reduce wrinkles**
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Solar Evaporation Pond Best Practices



- White or other light color **reinforced** GM - bottom and berm slopes
- White or other light color **unreinforced** GM - bottom and berm slopes
- Weld using thermofusion welds
- If reinforced GM used, can omit bottom and/or top GT
- Perform leak location survey after protective salt layer is placed
- Place **colored tarp** on top of protective salt layer as warning layer