

## Q1. Describe the aerial imagery your agency has and how it is made available

MT Dept. Of Environmental Quality

#### List the imagery:

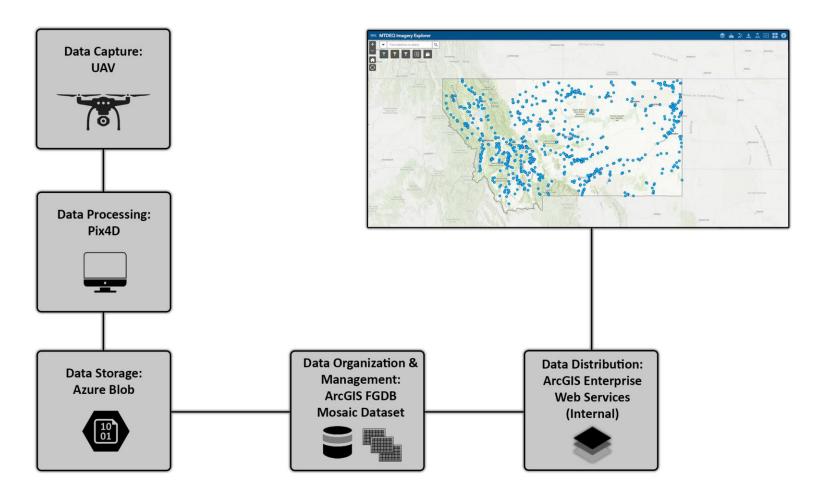
- DEQ image collection consists primarily of 4-band orthomosaics and DSMs captured "in house" with UAVs
- Collected for specific DEQpermitted sites (such as opencut mining permits)
- Resolution typically between 2 and 3 centimeters depending on UAV/camera
- Median footprint = ~60 acres
- ~250 flights in 2023



### How is imagery made available:

 Imagery is made available to internal users of DEQ's Enterprise GIS via ArcGIS web services

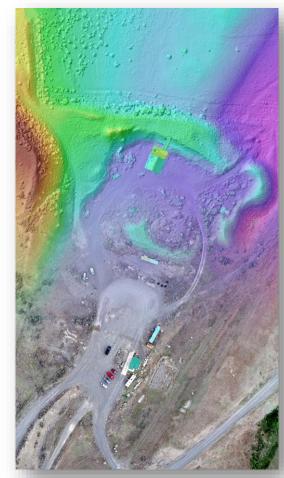
### Q1. (cont.) DEQ Imagery Management Workflow



# Q2. What are your top 2 to 3 business uses for imagery?

#### Top business uses:

- 1. Permit Compliance
  - Easy to identify and communicate permit violations
- 2. Change Detection
  - Visualize how sites evolve over time
- 3. Inspection Efficiency
  - Drastically reduces time needed to inspect sites, essentially can inspect 2x more sites during a typical inspection trip



# Q3. What are your agency's challenges with imagery (top 2 to 3 pain points)?

#### 1. Automation of workflow (specific to DEQ current process)

 Workflow from collection through service creation still has a few "manual" steps, is a bit clunky, and only managed by a small group of people

### 2. Public Data vs Confidentiality Concerns

 Figuring out the right balance between providing public access to data we collect vs concerns about confidentiality of sensitive data

### 3. "Filling the Gaps"

 Finding readily available, high quality, and timely imagery in a State as big and as sparsely populated as MT is challenging

# Q4. What would you want to see out of a state imagery program (your vision)?

- A publicly available State imagery data hub/portal where agencies provide access to image services
- Coordination among agencies where applicable to reduce duplicative collection efforts

### Thank you!