



**CALIFORNIA
CONSERVATION**

Remote Site Data Collection Using ESRI's Collector App

Office of Mine Reclamation
Abandoned Mine Lands Program



Data Collection at Abandoned Mines

Traditional equipment

- Trimble GPS
- Digital camera
- Notebook/data sheets
- Compass
- Multiple paper maps



Data Collection at Abandoned Mines

Replaced by

- iPhone 6 Plus
- BadElf Surveyor GPS



Data Collection Forms Replicated in Collector

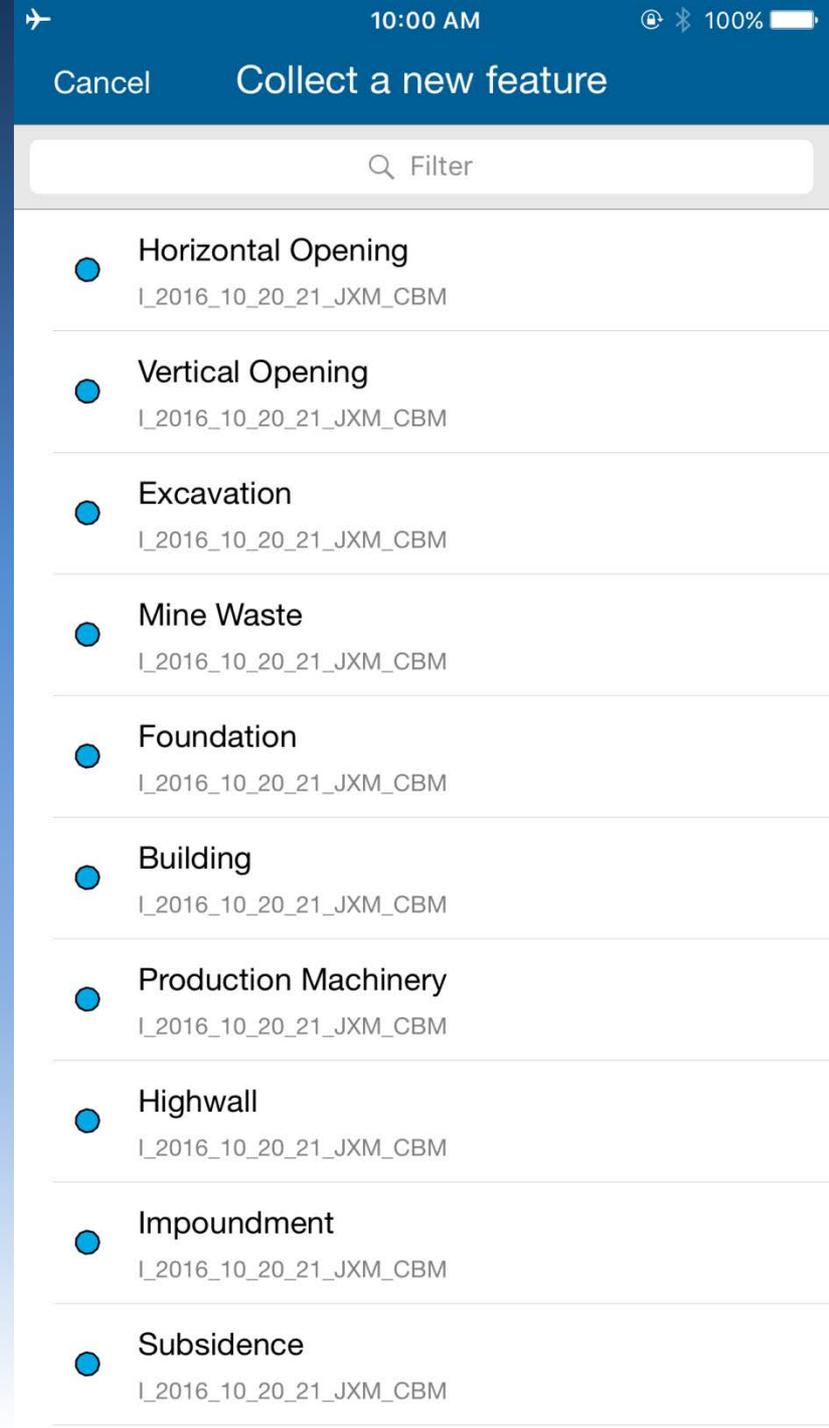
Initial discovery and assessment



Data Collection Forms Replicated in Collector

Initial discovery and assessment

Subtypes allow for collecting different types
of features with different picklists and defaults



Data Collection Forms Replicated in Collector

Initial discovery and assessment

Subtypes allow for collecting different types
of features with different picklists and defaults



10:00 AM 100%

Cancel Done

Condition 1

Filter

<No value> ✓

Open

Closed

Stable

Unstable

Partially Collapsed

Collapsed

Remediated

Backfilled

Bat Gated

Cable Netted

Culvert Gated

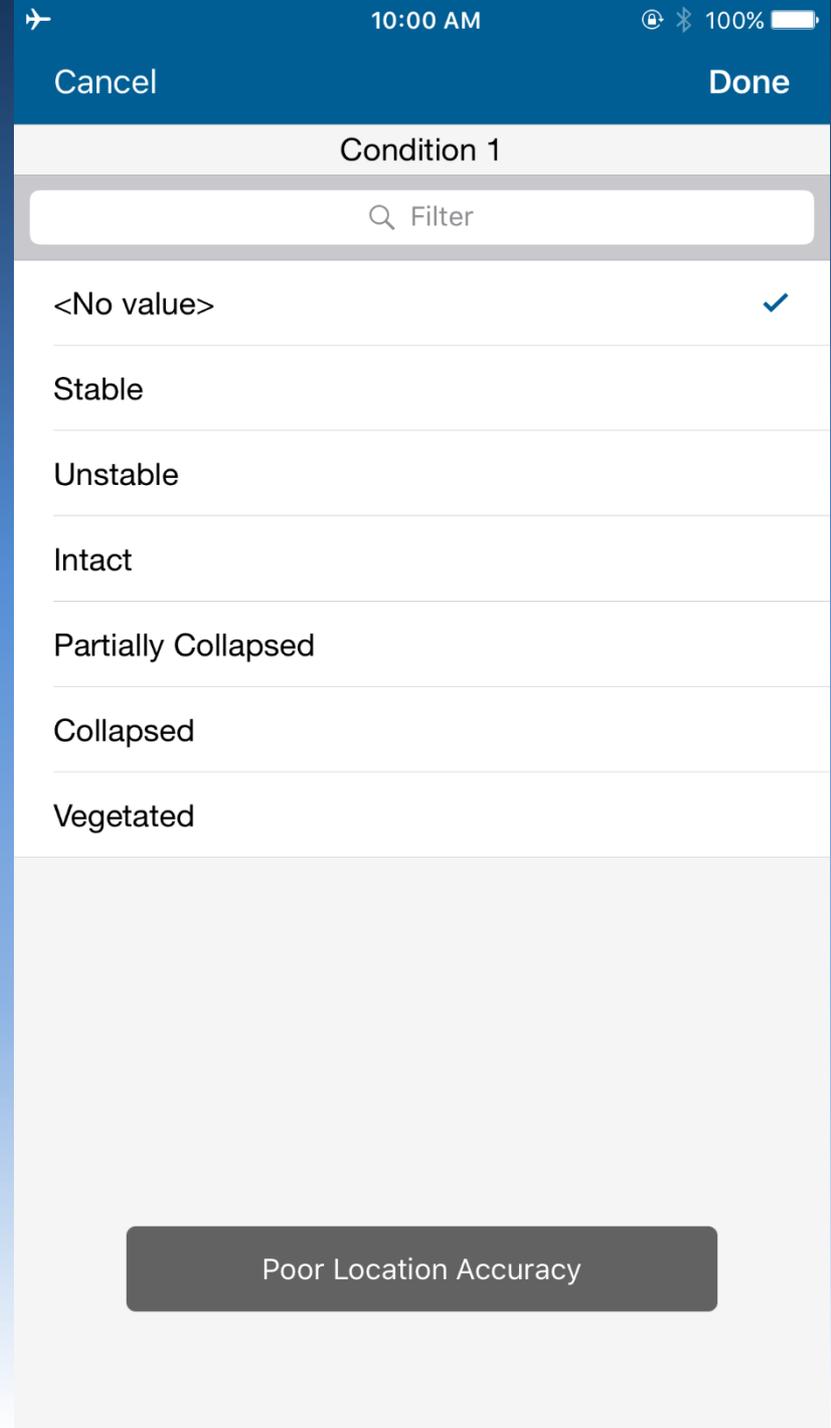
Cupola

Foam Plugged

Data Collection Forms Replicated in Collector

Initial discovery and assessment

Subtypes allow for collecting different types
of features with different picklists and defaults



Data Collection Forms Replicated in Collector

Screening for hazardous metals
using XRF



Data Collection Forms Replicated in Collector

Screening for hazardous metals
using XRF



10:55 AM 100%

Cancel [Settings] [Map] [Camera] Submit

Location
Lat: 38.80989215° Long: -122.36337560°

SampleID >

Type >

Matrix >

Sb >

As >

Ba >

Cd >

Cr >

Co >

Cu >

Pb >

Hg >

Mo >

Ni >

Data Collection Forms Replicated in Collector

Closure construction planning



Data Collection Forms Replicated in Collector

Closure construction planning



10:54 AM 100%

Cancel [Settings Icon] [Map Icon] [Camera Icon] Submit

Location Lat: 38.80886816° Long: -122.35934852°

Feature ID >

Partner ID >

Feature Type >

Closure Type >

Alt Closure Type >

Estimated Cost >

Priority >

X Dimension >

Y Dimension >

Construction Notes >

Access Notes >

Archeology Notes >

Biology Notes >

Other Notes >

Data Collection Forms Replicated in Collector

Closure inspections through time



Data Collection Forms Replicated in Collector

Closure inspections through time using
related records



10:01 AM 100%

Map Details

★ **Location**
Lat: 38.82657268° Long: -122.39337310°

TOTAL_COST

Status

Date_Compl

FY

Map_Number

Agency

Comments

Feature_ID

Project_Na

Funding_So

Contractors

ClosureLocations - closure_inspections

View >

New >

Data Collection Forms Replicated in Collector

Closure inspections through time using
related records



10:01 AM 100%

Cancel  Submit

closure_inspections:

Inspection Date >

Status >

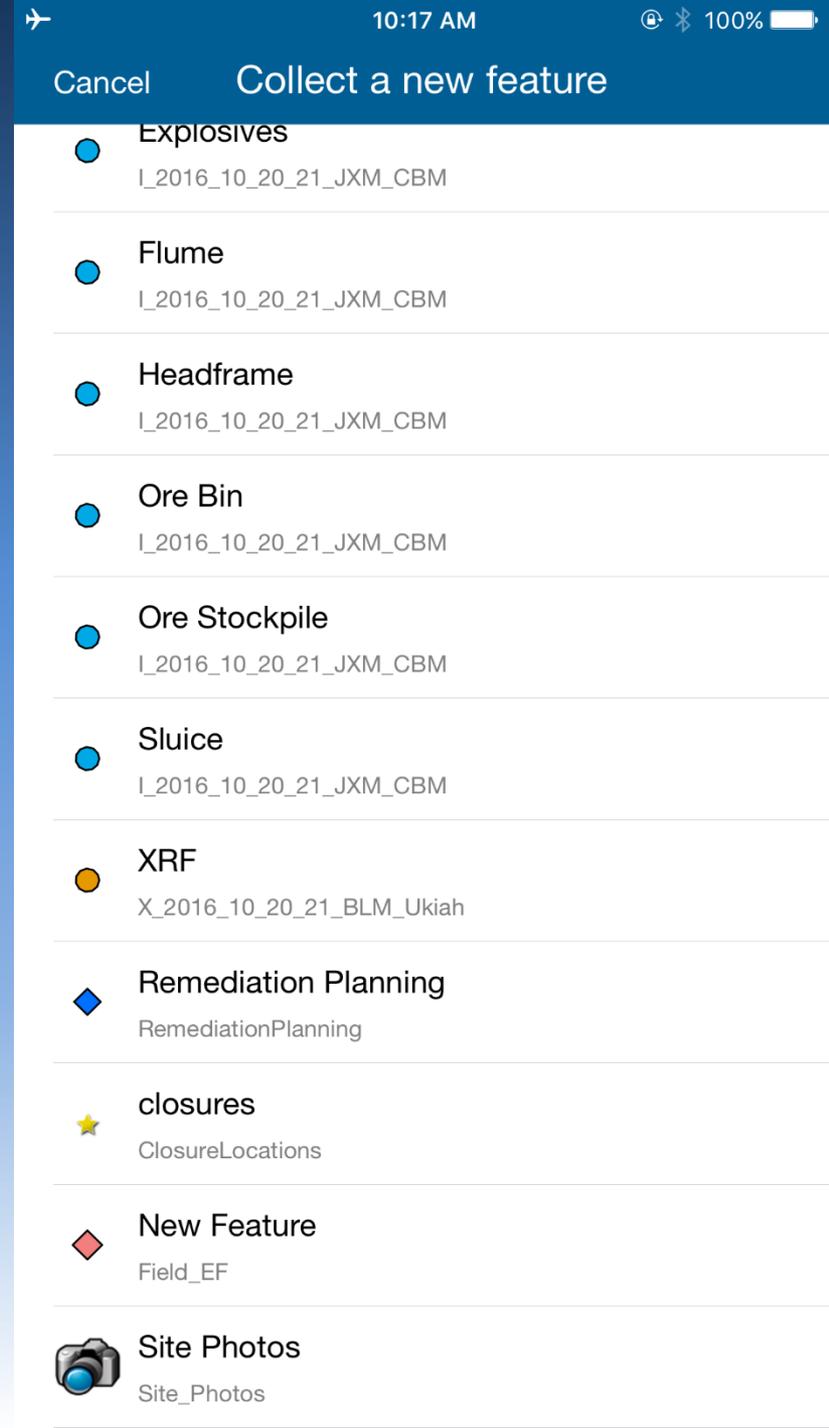
Cause >

Notes >

Inspected by >

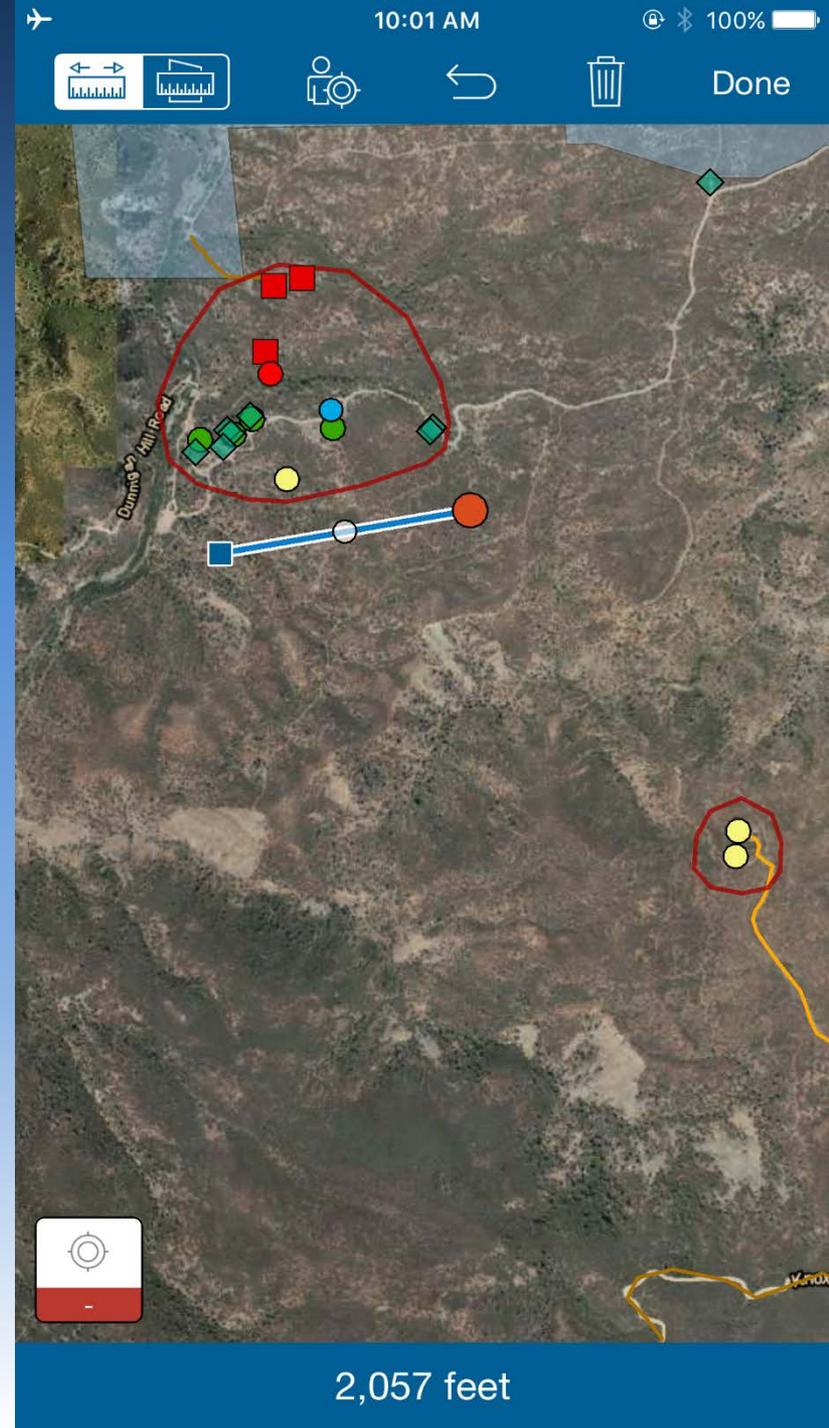
Data Collection Forms Replicated in Collector

Can create many different types of editable features



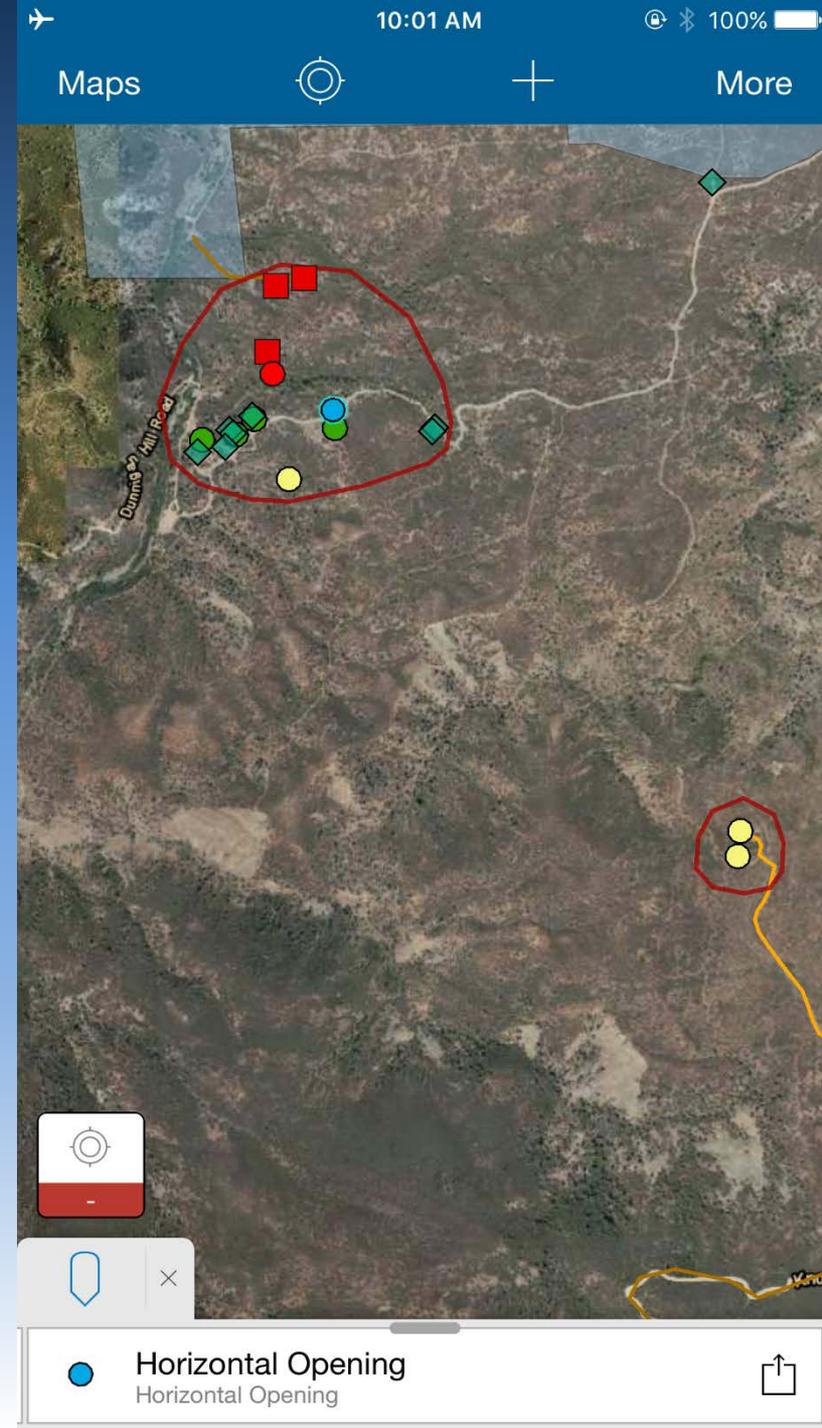
GIS Features in Collector

Allows for easy measurement in the field



GIS Features in Collector

Simple query of features by selecting them onscreen



GIS Features in Collector

Simple query of features by selecting them onscreen



10:18 AM 100%

Map Details

Location
Lat: 38.81038665° Long: -122.37333987°

Excavation 1888-9321

omr_id	282012
mine_id	1888
feature_id	9321
gis_id	J030718A2002JXM1
last_date	March 6, 2002
crew_initials	SER, JXM
mine_name	Unknown
type	Excavation
X	15
Y	30
Z	6
Z_Plus	0
bat_rank	

GIS Features in Collector

Symbology can change by field values



● Location
Lat: 38.81203055° Long: -122.37198911°
Edited by Craig.Mueller_cadoc on Monday at 7:49 AM

TOMS: Prospect

TYPE

Prospect

MINENAME

Unknown

STATUS

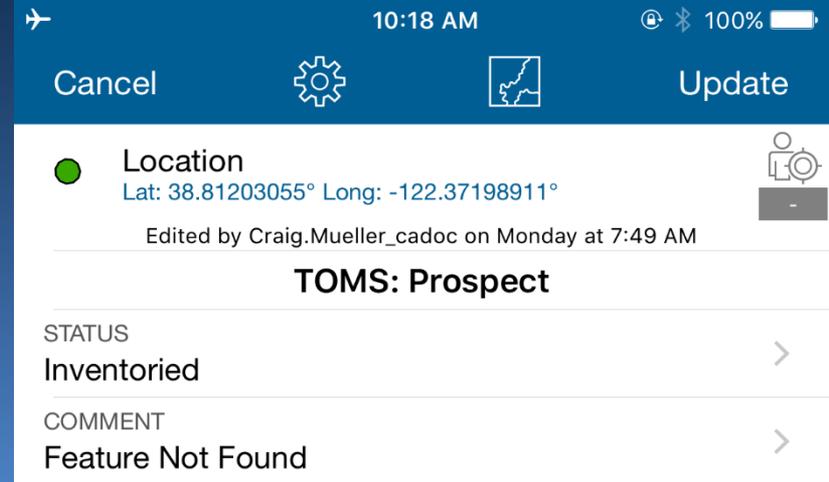
Not Visited

COMMENT

Feature Not Found

GIS Features in Collector

Symbology can change by field values



GIS Features in Collector

GIS metadata can be captured for QA needs



10:56 AM 100%

Bad Elf, LLC #001459 Done

Never updated

Horizontal Accuracy	--
Vertical Accuracy	--
Fix Type	--
Station ID	--
Correction Age	--
Satellites (Used/Visible)	--
Location Profile	Default

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