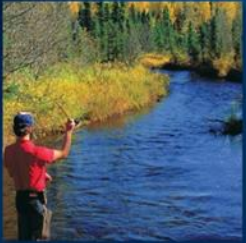


Flow Meter Water Management Program

Nathan Erickson

May 21, 2019

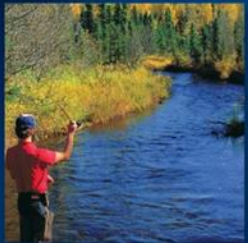




Measurement Device Standards

Minimum Acceptable Standards and Requirements for Measuring Devices

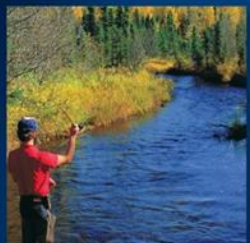
- Open Channel
- Closed Conduit



Approved Closed Conduit Flow Meters

- Independent third party testing at Utah Water Research Laboratory(UWRL)
- Accuracy standard +/- 2%
- List of approved meters on website
- Minimum standards for installation





Full Profile Magnetic

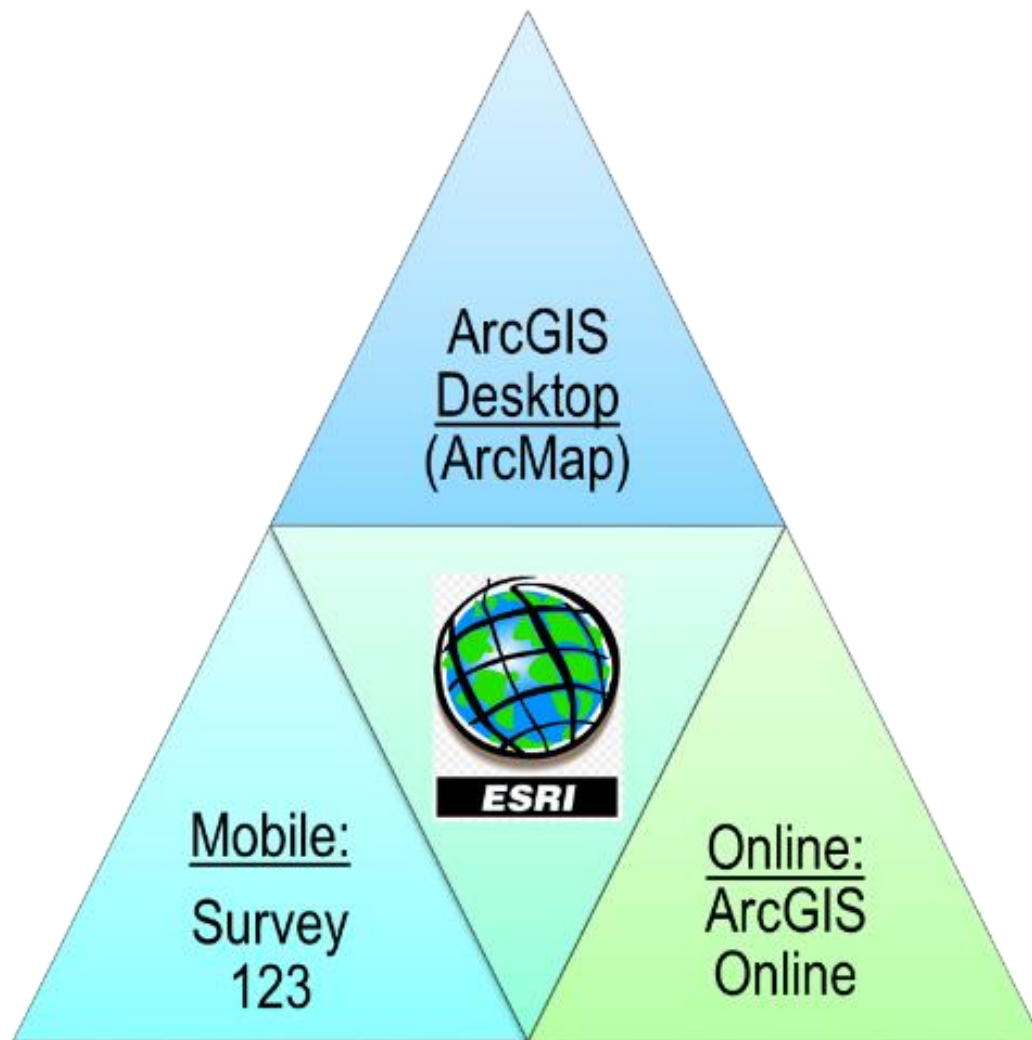
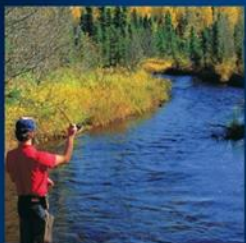
Spooled Ultrasonic

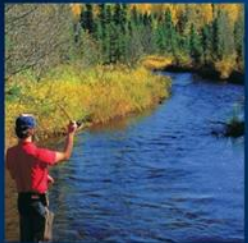


Clamp-on and Wetted Transducer Ultrasonic



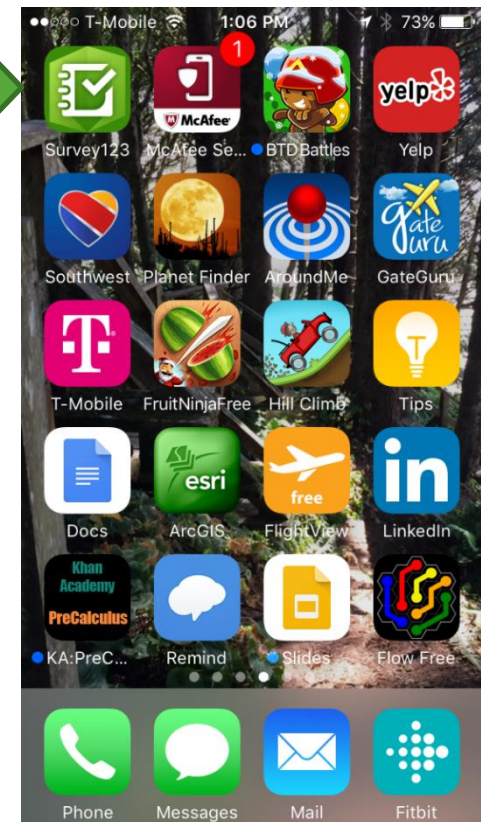
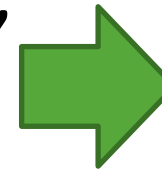






Survey 123

Download app for iOS,
android or windows



* Required Fields

Survey123 Demo IDWR

Well ID *

Check the tag on the well

D12345

Collection Date *

Date

Condition of the well

Fair

Untitled Question 4

43°40'N 116°15'W
± 819.474 m

W-Castle Dr
Wister Dr

Esri contributors

Survey123 Demo IDWR

D12345

Collection Date *

Date

January 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	31
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

Condition of the well

Fair

Survey123 Demo IDWR

D12345

Collection Date *

January 7, 2017

Condition of the well

Fair

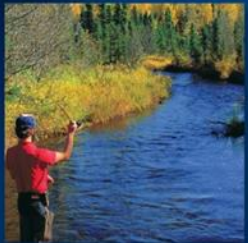
☐ Good

☒ Fair

☐ Poor

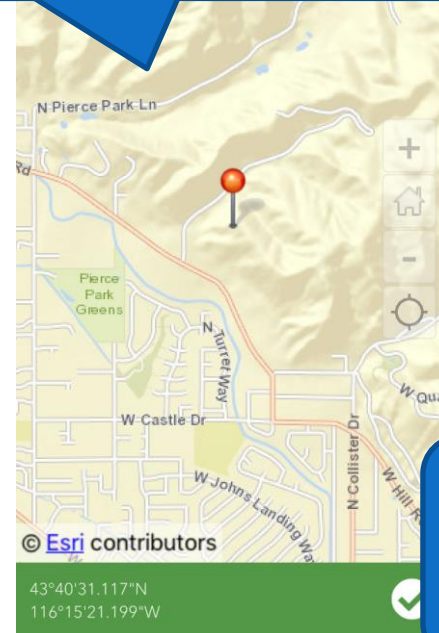
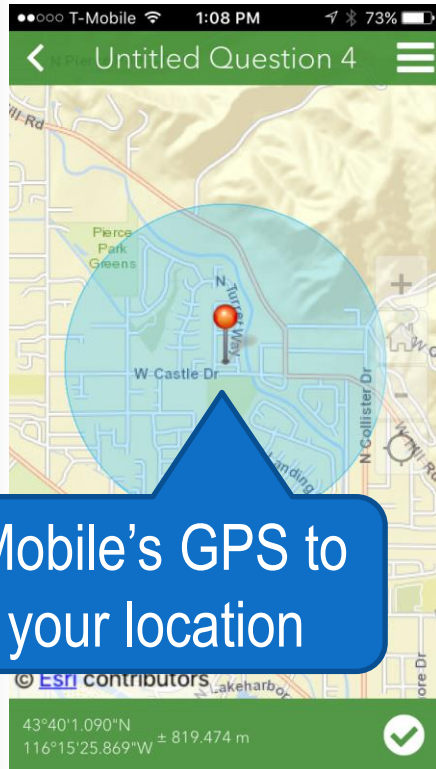
Untitled Question 4

43°40'N 116°15'W
± 819.474 m

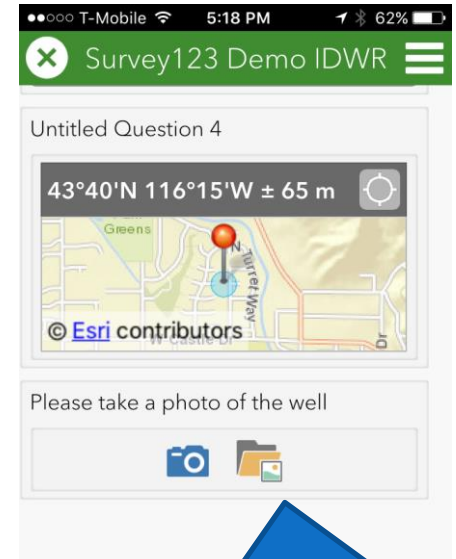


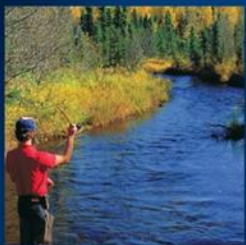
You can drag your map to change the location

Use Mobile's GPS to find your location

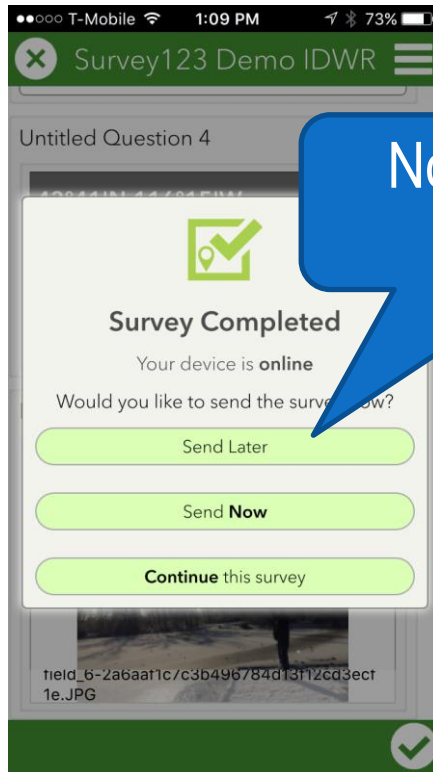
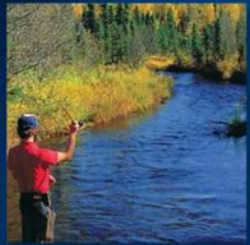


Take a picture with your device, or attach a file



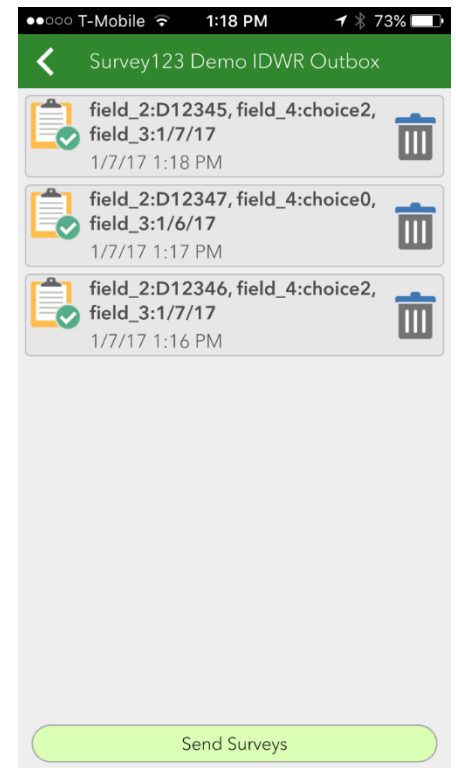
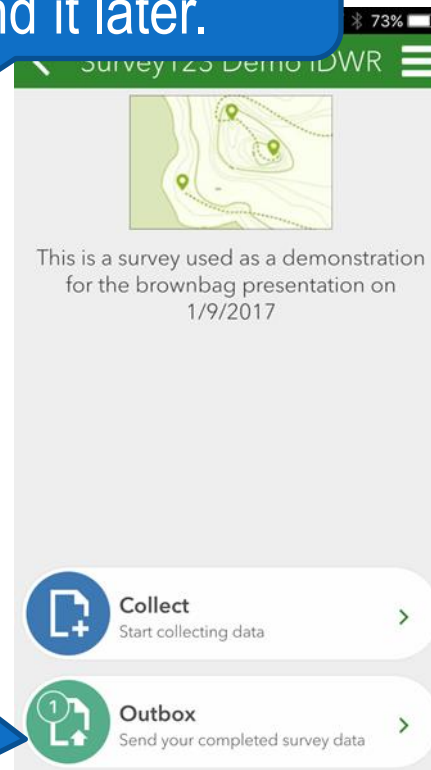


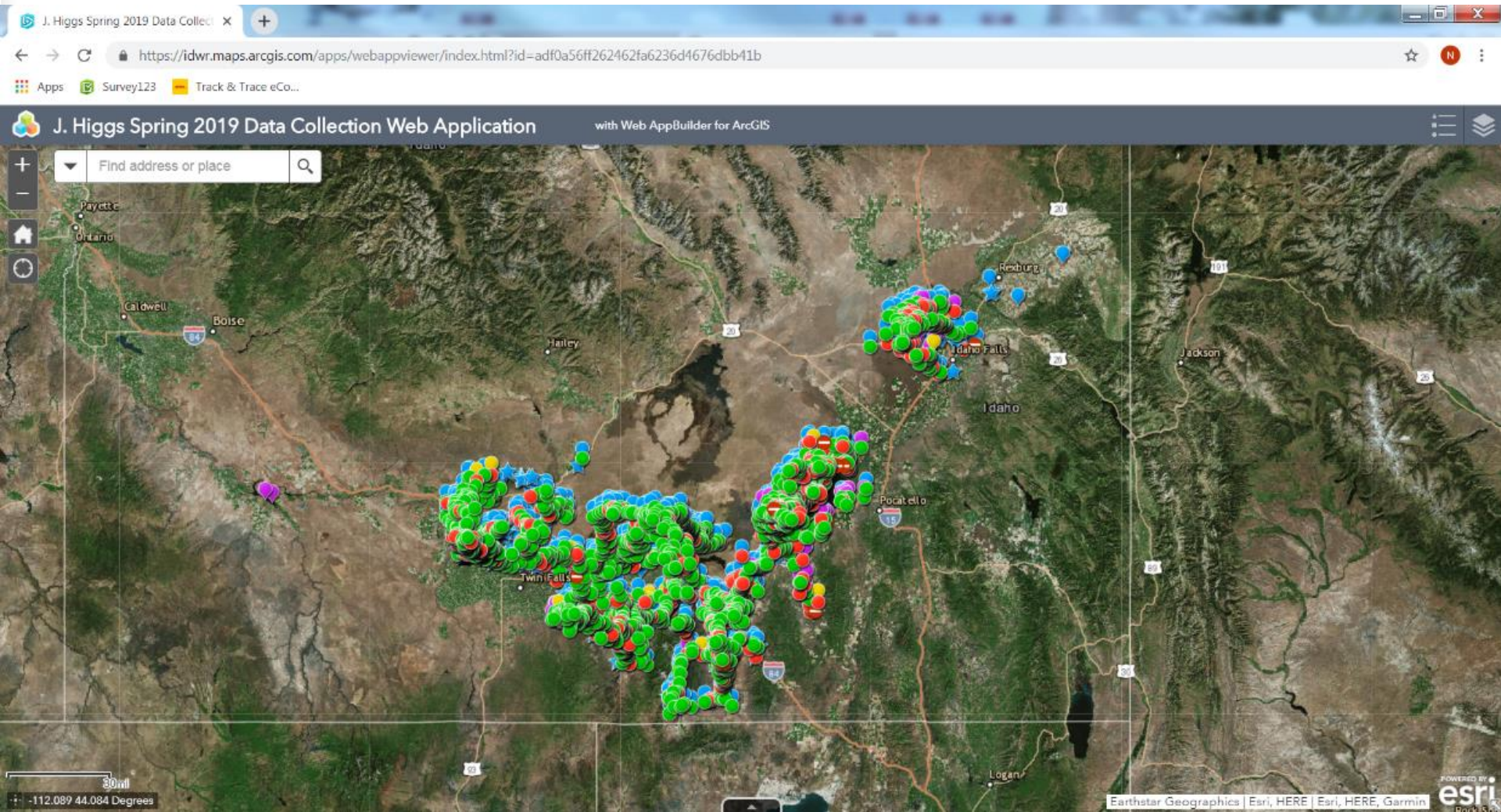


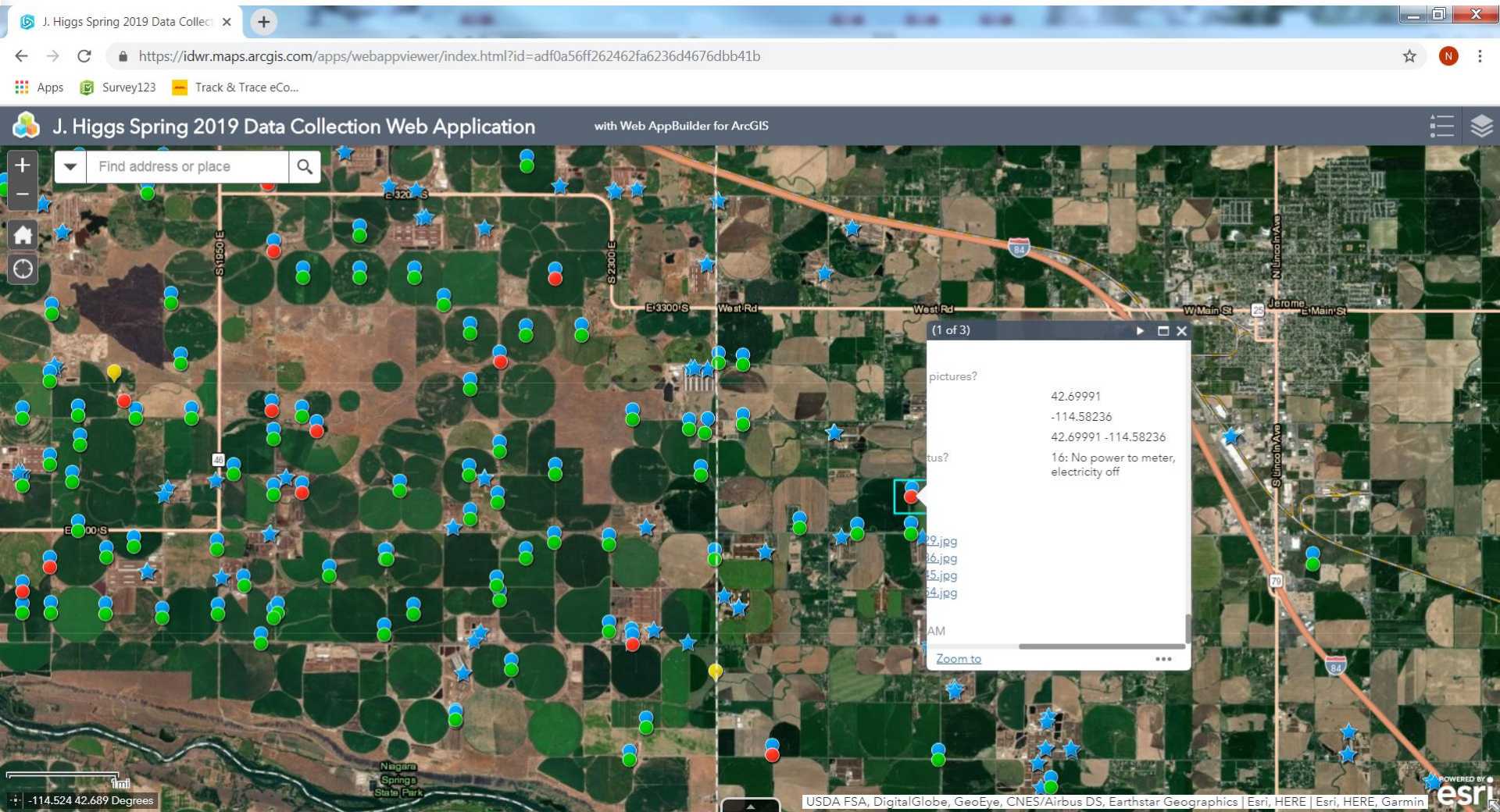


No connectivity?
Send it later.

Survey will sit in your
Outbox until you decide
to send it







019_Flowmeter_\ x +

https://survey123.arcgis.com/surveys/7c4da70c4f9e4848be6a183551d67687/overview

Survey123 for ArcGIS ▾ My Surveys Help

Nathan ▾

JHiggs_Spring_2019_Flowmeter_V2

Overview

Analyze

Data

2,891

Total Records

3

Total Participants

Mar 27
2019

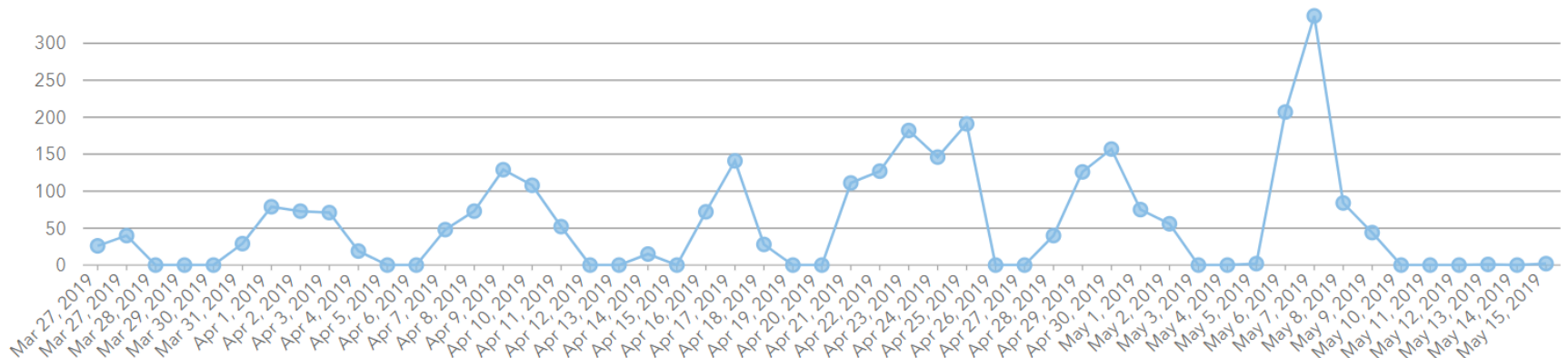
First Submitted On

May 16
2019

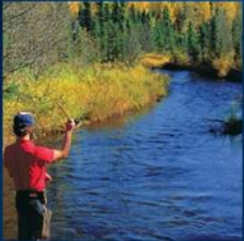
Last Submitted On ⓘ

Surveys Count: 2,891 (Total: 2,891)

📅 3/27/19 - 5/20/19



Water Management Information System (WMIS)



Idaho Department of Water Resources

WMIS Water Management Information System

Quick Search:

[For assistance, email WMIS Info](#)

[Login](#)

Search Method:	Reporting District ▼
Reporting District:	A&B Irrigation District ▼
WMIS Number:	100106 ▼
Legal Description:	09S 22E 3 NE NE SW ▼
Metal Tag Number:	A0018207 ▼

[Point Of Diversion](#) [PCC](#) [Flow Meter](#) [Time Clock](#) [Alternate](#) [Contacts](#) [Data Summary](#) [Other](#) [Logout](#)

Point Of Diversion

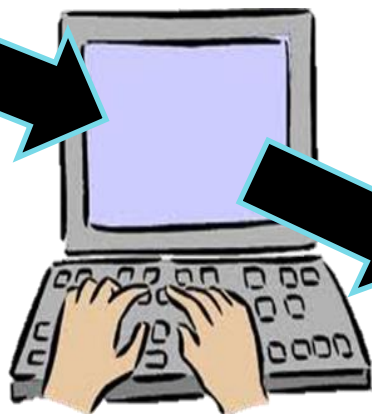
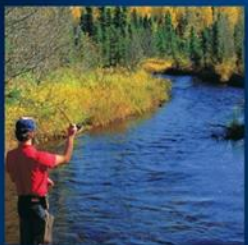
You are viewing 100106, A0018207

WMIS Number	100106	Network Well	No
Reporting District	A&B Irrigation District	Access Port	No
Measurement Option	Flowmeter (1)	Water District	130
Metal Tag Number	A0018207	Tag Location	Nailed to pump panel post.
Followup Date		Comments	Working meter..
Diversion Name	3D 922		

[Search Water Rights](#)

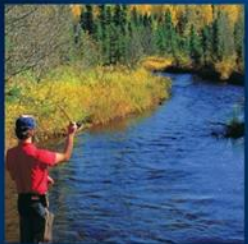
[Contacts](#) [PLSS](#) [Spatial Data](#) [Water Source](#) [Water Rights](#)

Water Right Number	Owner Type	Owner Name	Address	Phone	City/State/Zip	Email
36-15194A	Current Owner	UNITED STATES OF AMERICA ACTING THROUGH	BUREAU OF RECLAMATION REGIONAL DIRECTOR PN CODE-3100 1150 N CURTIS RD STE	2083785306	BOISE, ID 83706-1234	

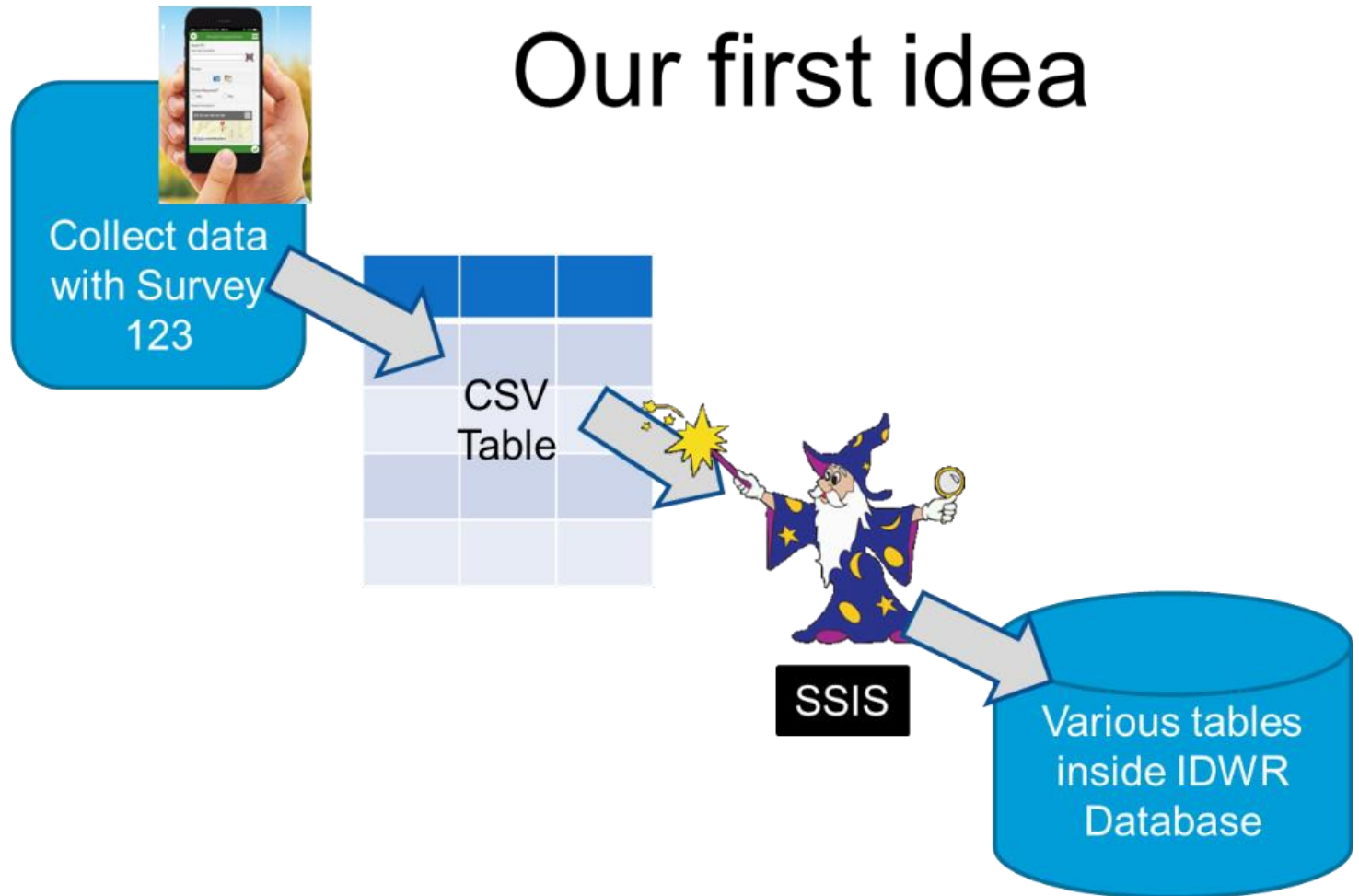


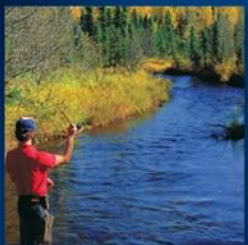
WMIS
Application





Our first idea





Our second idea



Robotic Process Automation (RPA)

The screenshot displays a Windows 7 desktop environment with the UiPath Studio application running. The desktop background is the standard Windows 7 logo wallpaper. The taskbar at the bottom contains several icons, including the Recycle Bin, paint.net, Windows Explorer, VLC media player, Acrobat Reader DC, Workflow, Aquarius to IDWR website, CCleaner, COBURNXP, Google Jabber, Google Chrome, Google Earth Pro, Mozilla Firefox, and the UiPath icon. The UiPath Studio window is titled "dwrtest005" and "UiPath Studio Community - Survey123_to_WMIS". The interface shows a flowchart for "Process one row of data" with the following steps:

- Start
- Read basic variables and variables (Double-click to view)
- Format Inspection Date (Double-click to view)
- Decision: POD? (True leads to Process POD Info, False leads to Decision: PCC?)
- Decision: PCC? (True leads to Process PCC, False leads to Decision: FM Water Usage?)
- Decision: FM Water Usage? (True leads to Process FM Water Usage, False leads to Decision: FM Calibration?)
- Decision: FM Calibration? (True leads to Process FM Calibration, False leads to the end)

The right sidebar shows the Properties panel and the Outline panel. The Properties panel is currently showing the "Common" tab. The Outline panel shows the flowchart structure with a "Main" container and a "Flowchart" container. The flowchart container contains the following steps:

- Read S
- Assign
- Write
- Open a
- Op
- Read C
- Process
- Body

Questions?

