

Land Services Group Meeting Minutes
Tuesday, September 25, 2018
9:00 AM
Lincoln County Service Center-Room 255

Members:

<input type="checkbox"/> Dan Miller	<input checked="" type="checkbox"/> Norm Bushor	<input checked="" type="checkbox"/> Tony Dallman
<input checked="" type="checkbox"/> Paul Bernard	<input type="checkbox"/> Jeff Jaeger	<input checked="" type="checkbox"/> David Smith
<input checked="" type="checkbox"/> Mike Huth	<input checked="" type="checkbox"/> John Hanz	<input checked="" type="checkbox"/> Nancy Bergstrom
<input checked="" type="checkbox"/> Kevin Kleinschmidt	<input checked="" type="checkbox"/> Diana Petruzates	<input checked="" type="checkbox"/> Ellen Ronsman
<input checked="" type="checkbox"/> Sarah Koss	<input checked="" type="checkbox"/> Mitch McCarthy	<input type="checkbox"/> Chris Heller
<input type="checkbox"/> Jason Hake	<input checked="" type="checkbox"/> September Murphy	<input type="checkbox"/> Jackie Leonard
<input type="checkbox"/> Chris Marlowe	<input type="checkbox"/> Ken Maule	Jeffrey Suvada
<input checked="" type="checkbox"/> Matt Bremer	<input type="checkbox"/> Art Lersch	

1. Call meeting to order:

Matt Bremer called the meeting to order at 9:00 am

2. Approve Minutes of previous meeting:

Prior year and prior meeting minutes approved

3. Discussion and possible approval of REVISED 3-yr WLIP plan and application (2019-2021)

- Introduction to Norm to explain the updates on the revised program.
 - Hand out of revisions Project Plan for PLSS – discussion
- Conversion of old software to new. 5 day demo to run. Future data adjustment in 2022
- Project 2 – Scan and Index ROD Documents – discussion
 - Project 3 – Orthoimagery – discussion – scaled back to 6”, better budget position.
 - Project 4 – Web Server – Website upgrades- this would make web information available to cell phones/ tablets and laptops - discussion
 - Project 5 - RPL LTE Positon – Gaps, Overlaps, and ROW Research – discussion
 - Project 6- Web Development – Create Single Purpose Websites, for better public access to information- discussion
 - Project 7- ArcGIS Open Data – ArcGIS HUB – refer to handout, discussion.
 - Project 8- GIS LTE Position. ROW project, discussion.
 - Project 9- Historic Aerial Photo Ortho Rectification, discussion.

There was some additional discussion regarding RR deeds being located at the State and not here at ROD.

- Final page – budget information.

Discussion on having one more meeting before the end of the year or take this to the committee- October and the board for approval, November

Make a motion to approve the WLIP plan with amendments, September, 2nd / Diana

Motion to approve at Land Services Committee in October and the County board for November

4. Next meeting: TBA

5. Adjourn: The meeting was adjourned at 10:37 by Matt Bremer

JANUARY 2019 – PLSS CONTROL ACCURACY STATUS

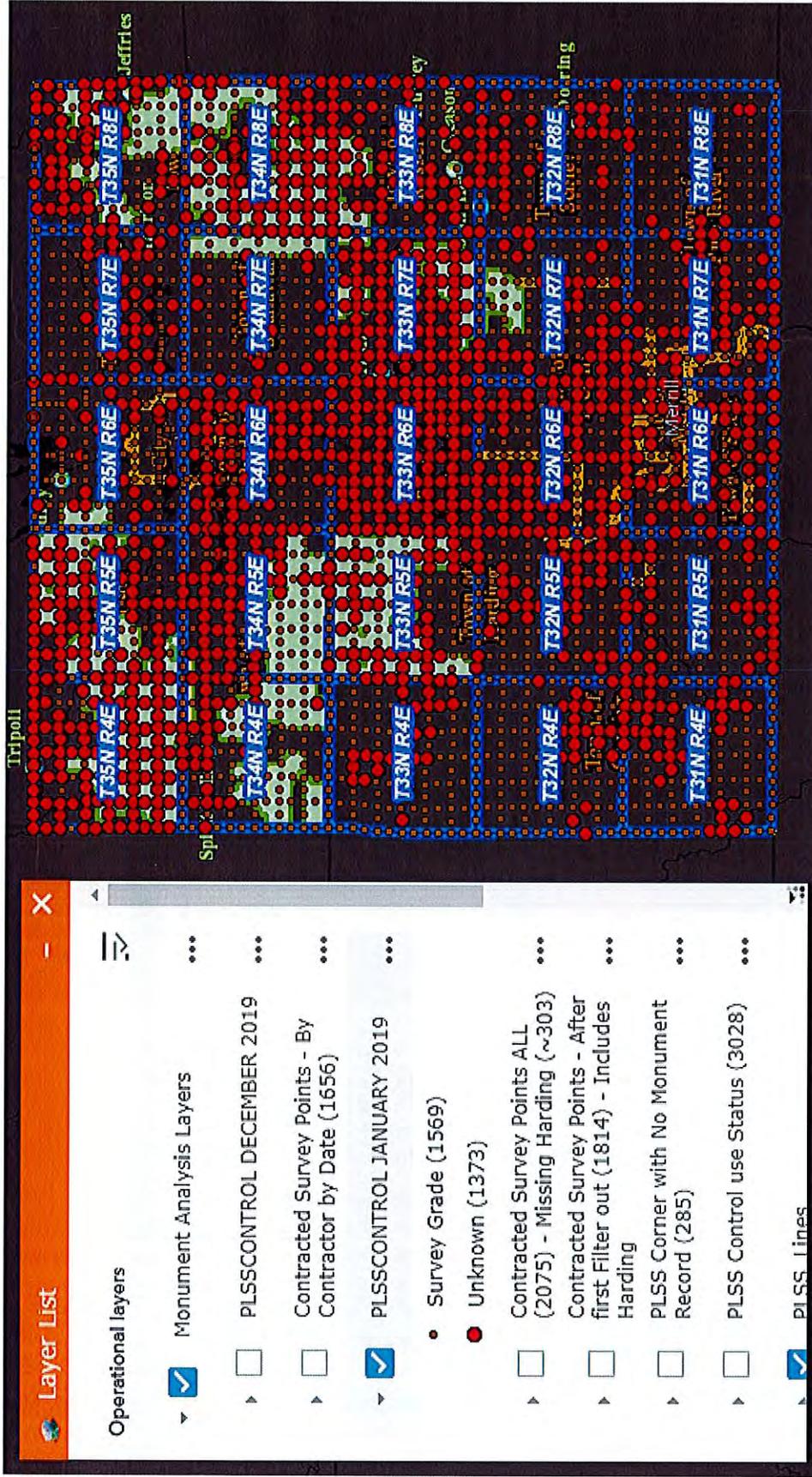




Figure 1. Summary of 2020 benchmarks. The Searchable Format for Benchmarks 1 & 2 and other data submission requirements are detailed in the Submission Documentation.

2020 Grant Eligibility Table

County	2019	2020	2021	2022	2023
Ashland	22,608	77,392	40,000	1,000	118,392
Barron	69,680	30,320	40,000	1,000	71,320
Bayfield	36,424	63,576	40,000	1,000	104,576
Brown	284,432	NA	40,000	1,000	41,000
Buffalo	22,664	77,336	40,000	1,000	118,336
Burnett	41,528	58,472	40,000	1,000	99,472
Calumet	62,496	37,504	40,000	1,000	78,504
Chippewa	82,096	17,904	40,000	1,000	58,904
Clark	41,144	58,856	40,000	1,000	99,856
Columbia	81,352	18,648	40,000	1,000	59,648
Crawford	22,576	77,424	40,000	1,000	118,424
Dane	625,296	NA	40,000	1,000	41,000
Dodge	96,952	3,048	40,000	1,000	44,048
Door	66,560	33,440	40,000	1,000	74,440
Douglas	54,656	45,344	40,000	1,000	86,344
Dunn	50,624	49,376	40,000	1,000	90,376
Eau Claire	113,272	NA	40,000	1,000	41,000
Florence	9,960	90,040	40,000	1,000	131,040
Fond du Lac	112,392	NA	40,000	1,000	41,000
Forest	19,128	80,872	40,000	1,000	121,872
Grant	58,968	41,032	40,000	1,000	82,032
Green	46,872	53,128	40,000	1,000	94,128
Green Lake	29,752	70,248	40,000	1,000	111,248
Iowa	35,512	64,488	40,000	1,000	105,488
Iron	14,736	85,264	40,000	1,000	126,264
Jackson	31,624	68,376	40,000	1,000	109,376
Jefferson	97,352	2,648	40,000	1,000	43,648
Juneau	41,752	58,248	40,000	1,000	99,248
Kenosha	178,408	NA	40,000	1,000	41,000
Kewaunee	26,312	73,688	40,000	1,000	114,688
La Crosse	126,288	NA	40,000	1,000	41,000
Lafayette	24,176	75,824	40,000	1,000	116,824
Langlade	31,944	68,056	40,000	1,000	109,056
Lincoln	46,400	53,600	40,000	1,000	94,600
Manitowoc	91,880	8,120	40,000	1,000	49,120
Marathon	167,920	NA	40,000	1,000	41,000
Marinette	77,512	22,488	40,000	1,000	63,488
Marquette	25,736	74,264	40,000	1,000	115,264
Menominee	3,168	96,832	40,000	1,000	137,832
Milwaukee	749,776	NA	40,000	1,000	41,000
Monroe	57,864	42,136	40,000	1,000	83,136
Oconto	68,928	31,072	40,000	1,000	72,072
Oneida	86,632	13,368	40,000	1,000	54,368
Outagamie	216,432	NA	40,000	1,000	41,000
Ozaukee	102,632	NA	40,000	1,000	41,000
Pepin	12,720	87,280	40,000	1,000	128,280
Pierce	49,984	50,016	40,000	1,000	91,016
Polk	79,144	20,856	40,000	1,000	61,856
Portage	80,608	19,392	40,000	1,000	60,392
Price	25,632	74,368	40,000	1,000	115,368
Racine	211,712	NA	40,000	1,000	41,000
Richland	22,264	77,736	40,000	1,000	118,736
Rock	190,568	NA	40,000	1,000	41,000
Rusk	26,760	73,240	40,000	1,000	114,240
Sauk	119,264	NA	40,000	1,000	41,000
Sawyer	43,624	56,376	40,000	1,000	97,376
Shawano	58,096	41,904	40,000	1,000	82,904
Sheboygan	127,192	NA	40,000	1,000	41,000
St. Croix	131,128	NA	40,000	1,000	41,000
Taylor	28,824	71,176	40,000	1,000	112,176
Trempealeau	36,280	63,720	40,000	1,000	104,720
Vernon	38,944	61,056	40,000	1,000	102,056
Vilas	63,032	36,968	40,000	1,000	77,968
Walworth	153,216	NA	40,000	1,000	41,000
Washburn	35,528	64,472	40,000	1,000	105,472
Washington	158,808	NA	40,000	1,000	41,000
Waukesha	461,160	NA	40,000	1,000	41,000
Waupaca	76,312	23,688	40,000	1,000	64,688
Waushara	42,568	57,432	40,000	1,000	98,432
Winnebago	185,032	NA	40,000	1,000	41,000
Wood	85,136	14,864	40,000	1,000	55,864
Total	6,948,168	2,766,760	2,880,000	72,000	5,718,760



2020 WLIP Training & Education Grant Application

County:

- 1. County submitted a 2019-2021 land information plan to DOA Yes No
- 2. Enter date of last county land information council meeting (dd/mm/yyyy) ►
- 3. LIO subscribed to the Land Information Officer's listserv Yes No
- 4. County's *Retained Fee/Grant Report* for 2018 submitted Yes No
- 5. Training & Education Award Eligible \$ 1,000.00
- 6. Training & Education Award Amount Requested
- 7. Brief Description of Intended Expenditures for Training & Education Grant

This funding will be used to purchase online training from ESRI and other sources. Funding may be used to attend special training opportunities such as EWUG. Funding may be used to becoming a member of the WLIP and may be used for Annual Conference meetings and workshops.

8. **Statement and Authorization of Land Information Officer**
As the Land Information Officer for the above county, I am authorized to submit this application, as an eligible applicant, on the authority of the county board. I understand that application authority shall be obtained by specific action of the county board, and that the WLIP may request evidence of such authority. Project work shall meet all standards and conditions as set forth by the relevant Wisconsin State Statutes, Wisconsin Administrative Code, and policy adopted by the Wisconsin Land Information Program or the Wisconsin Department of Administration. To the best of my knowledge, the information contained in this application is accurate and complete. I understand that Training & Education grant projects must be completed by December 31, 2021.

LIO Name (typed)

Date(dd/mm/yyyy)



2020 WLIP Strategic Initiative Grant Application

County: LINCOLN

- | | |
|--|---|
| 1. Strategic Initiative Award Eligible | \$ 40,000.00 |
| 2. Strategic Initiative Award Amount Requested | \$ 40,000.00 |

BENCHMARK 1 & BENCHMARK 2

3. The county must meet Benchmark 1 and Benchmark 2 for the V6 call for data by March 31, 2020 in the Searchable Format. Will the county use 2020 Strategic Initiative Funding to work toward the Searchable Format for V6 Benchmark 1 and 2 in the first quarter of 2020?

- Yes
 No

4. Will the county use 2020 Strategic Initiative Funding to work toward and/or maintain the Searchable Format for V7 or V8?

- Yes
 No

5. Benchmark 1 and 2 Land Information Plan Citations for *Project Plan to Achieve Searchable Format for Benchmarks 1 & 2* – Section and page numbers (If answered "No" to #3-4 above, skip down to #8 below.)

6. Benchmark 1 and 2 Project Activities ▼ Costs ▼

7. Benchmark 1 and 2 Total Costs ▶			0.00

8. Will county perform all of the data cleanup and standardization tasks described in the V5 *Observation Report* in order to meet the Searchable Format standard before submitting data for the V6 call for data by March 31, 2020?

- Yes ▶ Skip down to #10 below
 NA – Not applicable because no deficiencies identified in *Observation Report* ▶ Skip down to #10 below
 No

9. If you answered "No" to SI_#8 above, briefly describe how you will address the deficiencies identified in the V5 *Observation Report* in order to meet the Searchable Format standard, explain why the deficiencies cannot be rectified by the V6 call for data, and how they will be addressed:

BENCHMARK 3

10. Is your county's digital parcel fabric complete (including incorporated areas)?

Yes, parcel fabric complete

No, county needs to work toward Benchmark 3 ▶ Estimated year of completion ▶

11. Will county use 2020 Strategic Initiative funding to work toward Benchmark 3 (Completion of County Parcel Fabric)?

Yes

No ▶ Skip down to #15 below

12. Benchmark 3 Land Information Plan Citations for *Project Plan for Parcel Completion* – Section and page numbers

--

13. **Benchmark 3 Project Activities** ▼

Costs ▼

14. Benchmark 3 Total Costs ▶			0.00

BENCHMARK 4

15. Is your county's PLSS framework complete and integrated into digital parcel layer?

Yes, PLSS network complete and integrated

No, county needs to work toward Benchmark 4 ▶ Estimated year of completion ▶

16. Benchmark 4 waiver request – Check the waiver box below if you wish to request a waiver from Benchmark 4 in favor of LiDAR and/or Aerial Imagery costs

No / Not Applicable

Yes, waiver requested in favor of **LiDAR** project ▶ Fill out *2020 WLIP Grant Application Addendum*

Yes, waiver requested in favor of **Imagery** project ▶ Fill out *2020 WLIP Grant Application Addendum*

17. Will county use 2020 Strategic Initiative funding to work toward Benchmark 4 (Completion and Integration of PLSS)?

Yes

No ▶ Skip down to #21 below

18. Benchmark 4 Land Information Plan Citations for *Project Plan for PLSS* – Section and page numbers

Page 38, Project #1 - Plan for PLSS Page 40, Project #3 - RPL LTE Postion
--

19. **Benchmark 4 Project Activities** ▼

Costs ▼

Parcel map integration with PLSS Control	19,980.00		
Research and update parcel legal descriptions, Plat of Surveys, CSMs, FCL and MFL documents	19,980.00		
LIO- SALARY- Assistance in project administration	40.00		
20. Benchmark 4 Total Costs ▶			40,000.00

OTHER COUNTY-LEVEL STRATEGIC INITIATIVE PROJECTS

21. County anticipates meeting Benchmarks 1-4 (or 1-3 with LiDAR/aerial imagery waiver) **and** foresees having some of the 40k Strategic Initiative funding "leftover"?

- Yes
- No

22. Estimated amount of 40k to be left after applying any costs to achieve Benchmarks 1-4 (or 1-3 for LiDAR/aerial imagery waiver counties)

- Zero
- More than zero ▶ Specify amount ▶ \$

If "More than zero" is selected, use the 2020 WLIP Grant Application Addendum to describe the projects you will use the Strategic Initiative funding for.

23. TOTAL ALL STRATEGIC INITIATIVE PROJECTS (should equal ≤ \$40,000.00) ▶ \$

24. Statement and Authorization of Land Information Officer

As the Land Information Officer for the above county, I am authorized to submit this application, as an eligible applicant, on the authority of the county board. I understand that application authority shall be obtained by specific action of the county board, and that the WLIP may request evidence of such authority. Project work shall meet all standards and conditions as set forth by the relevant Wisconsin State Statutes, Wisconsin Administrative Code, and policy adopted by the Wisconsin Land Information Program or the Wisconsin Department of Administration. To the best of my knowledge, the information contained in this application is accurate and complete. I understand that Strategic Initiative grant projects must be completed by December 31, 2021.

LIO Name (typed)

Date (dd/mm/yyyy)



2020 WLIP Base Budget Grant Application

County:

- 1. Base Budget Award Eligible (from grant eligibility table on page 8) \$
- 2. Base Budget Award Amount Requested \$

3. **Base Budget Grant Project Title 1**

4. Land Information Spending Category:

5. Land Information Plan Citations – Section and page numbers

6. Project Activities ▼		Costs ▼	
LIO-SALARY-Addressing administration	15,000.00	LIO-SALARY Webserver administration	4,000.00
LIO-SALARY-LTE Project Management	3,000.00	LIO - SALARY-Dispatch/EMS/Responders Mapping, NG911 Addressing	4,000.00
LIO-SALARY-Python Scripting	4,000.00	LIO-SALARY -ROD Project administration	2,000.00
LIO-SALARY-WLIP Administration	2,500.00	LIO-SALARY-GIS Web Sites development and maintenance	6,000.00
LIO-SALARY - Staff training and administration	3,000.00		
LIO-SALARY - Desktop software administration	1,500.00		
7. Base Budget Project 1 Total ▶			45,000.00

8. **Base Budget Grant Project Title 2**

9. Land Information Spending Category:

10. Land Information Plan Citations – Section and page numbers

11. Project Activities ▼		Costs ▼	
Verify and update existing scans in ROD system	8,600.00		
12. Base Budget Project 2 Total ▶			8,600.00

13. Base Budget Grant Project Title 3

--

14. Land Information Spending Category: Click arrow at right to select from drop-down list

15. Land Information Plan Citations – Section and page numbers

--

16. Project Activities ▼

Costs ▼

17. Base Budget Project 3 Total ▶			0.00

18. Base Budget Grant Project Title 4

--

19. Land Information Spending Category: Click arrow at right to select from drop-down list

20. Land Information Plan Citations – Section and page numbers

--

21. Project Activities ▼

Costs ▼

22. Base Budget Project 4 Total ▶			0.00

23. TOTAL ALL BASE BUDGET PROJECT COSTS (not to exceed BB_#1) ▶

\$ 53,600.00

24. Statement and Authorization of Land Information Officer

As the Land Information Officer for the above county, I am authorized to submit this application, as an eligible applicant, on the authority of the county board. I understand that application authority shall be obtained by specific action of the county board, and that the WLIP may request evidence of such authority. Project work shall meet all standards and conditions as set forth by the relevant Wisconsin State Statutes, Wisconsin Administrative Code, and policy adopted by the Wisconsin Land Information Program or the Wisconsin Department of Administration. To the best of my knowledge, the information contained in this application is accurate and complete. I understand that Base Budget grant projects must be completed by December 31, 2021.

LIO Name (typed) NORMAN BUSHOR

Date (dd/mm/yyyy) 11/26/2019

LSG Report – 12-4-2019

1. Review of 2019 Grant Projects

a. PLSS Updates – Norm/Tony

b. ROD – Project update

- i. Coding update and consolidation
- ii. Standards/Specifications
- iii. RFP

c. RPL - LTE Position Work Projects

- i. Real Estate Tax Roll Data entailed a review of all parcel accounts for Lincoln county to make edits and corrections (aka grammar check) mailing addresses and ownership data that was displayed with errors due mostly to the limitations of the previous data management system. After review of 30,722 parcel accounts, 9,569 parcel accounts have had edits made to the information it contains during this project work. 72 unresolved issues have been identified.
- ii. Personal property data review, which included an editing process similar to the real estate tax roll data review, identified inconsistencies of the data found in Land Record accounts (i.e. display format for account numbers and mailing addresses). A review of 1,150 personal property accounts was completed.
- iii. MFL and FCL review involved updating parcel accounts to include applicable MFL orders. Also, researching and adding the respective MFL documentation(s). According to the 2019 Lincoln county master listing, 164,648.543 acres are designated as MFL or FCL throughout all towns and cities. Many unresolved issues have been identified.
- iv. Plat of Survey Transcendent cleanup was a review of all parcel descriptions that contain language regarding unrecorded plat of survey references and also to documenting the map number. Out of 2,731 parcel descriptions reviewed, 2,026 of them were edited to remove the language or have suggestions for review and editing.
- v. CSM Transcendent parcel description cleanup is a review of all parcel descriptions that contain language regarding CSM references. This involved editing applicable parcel descriptions to a standard format. This work is also to ensure all CSM documentation is uploaded to parcel account. 4,746 parcel descriptions reviewed.
- vi. Data review and clean up for errors generated when submitting to State WLIP program.
- vii. Confirmed PINs surrounding Lake Alice for the Lake Alice lake association.
- viii. Organized spreadsheet to display tax delinquent properties.
- ix. Corrected land ownership for multiple land records – Paper work from Ellen's requests for correction are located in RPL-LTE Office.
- x. Updated or created new forms (i.e. ROD correction, Combine/split form/Addressing Application form, Many Tracking Spreadsheets)

- xi. Deleted unnecessary blank spaces in the ownership box of personal property account to cleanup semicolons that were showing up on the web client
- xii. Review of Legal(s) on Transfer documents
- xiii. Trained and entered Transfer documents for State

d. GIS – LTE Position Work Projects

- i. Conversion of all Arcmap Mapping Project Documents to ArcGIS Pro the new ESRI software platform
 - 1. Forestry, Rural Roads, Dispatch/ESN Boundary maps, Zoning, Shoreland Zoning, Land Use, Polling Locations, Supervisory Districts, Custom Map Printouts
 - 2. Rural Road names verification between:
 - a. USPS, Road Aids/Gas Tax maps, actual sign names in the field when known, and MSAG.
 - b. Updated ArcMap Geodatabase annotation layers ~50
 - c. Migrated ArcMap Geodatabase annotation to ArcGIS Pro Annotation
 - 3. 2019 Plat Book review for road name updates on plat book pages and in index located in the back of the book.
 - 4. ROW Project
 - a. Scrubbed Index Document (.xls), Geodatabase, TIFF (~4000 single-page), and PDF (~470 multi-page) deliveries data from GTG
 - i. Found and eliminated errors such as duplicates
 - ii. Indexed files to the Municipal Town level
 - iii. Created consistent project names across all scans
 - iv. Updated data for split ROW project files when multiple TIFF/PDFs were needed.
 - b. Went through file cabinets in Land Services Office not included in contracted conversion project by GTG ~1600 Pages
 - i. Reviewed, scanned, indexed, georeferenced each page in plat documents
 - c. Contacted visited all Municipal Towns to review file cabinets, boxes, etc.. to find additional ROW information that could be added – Only 2 Towns without information to contribute.
 - i. Reviewed, scanned, indexed, georeferenced documents
 - d. Converted entire ROW database to smart indexing system and integrated into GIS
 - e. Organized filing structure on server to eliminate redundancy and extra storage space on County Server's
 - f. Helped create and verify ROW Plat Finder webpage
 - g. <https://maps.co.lincoln.wi.us/webapps/ROWFinder/>

- h. Created scanning and printing documentation for use by all departments for interfacing with new large format plotter/scanner.
 - 5. Custom Map production for Towns, Public and other entities
 - 6. Rural Addressing updates and help
 - 7. Metadata updates to Geodatabase layers and Web Metadata document
 - 8. Phones front office work
 - e. **Web Server Upgrade, Migration (In progress), and new websites creation**
 - i. ROW Plat finder site
 - 1. <https://maps.co.lincoln.wi.us/webapps/ROWFinder/>
 - ii. Dispatch site
 - 1. <https://maps.co.lincoln.wi.us/webapps/Dispatch/>
 - iii. Preliminary Land Information/GIS Viewer Site
 - 1. <https://maps.co.lincoln.wi.us/webapps/mobile/>
 - iv. PLSS Tracking site
 - 1. <https://maps.co.lincoln.wi.us/webapps/PLSSMONUMENT/>
 - v. RPL PIN finder site
 - 1. <https://maps.co.lincoln.wi.us/webapps/PinHelper/>
 - vi. Sexually Violent Persons locating site
 - 1. <https://maps.co.lincoln.wi.us/webapps/SVP2/>
 - vii. Emergency Management site
 - 1. <http://lincolncowi.maps.arcgis.com/apps/webappviewer/index.html?id=069bb064fcfd4655a0dc434caf9ca8e5>
 - viii. Internally Drained Areas
 - 1. <http://lincolncowi.maps.arcgis.com/apps/webappviewer/index.html?id=8a5f9837286f49baa2c0f310f394982e>
 - f. **Conversion/Integration and mapping of Zoning, Land Use, ESN boundary Layers**
2. **2020 Strategic Grant Application Projects (hand out)**
 - a. **Foundational Elements – Required for Strategic grant funds**
 - i. Geographic Positioning Reference Frameworks
 - ii. Orthoimagery
 - iii. Elevation and Topographic Data
 - iv. Parcel Data
 - v. Parcel Administration and Assessment Data
 - vi. Street/Road Centerlines, Address Ranges and Address Points
 - vii. Hydrography, Hydrology and Wetlands Data
 - viii. Soils, Land Cover, and other Natural Resource Data
 - ix. Land Use Data
 - x. Zoning Data
 - xi. Election and Administrative Boundary Data
 - xii. Critical Infrastructure and Facilities Data
 - b. **GIS – LTE 1200 hours @ \$15/hr plus Medicare and Social Security (\$19,980)**
 - i. Parcel Mapping/Re-Parcel Mapping
 - ii. Metadata documentation

1. ROW, Dispatch, Land Records GIS Viewer
 2. Other Foundational Element help as needed
- c. RPL LTE 1200 hours @ \$15/hr plus Medicare and Social Security (\$19,980)**
 - i. Transcendent DB Updates
 1. FCL/MFL
 2. Plat of Survey
 3. Final data clean up
- 3. WLIP grant/retained fees (Projects)**
 - a. Land Information Program Manager Salary (Grant 2020) \$45,000
 - b. ROD Project (Grant 2020) \$8,600
 - c. ESRI software costs – (Retained Fees) \$15,450
 - d. Orthophoto 2020 project (Retained Fees) - \$72,480



Wisconsin Land Information Program County Retained Fee/Grant Report

Instructions:

If your county has accepted a grant under s. 16.967(7) WIS STATS or retained any fees under s.59.72 (5) WIS STATS, submission of this report to the Wisconsin Department of Administration, Division of Intergovernmental Relations is required by June 30th of the following year in accordance with s. 59.72(2)(b) WIS STATS.

County Lincoln	County FIPS 069	Recording Period:		
		From	Jan. 1, 2018	To
			Dec. 31, 2018	
Name of Land Information Officer Norm Bushor		Email Address nbushor@co.lincoln.wi.us		Phone Number 715-539-1049

1. Amount awarded in WLIP grants under s. 16.967(7) Wis. Stats. in the reporting period (Jan. 1 – Dec. 31, 2018)	\$ 103,944.00
2. Amount of document recording fees retained under s. 59.72(5) Wis. Stats. for land information in the reporting period at \$8 per document (Jan. 1 – Dec. 31, 2018)	\$ 51,424.00
3. Total amount of grants and retained fees provided through the WLIP in 2018	\$ 155,368.00

Brief narrative or bulleted summary of 2018 land information activities, including relevant web-links:

- PLSS spreadsheet creation and analysis of 20 years of contracted data and in house data capture/maintenance
- PLSS data analysis of contracted data coordinates and in house data inventory
- LTE overview for PLSS in house cleanup of tie sheets and conversion to WI Point ID and updates to County maintained ID system, digital and hardcopy review
- SDE Database redesigns and workflow updates and documentation for PLSS Corners, Lines, Polygons maintenance
- PLSS monument finder services publication and website creation to help support corner updates for County Surveyor
<https://maps.co.lincoln.wi.us/webapps/PLSSMonument>
-
- SDE Database redesigns and workflow updates for Wards, Supervisory districts and Municipal Boundaries
- Zoning Division - SDE Database redesigns and workflow updates for Zoning
- Zoning Division - SDE Database redesigns and workflow updates for Existing Land Use
- SQL code development and views for generation of Tax roll nightly updates
- SQL code development and views for V5 data submissions
- Update Python Publication Scripting for Tax Roll Information from SQL Server views/tables
- WLIP V5 data submission – Parcels, PLSS, Zoning, Land Use, Roads, Address Points, Hydrography, Buildings, Parks, Trails
- LSTB data submissions for Wards, Supervisory Districts, Municipal boundaries and School district boundaries
- Land Conservation Division - HUC regions creation and analysis
- Land Conservation Division – Non Metallic mining updates, layers creation and publication, data creation for accounting
- Land Conservation Division – Internally drained areas data creation from LiDAR and Contour information
- Land Conservation Division – Internally drained areas Website services publication and website creation
<http://lincolncowi.maps.arcgis.com/apps/webappviewer/index.html?id=8a5f9837286f49baa2c0f310f394982e>
- Emergency Management – Layers creation, services creation and website creation
<http://lincolncowi.maps.arcgis.com/apps/webappviewer/index.html?id=069bb064cfd4655a0dc434caf9ca8e5>
- Updates and testing for Mobile Public Access Application <http://maps.co.lincoln.wi.us/webapps/mobile/>
- RPL website creation for Tax PIN generation/creation and viewing historic date creation of when Land Description for a parcel was created
<https://maps.co.lincoln.wi.us/webapps/PinHelper/>
- Address Permitting/capture/database administration

Brief narrative or bulleted summary of 2018 land information activities, including relevant web-links:

- E911 Address updates to dispatch
- Forestry Department Geodatabase Migration
- Machine upgrades and configuration for Land Services, County Surveyor, County Conservationist, and County Forestry Staff. ArcGIS Desktop, ArcGIS Pro and ArcGIS Server software upgrades for all machines.
- ESRI Software Maintenance
- Land Records software review
- Land Records software selection
- Land Records data migration and support for new Land Records software
- Land Records data analysis once migrated and problem solving
- ROW Contracted project administration and data acceptance
- ROW LTE hire and internal project setup
- Ayres hydrography conflation to parcel mapping/parcel boundaries
- LTE workflow development for Ayres Hydrography clean up
- LTE overview and workflow setup for conflation of WDNR names and missing intermittent stream data to Ayres Hydrography
- Tax Delinquent parcels research, analysis, and services creation/publication and websites development.
<http://maps.co.lincoln.wi.us/webapps/TaxDel/>
- Standard work detail for Addressing such as new address points, range data corrections, road names corrections, retiring addresses, E911 MSAG correspondence, and maintenance of many layers that support dispatching functions
- Standard work detail for staff training
- ESRI ArcGIS Enterprise training and Server migration planning

**Wisconsin Land Information Program
County Retained Fee/Grant Report – Continued**

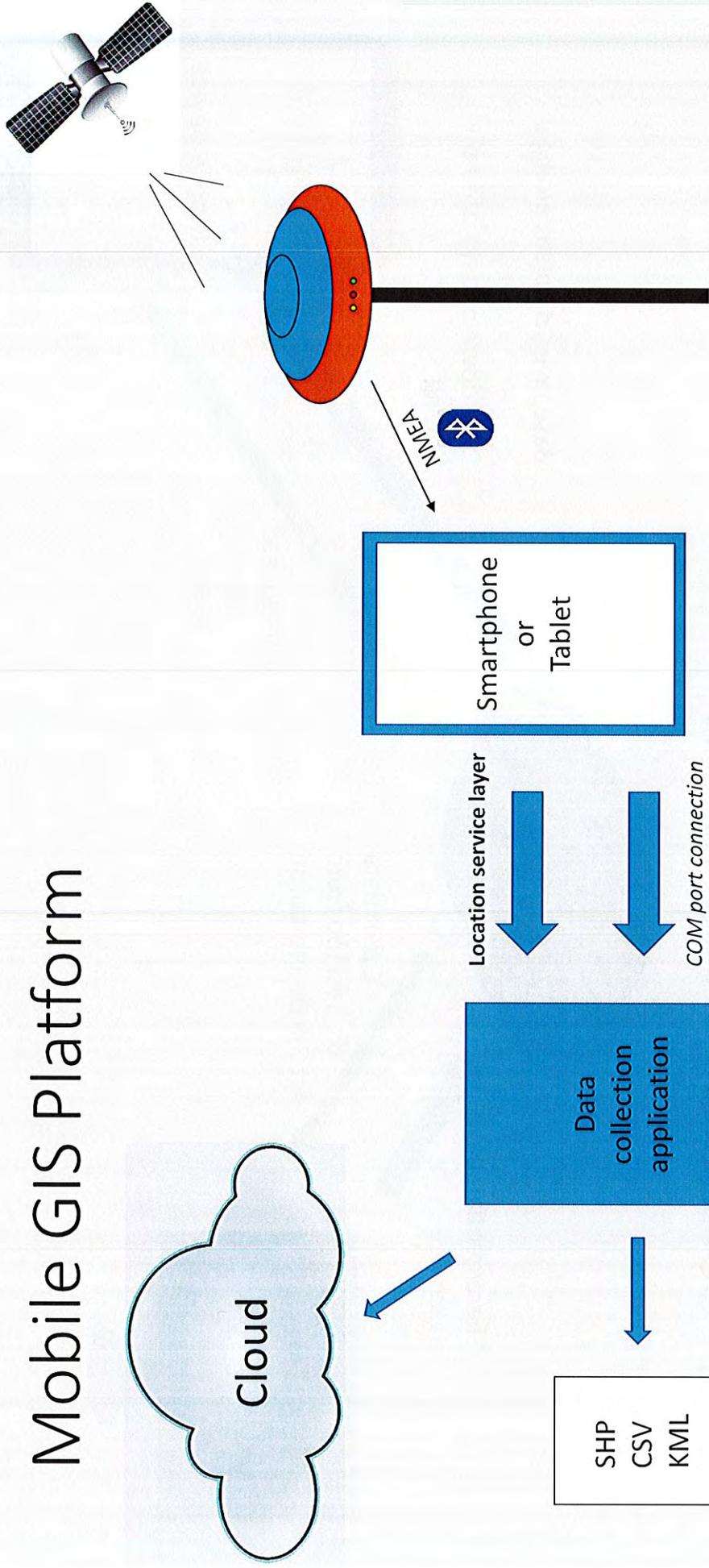
Land Info Spending Category ▼	Project Title(s) Expand the height of rows if you have multiple projects in a spending category. Row height will automatically expand as you type. Do not delete rows. Add rows only for "Other."	Land Info Plan Citations Page number or section reference	Project Cost Note unit cost and project total for each project	Total Cost for Spending Category (ONE total per Spending Category)
Digital Parcel Mapping				0.00
PLSS	PLSS Database creation, PLSS project overview and data creation. Reconciliation between hard copy record volumes and online scans. WI Point ID/Local Point code reconciliation and Local Point problem/error fixes. Corner point position comparison between values maintained by County Surveyor in AutoCAD, contracted GPS values and GIS Parcel mapping/PLSS corner Values. Workflow creation and documentation for corner point updates for County Surveyor and GIS Specialist.	Page 44, Ongoing costs	LIO - 201 hours @ 37.33/hr- 7,503 LTE – 800 hours @ 15/hr – 12,000	19,503
Other Parcel Work (e.g., ROD indexing)	ROW RFP creation, review, and acceptance. ROW scanning, geo-rectification, indexing. Hydrography spatial updates and name cross mapping/conflation from WDNR to create a County version of Hydrography to integrate into county wide parcel maps. Street Centerline re-alignment.	Page 39 Project 7 Page 44, Ongoing costs	LIO - 67 hours @ 37.33/hr- 2,501 Contracted Services with Geographic Data Technologies (GDT) for initial data inventory, scanning and geo-registration -17,250 LTE – 320 hours @ 15/hr –4,800	24,551
LIDAR				0.00
Orthoimagery	Historic orthophoto rectification	Page 44, Project 11	Contract with Ayres Associates - 13,500	13,500
Address Points	Addressing updates, Addressing problem resolution, Re-Addressing	Page 44, Ongoing costs	LIO - 190 hours @ 37.33/hr – 7,093	7,093
Street Centerlines	Street Centerline Range updates	Page 44, Ongoing costs	LIO - 54 hours @ 37.33/hr- 2,016	2,016
Software	SDE data re-design, Python publication scripts re-design and SQL Scripts creation for conversion. ArcGIS Server/Desktop/ArcGIS Pro upgrades and machine configuration updates for Land Services/Conservation/Forestry ESRI software maintenance	Page 44, Ongoing costs	LIO - 100 hours @ 37.33/hr – 3,733 ESRI software Maintenance – 15,450	19,183
Hardware				0.00

Website Development/ Hosting Services	Sexually violent predator placement website creation. RPL custom website development for Parcel Identification number tracking and historic representation of legal description creation.	Page 37 Project 4	LIO – 65.5 hours @ 37.33/hr – 2,445	2,445
Administrative Activities and Management	WLIP Projects management, WLIP program administration, 3 year WLIP Plan creation/writing	Page 44, Ongoing costs	LIO - 80 hours @ 37.33/hr – 2,986	2,986
Training and Education				0.00
Other (specify in second column)				0.00
TOTAL				\$ 91,277.00
Amount of retained fees and grants spent on land records modernization in the reporting period Total may be more or less than the amount of grants awarded and fees retained in 2018 (if carried over from year to year)				
Amount of retained fees and grants carried forward to calendar year 2019 from previous years				\$ 442,305.00

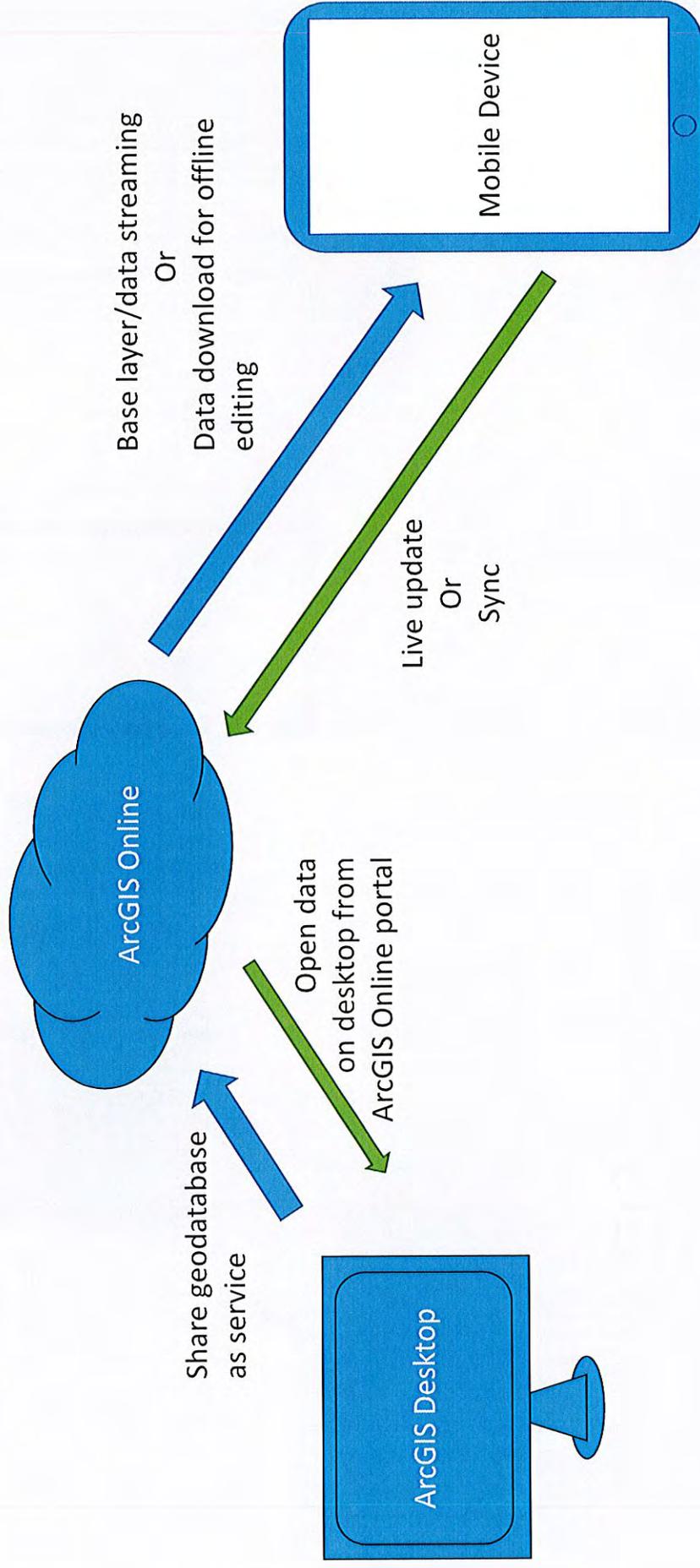
After this presentation you should be able to...

- Sign up for a 60 day trial
- Create and share a map to ArcGIS online from ArcGIS Desktop
 - Or Add data layers from shapefiles, csv files, etc from ArcGIS Online
- Finalize a map to share to mobile device
- Setup Collector for external GPS data collection
 - Android and iOS
- Download a map for offline data collection
- Collect a feature and sync it with ArcGIS Online
- *Create a web app to display live changes to data sets*

Mobile GIS Platform



ESRI Collector - Workflow



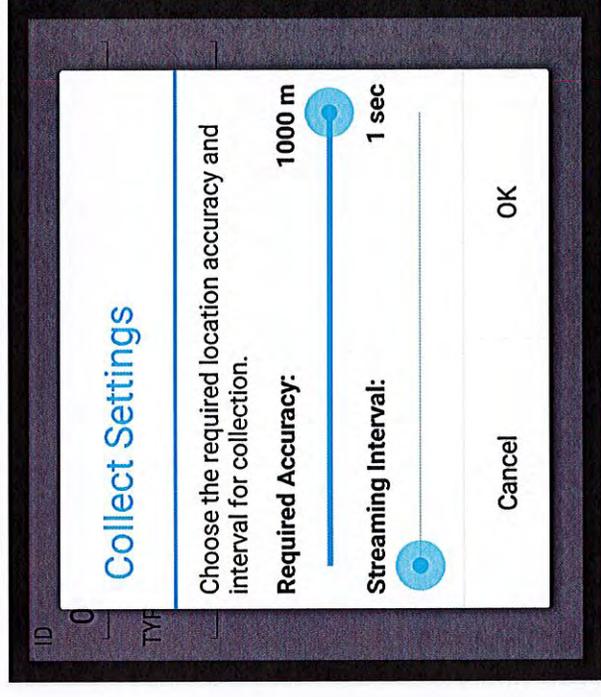
Creating a Map to Share to ArcGIS Online

- Add data layers to ArcGIS Desktop
- Sign in to your ArcGIS online account within ArcGIS
- Share map as “Service”
- Go to ArcGIS online and create a new map
- Add “shared” layers to new ArcGIS online map
- Format as you like
- Save and share map with your organization
- Open map in Collector

External GPS Device Setup

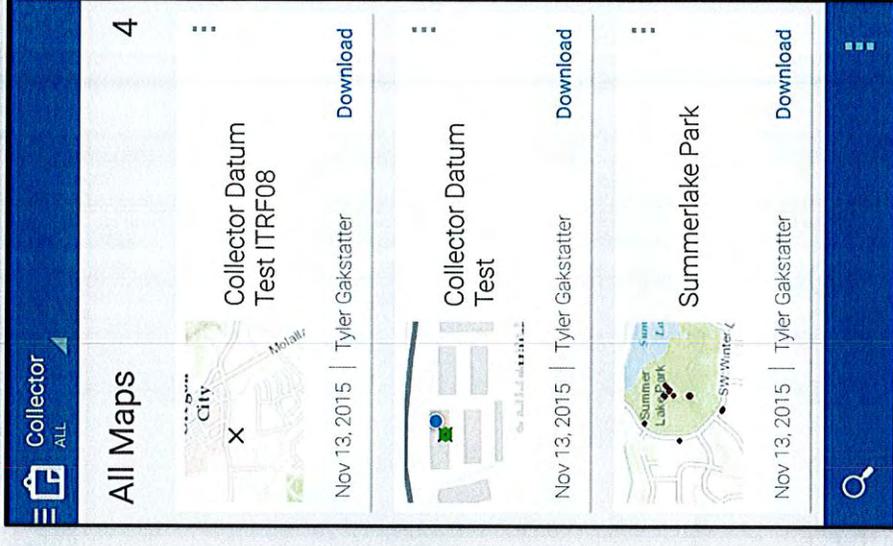
- Example devices
 - Internal GPS
 - Trimble R1
 - Geneq SXBlue
 - EOS Arrow
 - Bad Elf
 - CHC X900/91

- Set accuracy requirement to the 1000m for iOS
- Android requires third party Bluetooth GPS application

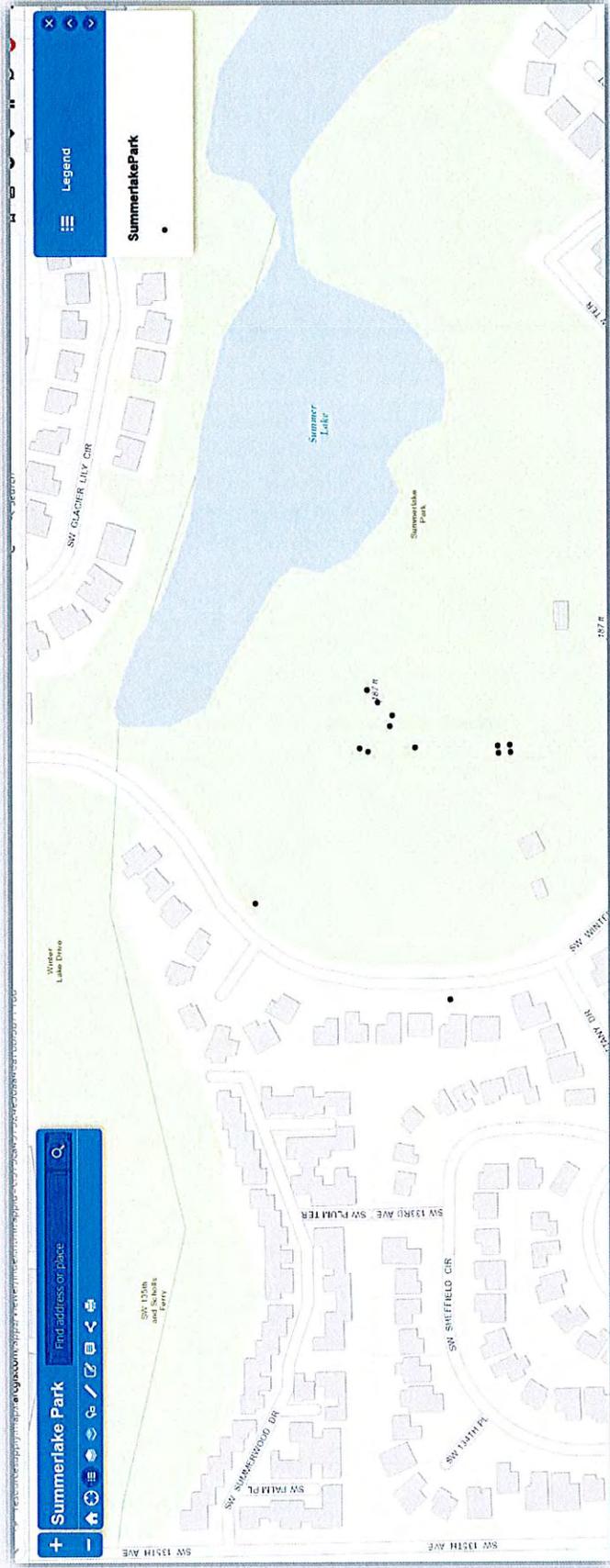


Collecting a new feature in the field

- Connect GPS device
- Open Collector
- Select map
- Click on “+” to collect a feature
- Enter attribute data
- Verify position
- Click “Done”.



Creating a Map Application - ArcGIS Online



Collector Tips

- If you want drop down menus you need to setup a geodatabase with domains
- When searching for layer in ArcGIS online uncheck “within map area” to see all of your layers
- Add extra fields to shapefile for attribute data collection

Benefits

- Connected to ArcGIS Online. If using a web app the data is shown as soon as the new feature is synced to ArcGIS online.
- Online & Offline Data Collection
- ESRI Basemaps available and easily added to any map
- Collector app is very user friendly.
- Has some basic GIS functionality but can be used by non-GIS Professionals

Try ArcGIS for Free – 60 day trial

The screenshot shows the ArcGIS website's trial sign-up page. The browser's address bar displays the URL <https://www.arcgis.com/features/free-trial.html>. The navigation menu includes 'My Map', 'Features', 'Plans', 'Gallery', 'Map', 'Scene', and 'Help'. The main content area is titled 'Sign Up for the ArcGIS Trial' and contains the following sections:

- What do I get with my ArcGIS 60-day free trial?**
 - ✓ Access for up to 5 named users.
 - ✓ A suite of ready-to-use apps that run on browsers, desktops, and mobile devices.
 - ✓ A Living Atlas of the World with maps and data, including access to foundation content from Esri, on thousands of topics.
 - ✓ A 60-day trial of ArcGIS for Desktop, which includes ArcGIS Pro, for up to 5 named users.
 - ✓ 200 ArcGIS Online service credits that can be used for data storage, premium data access or performing geocoding and analysis.
 - ✓ Access to ArcGIS for Developers. Development only plans are also available.
 - ✓ Access to free trials of third-party apps and data, available from the ArcGIS Marketplace.
- What happens at the end of the trial?**

Once you purchase an ArcGIS Online annual subscription at the end of your trial, all the work you've done during the trial becomes part of your purchased subscription. You won't lose anything you have built!

Please note: Trial subscriptions from multiple individuals within an organization and the content they create during the trial cannot be merged into a single organizational subscription.
- Sign Up for the ArcGIS Trial**
 - First Name
 - Last Name
 - Email Address
 - Confirm Email Address
 - Select an industry ---
We will send you details on how to finalize your account.
 - START TRIAL**

Tyler Gakstatter

ResourceSupplyLLC.com

Product review & How to videos - RuggedReady.com

Tyler@ResourceSupplyLLC.com

