GIS Working Group



Realizing Efficiencies with GIS in Assessment work!

Agenda

Who is on the Committee

What is the GIS Working Group all about?



What projects and opportunities are we currently working on



GIS Demo



Projects on the horizon

Presenters:

Cheri Marchuk, Rural Coordinator Technical Standards & Policy

Evan Brandt, GIS Specialist Information Services

Matthew Holmes, GIS Research Officer Technical Standards & Policy

What is GIS

Geographic Information System

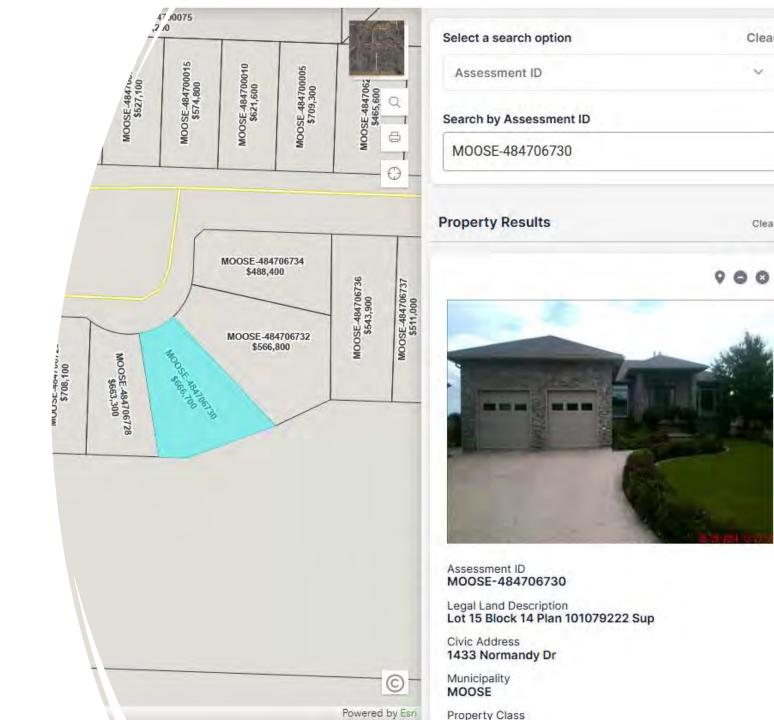
"A computer system that captures, stores, analyzes, and displays **geographically referenced information**."

- Associates Information with places
- Examples:

SAMAView

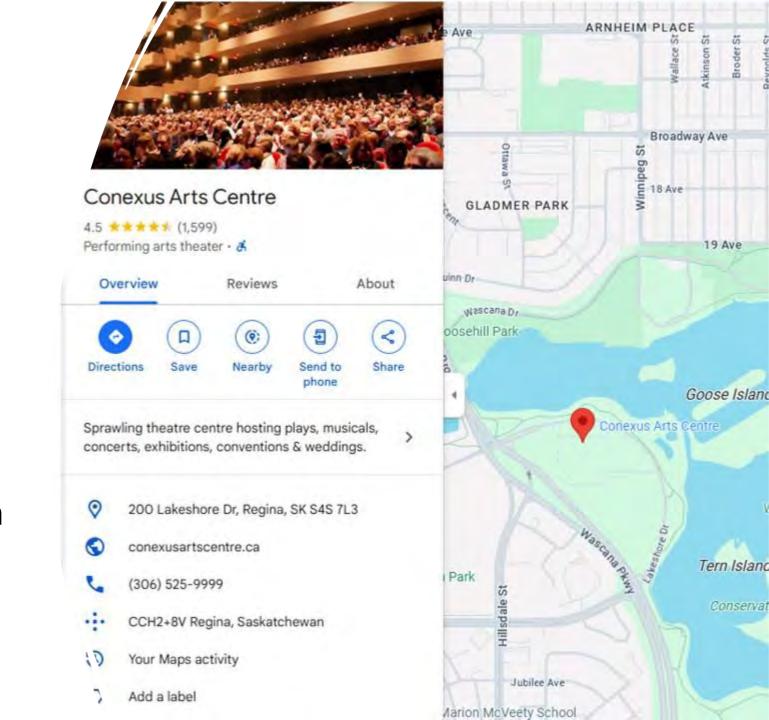
- SAMAView is a GIS
- Information about a Place

 * Just released a new map version April 1st



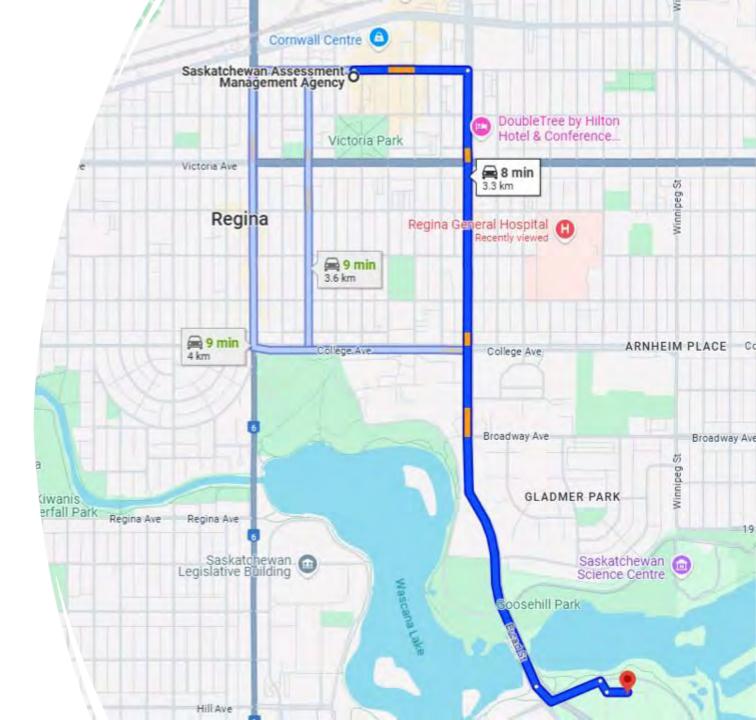
Google Maps

- Google Maps is a GIS
- Information about a Place
- Google Maps a very advanced GIS Application



GIS Analysis

- Have you ever found directions from google maps?
- This is a form of GIS analysis
- Utilizes spatial characteristics to provide answers
- Accounts for:
 - Road length
 - Rules of travel
 - Traffic
 - Etc.



What is The GIS Working Group?

- Working groups relax hierarchy to allow people to solve problems across organizational units
- Freedom to collaborate
- Play into strengths
- Identify the ways GIS can create value for the agency and its stakeholders

ArcGIS Enterprise **Department Roles**

Technical Standards & Policy Dept.

- Research new solutions
- Provide usage expertise
- · Training users and content creators
- · Collaboratively design Content
- knowledge sharing

Assessment

Services Dept.

Test solutions

End users

· Identify design requirements

· Provide usage feedback

GISWG

- Ensure quality Ensure agency
- needs are met Ensure direction
- Content sharing permissions

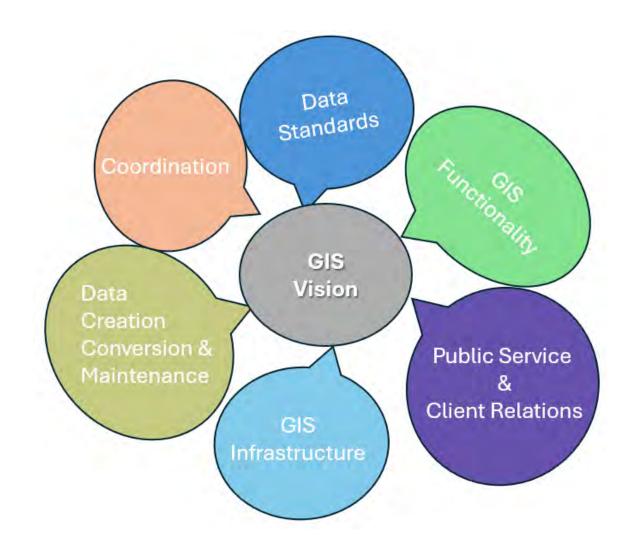
- Establish Content standards
- · Provide design expertise

Information Services Dept.

- Technology best practices
- · Technical support
- Advanced content development
- · Maintain and expand enterprise infrastructure (supporting layers
- · and data)

Implementation of SAMA's GIS Vision

- Goal #1- Build and Maintain Reliable GIS Data
- Goal #2- Make GIS Data Accessible
- Goal #3- Integrate GIS Functionality with Existing Systems
- Goal #4- Train, Educate and Inform Staff
- Goal #5- Implement and Optimize GIS
 Governance Model
- Goal #6- Expand and Maintain Enterprise Infrastructure



GIS for Assessment

Parcel Management

Field Operations

Valuation Analysis

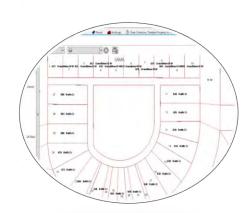
Public Relations

Quality control

Parcel Editing

Map production

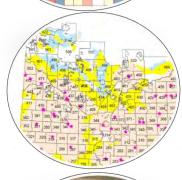
Address Management





Cama visualization

Spatial analysis



SAMAVIEW

Mobile Access to view and Edit

Analyticsremote sensing

Integrated GIS
Analysis
Through portal
APPS



GIS Success Stories









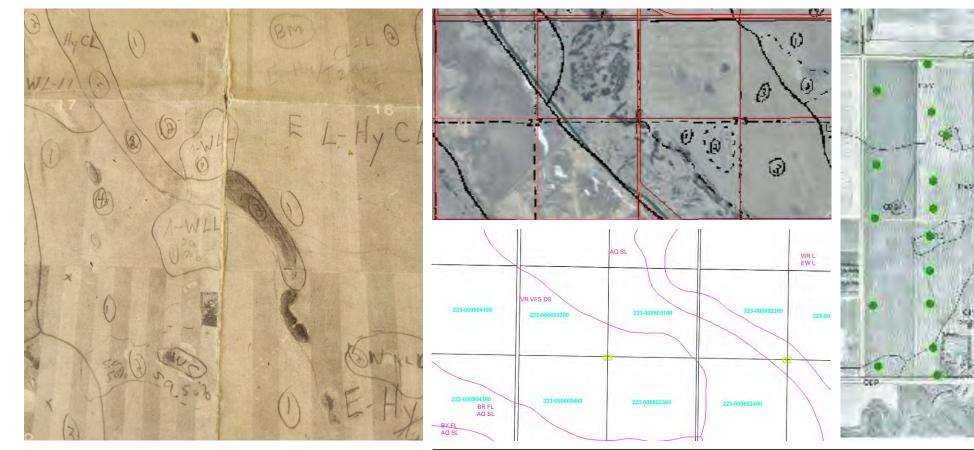




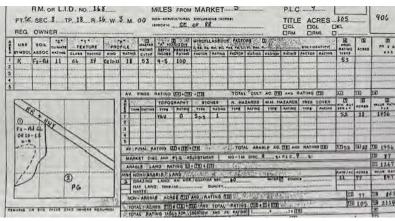


Don't confuse activity with accomplishment.

HAVE A PLAN FOR SUCCESS!

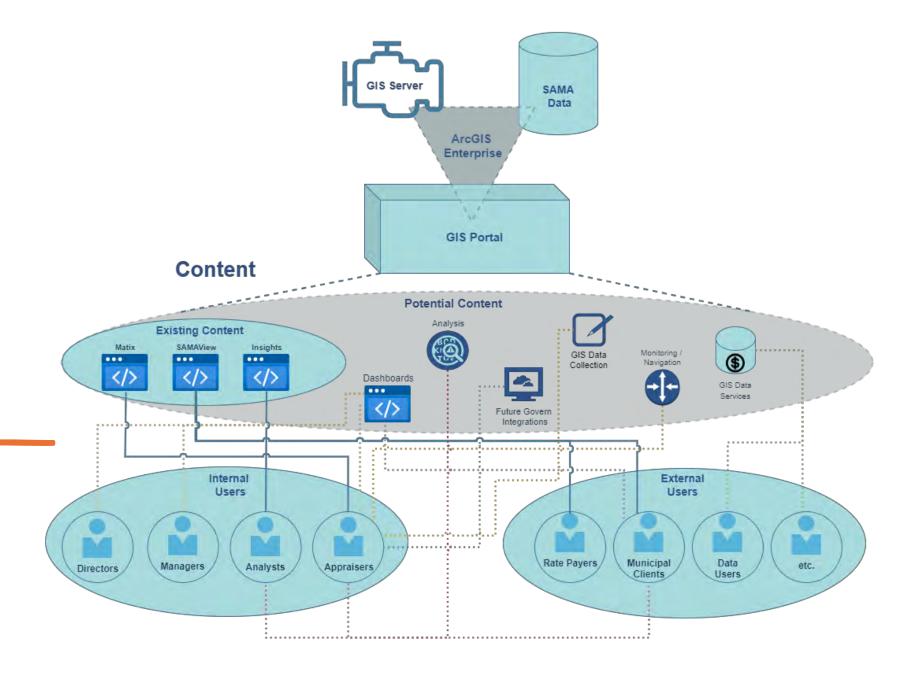






Mylars- Paper to Digital Provincial Map

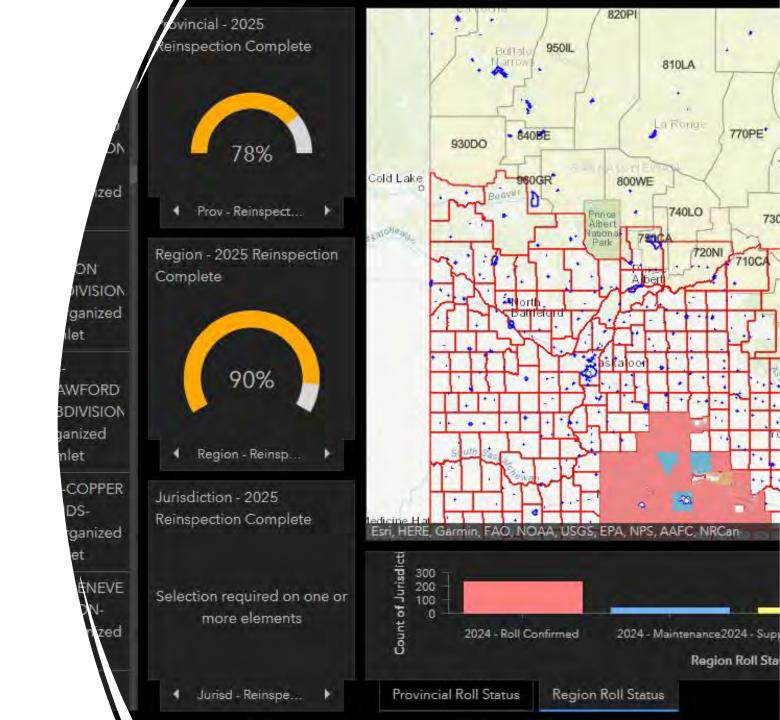
Portal Based GIS



Enterprise GIS Benefits

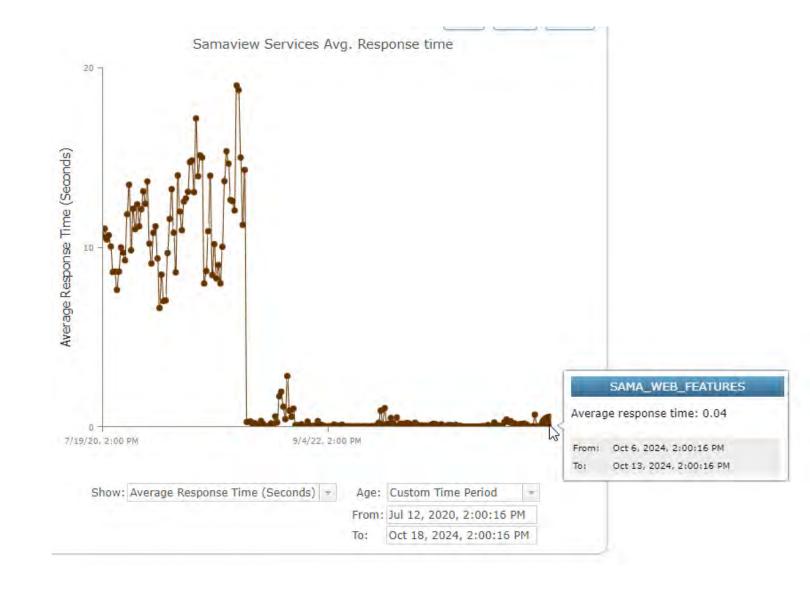
Portal Applications

- Web Maps
- Dashboards
- Experiences



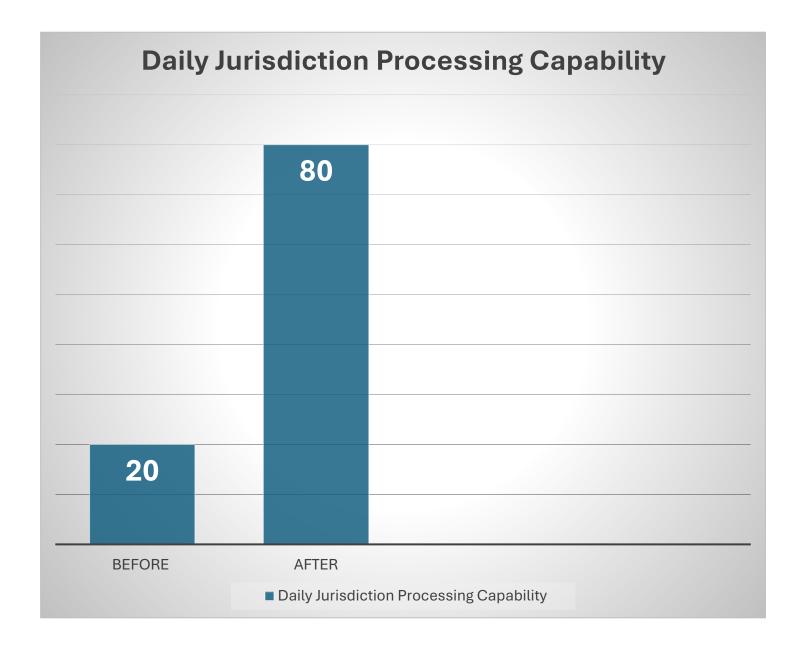
Look-up on SAMAView

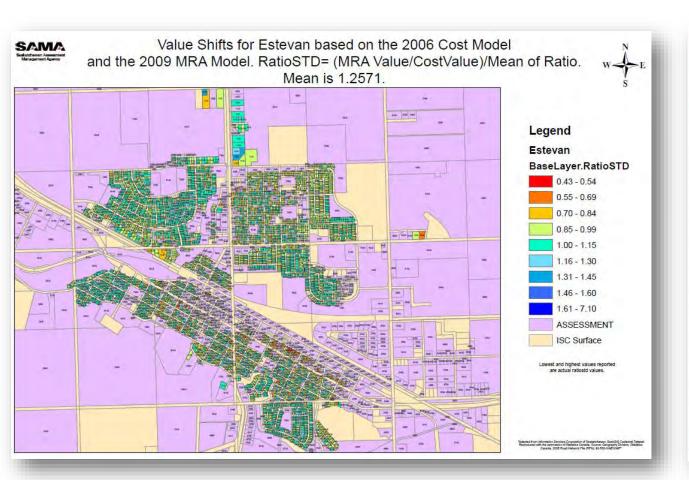
- Search times have been reduced by 99.8%
- October 2021
 Average Search times
 18 Seconds
- October 2024
 Average Search times
 0.04 Second

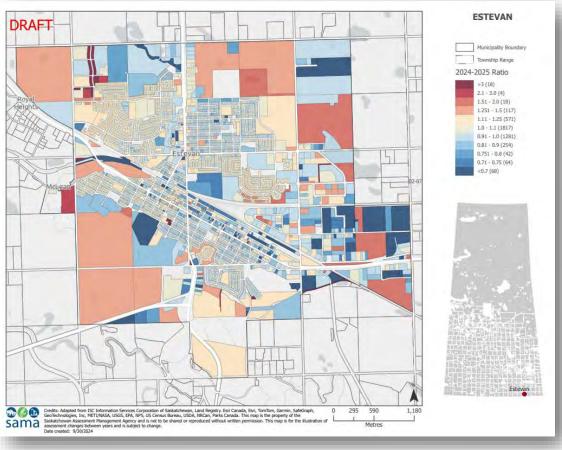


Samaview Jurisdiction Update Process

 We can process Four times as many jurisdictions each night





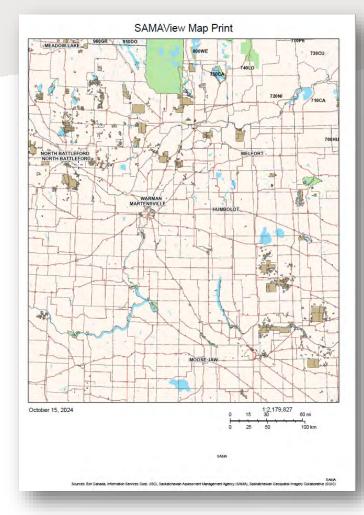


Then

Now

Multiple Regression Analysis and Trend Maps

SAMAView PDFs



SAMAView Map Print LONGLAKETON (RM) sama

Old SAMAView PDF

New SAMAView PDF

Opportunities on the Horizon

4-year Strategic Planning 2025-2028

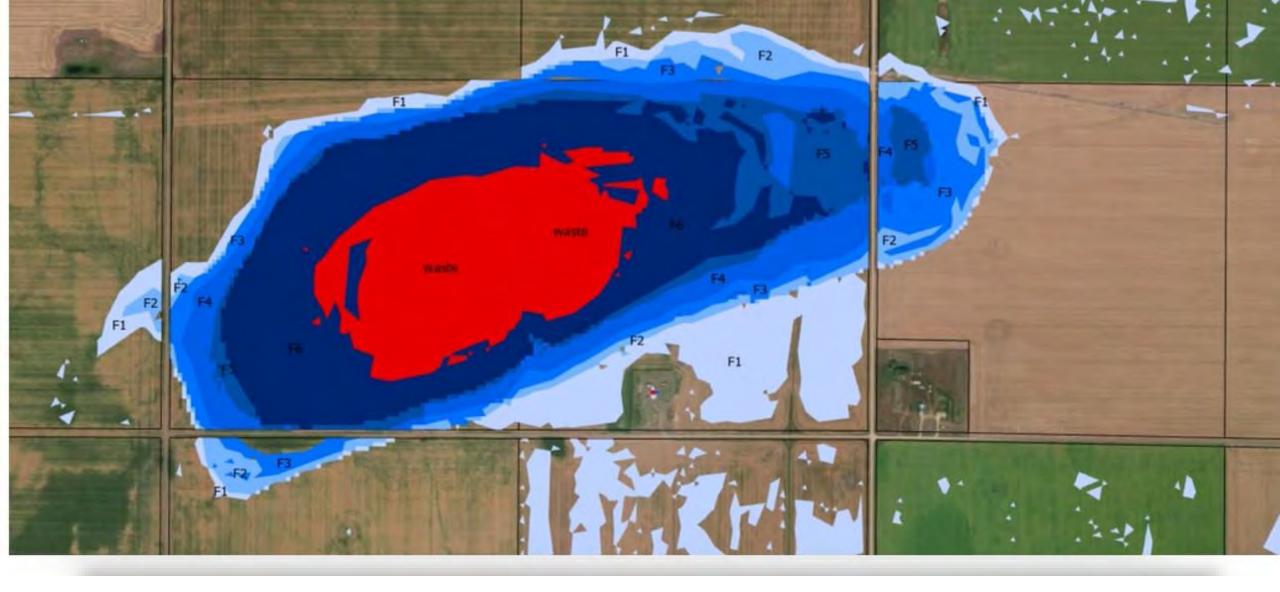
Initiative:	Upgrade to ESRI 11.3			S	tatus:	Α	pproved
Business Capability	Information Technology						
Description:	To maintain Esri support our ArcGIS enterprise installation must be upgraded to the next long term service release version. This project will be very similar to the last upgrade completed in 2023. The upgrade must be performed on our development and staging environments, and our processes applications and workflows must be evaluated to identify any incompatibilities in our GIS infrastructure. These issues must be addressed before we can perform the upgrade on production.						
Recommendations	Performing the upgrade on development and performing the testing work before the project will allow IS to make a more accurate timeline estimate. There is even a chance the initiative may not require a project structure, and could then be split across several opportunities						
Divisions Required:	ASD	TSP		IS	Financ		HR
	Х	Х		Х			
Resources	Financial No Additional financial resources required TSP testing/repair TSP manage portal content ASD testing						ess lications SP managed
Initiative Type	IS Project	Required Completion			ion Date		2027
Priority	High Ideal Completion Date 2025 -2026				25 -2026		
Value Added	 Generally, security to good functioning software Keeps us in compatibility (sync with integration of other systems) Keeps SAMA in ESRI Support 						

Industrial Map App Non-Well Sites

171-870929299 171-870929299 127600.0000000 100600,000000 1.270000 352-880734301 352-880734301 964300.0000000 1:050000 1020000.000000 ARE ARROSE FARM ******* ATT ATTACHERS - SCAA AAAAAA + manhanin



Industrial Railway



Flooding Decision Support Tool DEMO





Questions