

Chad Phelan **GIS Administrator** cphelan@slwsd.com 425-337-3647



♦ SHAPE

MAINTEY

· LASTUPDATE

LASTEDITOR

Ancillary/kol

FDO OBJECTE

FDO OBJECTED

♥ OBJECTED

FDO_SHAPE



Bend (Bend

Coupling (Coupling)

Expansion Joint (Exp

Over Under (Over U

Reducer (Reducer)

Reducing Cross (R

Reducing Tee (Redu

Transition (Transiti

Sleeve (Sleeve)

Teo (Teo)

Tee (Tee)

Other (Other)

Cross (Cross)

Cap (Cap)

Esri Local Government Information Model Clow Corporation (Clow Corpo

♦ SHAPE

Dresser (Dresser Kennedy Valve (Kennedy Val MSH Valve (MSH Valve) MBH Valve / Dresser (MBH V Hueller Company (Mueller Co US Pipe (US Pipe) Wood-Matthews (Wood-Matt Linknown (Unknown) Prayerse City (Traverse City Waterous (Waterous)

Other (Other)

Eddy (Eddy)

wPumpType Coded Value Domain Axial Flow (Axial F Centrifugal (Certri let (let) Reciprocating (Re-Rotary (Rotary) Turbine (Turbine Other (Other)

wStructureType (Coded Value Domain Enclosed Storage Production Well () Pump Station (Pum Storage Basin (Stor Treatment Plant (Tr Meter Station (Met Other (Other)

Administrative Area (Admi Engineering District (Engin Inspection Area (Inspectio Maintenance Area (Maint

Source (1)

Yes (Yes) Faise (0)

7/14/2015

False (0)

Private (-1)

Coded Water Code Our Agency (Private (-1)

Domestic (D. Raw Water (Raw) Reclaimed Water (Reclaime Fire (Fire) Salt Water (Salt) Storm Runoff (Storm) Other (Other Freated Water (Treated

Ball (Ball) Butterfly (Butterfly Cone (Cone) Commercial (C Industrial (Indu Plug (Plug) Roundway (Rounds Other (Other)

Goded Value Dom Hydrant (Hydrani imgetion(Imgetio Other (Other) Unknown (Unknow Domestic (Domesti Fire (Fire) Industrial (Industri

4"(4) 5" (6) Altitude (Altitude) E*(8) Blowoff (Blowoff) 10*(10) 12"(12) Combination (Combin Vacuum (Vacuum) 14" (14) Air Control (Air Contr 15"(15) Air Gap (Air Gap) 16"(16) Air Release (Air Relea 18"(18) 20*(20) Atmospheric Vacuum Backflow Control (Back 24" (24) 30" (30) Double Check (Double Pressure Vacuum (Pres 36*(36) Pressure Reducer (Pre 40*(40) 42" (42) Smole Check (Simple /acuum Breaker (Vacu 48"(48) Accoum Release (Vac 54" (54) Surge Relief (Surge R 50" (60) Snubber (Snubber) 66" (56) CLA (CLA) 72" (72) Reduced Pressure Zo 75"(75) Other (Other) Unknown (0 Other (-1)

3/4" (0.75)

1 1/4" (1.25)

11/2*(1.5)

2 1/2" (2.5)

2" (2)

3"(3)

What is it?

"ArcGIS for Local Government is based on a harmonized information model of GIS datasets, web services, and maps that we commonly refer to as the Local Government Information Model. It includes a series of essential foundation layers and operational information that support a range of key maps and apps within a local government."

- esri

What is it?

"ArcGIS for Local Government is based on a harmonized information model of GIS datasets, web services, and maps that we commonly refer to as the Local Government Information Model. It includes a series of essential foundation layers and operational information that support a range of key maps and apps within a local government."

Schema

Local Government Information Model Portal

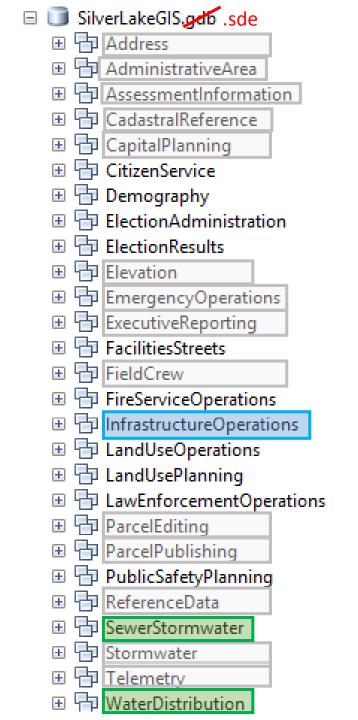
ArcGIS Online for Local Government, Water Utilities, etc.

Maps and Apps

ArcGIS for Water
Utilities, Fire
Service, Public
Works, etc.

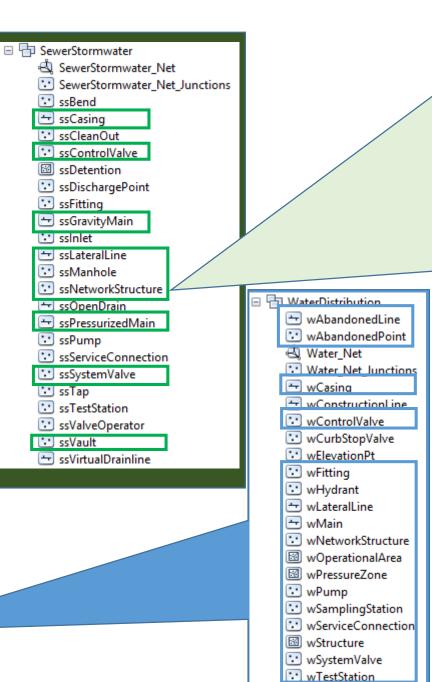
- esri

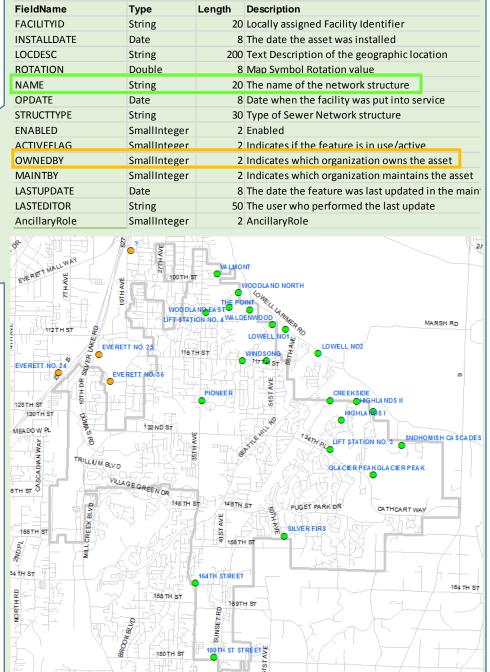
Local Government Basemaps



Information Model Structure







Why Would We Use This Hulking Beast?

Pros:

- Get access to Esri Maps, Apps and Templates built for it
- Reasonably well thought out schema based on Esri's experience with many other local governmental entities
- Be able to share more easily with other organizations....?

Cons:

- There will be many data structures that are not well suited to your organization
 - Esri's recommendation is that you don't delete anything...
- It is an evolving structure, and might evolve in a different direction than you had planned for...
 - I haven't used the update utility yet...

Maps and Apps

- http://solutions.arcgis.com/utilities/water/
- These vary from an MXD to scripts and coded applications
- They are good templates.

Work Order/ Asset Management...?

Hydrant Maintenance Inspection

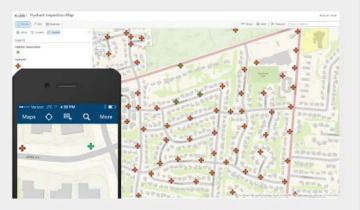
Home

Get Started

Overview

The Hydrant Maintenance Inspection solution modernizes the paper report for Hydrant Maintenance Inspections by using a smartphone or tablet device. By using a map view of hydrants, field crews are able to record scheduled or ad hoc Hydrant Maintenance Inspections on any mobile device using the Hydrant Maintenance Inspection schema.

Hydrant Maintenance Inspection is a configuration of ArcGIS Online and the Collector for ArcGIS application.



This allows field crews to collect inspection information regardless of connectivity to the office network assuming cellular coverage is available. The inspection information can then be used by operation managers schedule necessary repairs.

REQUIREMENTS

WHAT YOU GET

WHAT'S NEW

DOWNLOAD

TRY IT NOW

☐ 🖶 SilverLakeGIS.DBO.InfrastructureOperations

- SilverLakeGIS.DBO.BridgeMaintAgreement
- SilverLakeGIS.DBO.CallVolumeDistrictReport
- SilverLakeGIS.DBO.CallVolumeSnowMapReport
- SilverLakeGIS.DBO.CatchbasinInspection
- SilverLakeGIS.DBO.DrinkingWaterAdvisory
- SilverLakeGIS.DBO.EngineeringGrid
- SilverLakeGIS.DBO.ExternalAgencyProject
- SilverLakeGIS.DBO.LandscapeMaintAgreement
- SilverLakeGIS.DBO.MarkupPolygon
- : SilverLakeGIS.DBO.OutfallInspection
- SilverLakeGIS.DBO.PaveMarkMaintAgreement
- SilverLakeGIS.DBO.piAlert
- SilverLakeGIS.DBO.piBoundary
- ➡ SilverLakeGIS.DBO.piBoundaryLine
- SilverLakeGIS.DBO.piProject
- SilverLakeGIS.DBO.piServiceArea
- : SilverLakeGIS.DBO.piWorkorder
- SilverLakeGIS.DBO.PlanDrawing
- SilverLakeGIS.DBO.PlowActivityDistrictReport
- SilverLakeGIS.DBO.PlowActivitySnowMapReport
- SilverLakeGIS.DBO.PrintGrid
- ➡ SilverLakeGIS.DBO.RoadBlock
- : SilverLakeGIS.DBO.RoadBlockPoint
- ➡ SilverLakeGIS.DBO.RoadDetour
- SilverLakeGIS.DBO.SanitaryMaintAgreement
- SilverLakeGIS.DBO.SCADASite
- ➡ SilverLakeGIS.DBO.SignalMaintAgreement
- SilverLakeGIS.DBO.SignMaintAgreement
- SilverLakeGIS.DBO.SLLatecomerAreas
- SilverLakeGIS.DBO.SLPremiseID
- : SilverLakeGIS.DBO.ssBackupEvent
- SilverLakeGIS.DBO.ssManholeInspection
- SilverLakeGIS.DBO.ssOverflowEvent
- SilverLakeGIS.DBO.StormwaterMaintAgreement
- ➡ SilverLakeGIS.DBO.StreetlightMaintAgreement
- SilverLakeGIS.DBO.StreetMaintAgreement
- SilverLakeGIS.DBO.TapPoint
- SilverLakeGIS.DBO.WaterMaintAgreement
- SilverLakeGIS.DBO.wHydrantInspection
- SilverLakeGIS.DBO.wLeak
- SilverLakeGIS.DBO.wValveInspection

Work Order/ Asset Management...?

Hydrant Maintenance Inspection

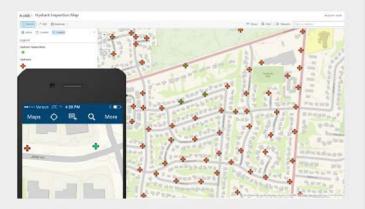
Home

Get Started

Overview

The Hydrant Maintenance Inspection solution modernizes the paper report for Hydrant Maintenance Inspections by using a smartphone or tablet device. By using a map view of hydrants, field crews are able to record scheduled or ad hoc Hydrant Maintenance Inspections on any mobile device using the Hydrant Maintenance Inspection schema.

Hydrant Maintenance Inspection is a configuration of ArcGIS Online and the Collector for ArcGIS application.



This allows field crews to collect inspection information regardless of connectivity to the office network assuming cellular coverage is available. The inspection information can then be used by operation managers schedule necessary repairs.

REQUIREMENTS

WHAT YOU GET

WHAT'S NEW

DOWNLOAD

TRY IT NOW

Removed at July 2015 update of LGIM

- ☐ 🖶 SilverLakeGIS.DBO.InfrastructureOperations
 - ➡ SilverLakeGIS.DBO.BridgeMaintAgreement
 - SilverLakeGIS.DBO.CallVolumeDistrictReport
 - SilverLakeGIS.DBO.CallVolumeSnowMapReport
 - SilverLakeGIS.DBO.CatchbasinInspection
 - SilverLakeGIS.DBO.DrinkingWaterAdvisory
 - SilverLakeGIS.DBO.EngineeringGrid
 - SilverLakeGIS.DBO.ExternalAgencyProject
 - SilverLakeGIS.DBO.LandscapeMaintAgreement
 - SilverLakeGIS.DBO.MarkupPolygon
 - : SilverLakeGIS.DBO.OutfallInspection
 - SilverLakeGIS.DBO.PaveMarkMaintAgreement
 - SilverLakeGIS.DBO.piAlert
 - SilverLakeGIS.DBO.piBoundary
 - SilverLakeGIS.DBO.piBoundaryLine
 - SilverLakeGIS.DBO.piProject
 - SilverLakeGIS.DBO.piServiceArea
 - SilverLakeGIS.DBO.piWorkorder
 - SilverLakeGIS.DBO.PlanDrawing
 - SilverLakeGIS.DBO.PlowActivityDistrictReport
 - SilverLakeGIS.DBO.PlowActivitySnowMapReport
 - SilverLakeGIS.DBO.PrintGrid
 - SilverLakeGIS.DBO.RoadBlock
 - SilverLakeGIS.DBO.RoadBlockPoint
 - ➡ SilverLakeGIS.DBO.RoadDetour
 - ➡ SilverLakeGIS.DBO.SanitaryMaintAgreement
 - SilverLakeGIS.DBO.SCADASite
 - SilverLakeGIS.DBO.SignalMaintAgreement
 - SilverLakeGIS.DBO.SignMaintAgreement
 - SilverLakeGIS.DBO.SLLatecomerAreas
 - SilverLakeGIS.DBO.SLPremiseID
 - : SilverLakeGIS.DBO.ssBackupEvent
 - : SilverLakeGIS.DBO.ssManholeInspection
 - SilverLakeGIS.DBO.ssOverflowEvent
 - SilverLakeGIS.DBO.StormwaterMaintAgreement
 - SilverLakeGIS.DBO.StreetlightMaintAgreement
 - SilverLakeGIS.DBO.StreetMaintAgreement
 - SilverLakeGIS.DBO.TapPoint
 - SilverLakeGIS.DBO.WaterMaintAgreement
 - SilverLakeGIS.DBO.wHydrantInspection
 - SilverLakeGIS.DBO.wLeak
 - SilverLakeGIS.DBO.wValveInspection

Initial Setup

- Download: http://solutions.arcgis.com/local-government/help/local-government-information-model/
 - XML Data Dictionary
 - XML Schema
 - Release Notes
- X-Ray for ArcCatalog: Use to set spatial reference
- Schema Migration Wizard
 - Updates are made to the schema, this updates your schema to latest version
- New version of the Information Model just released (July 7th)

What do
you wan
to add/
change?

Sewer Gravity Mains

Type

String

Date

String

Length Description

20 Locally assigned Facility Identifier

8 The date the asset was installed

20 Material the asset is manufactured with

FieldName

FACILITYID

MATERIAL

INSTALLDATE

	IVIATERIAE	Julia	20 Material the asset is manaradeared with		pri ipciviateriai	man	truc
VOLLWORT	DIAMETER	Double	8 The diameter of the asset	Diameter	piPipeDiameter	null	true
you want	MAINSHAPE	String	50 The shape of the gravity main	Main Shape	piPipeShape	null	true
, , , ,	LINEDYEAR	String	4 Year the pipe was lined	Year Lined	null	null	true
to add/	LINERTYPE	String	20 The type of liner	Liner Type	piLiningMethod	null	true
to addy	FROMMH	String	11 From Manhole	From Manhole	null	null	true
1	TOMH	String	11 The downstream manhole	To Manhole	null	null	true
changer	WATERTYPE	String	30 Indicates the type of water in the pipe	Water Type	ssWaterType	null	true
you want to add/ change?	ENABLED	SmallInteger	2 Enabled	Enabled	EnabledDomain	:	1 true
	ACTIVEFLAG	SmallInteger	2 Indicates if the feature is in use/active	Active Flag	BooleanDomain		1 true
	OWNEDBY	SmallInteger	2 Indicates which organization owns the asset	Owned By	AssetOwner	:	1 true
Original fields	MAINTBY	SmallInteger	2 Indicates which organization maintains the asset	Managed By	AssetManager	:	1 true
	SUMFLOW	Double	8 The sum of flow	Flow Summary	null	null	true
	LASTUPDATE	Date	8 The date the feature was last updated in the maintenance database	Last Update Date	null	null	true
	LASTEDITOR	String	50 The user who performed the last update	Last Editor	null	null	true
	DOWNELEV	Double	8 The downstream pipe elevation	Downstream Elevation	null	null	true
	UPELEV	Double	8 The upstream pipe elevation	Upstream Elevation	null	null	true
	SLOPE	Double	8 The slope of the pipe	Slope	null	null	true
	LocSource	String	8 Source of location information-implies level of accuracy	Location Source	LocSource	null	true
Cioldo oddod	AsBuilt	String	30 As Built Number	As Built	null	null	true
Fields added	Development	String	50 Development name	Development	null	null	true
to most	Comments	String	150 Comments	Comments	null	null	true
	Attachments	String	150 Location of attachments folder	Attachments	null	null	true
feature classes	MapPage	String	4 Map page containing asset	Map Page	null	null	true
	URL	String	150 File location of as-built PDF for project when asset installed	URL	null	null	true
	Easement	Integer	2 Yes/No does main lie in an easement		BooleanDomain	null	true
Foaturo class	EasementNum	String	30 Easement ID Number	Easement Number	null	null	true
	BasinName	String	30 Sewer Basin flows flow to	Basin Name	SLssBasin	null	true
Feature class –	Treatment	String	30 Agency which receives sewer flows	Treatment	SLssTreatment	null	true
specific fields	Datum	String	30 Vertical Datum	Datum	SLpiDatum	null	true
	LastFlushed	Date	8 Date the line was last flushed		null	null	true
	FlushFrequency	String	30 Planned flush frequency	Flush Frequency	SLpiFlushFreq	null	true
	Manufacturer	String	30 Pipe Manufacturer	Manufacturer	SLpiPipeManufacturer	null	true
	UtilityTax	String	30 Utility Tax designation	Utility Tax	SLssUtilityTax	null	true

AliasName

Install Date

Material

Facility Identifier

DomainName

piPipeMaterial

null

null

DefaultValue IsNullable

true

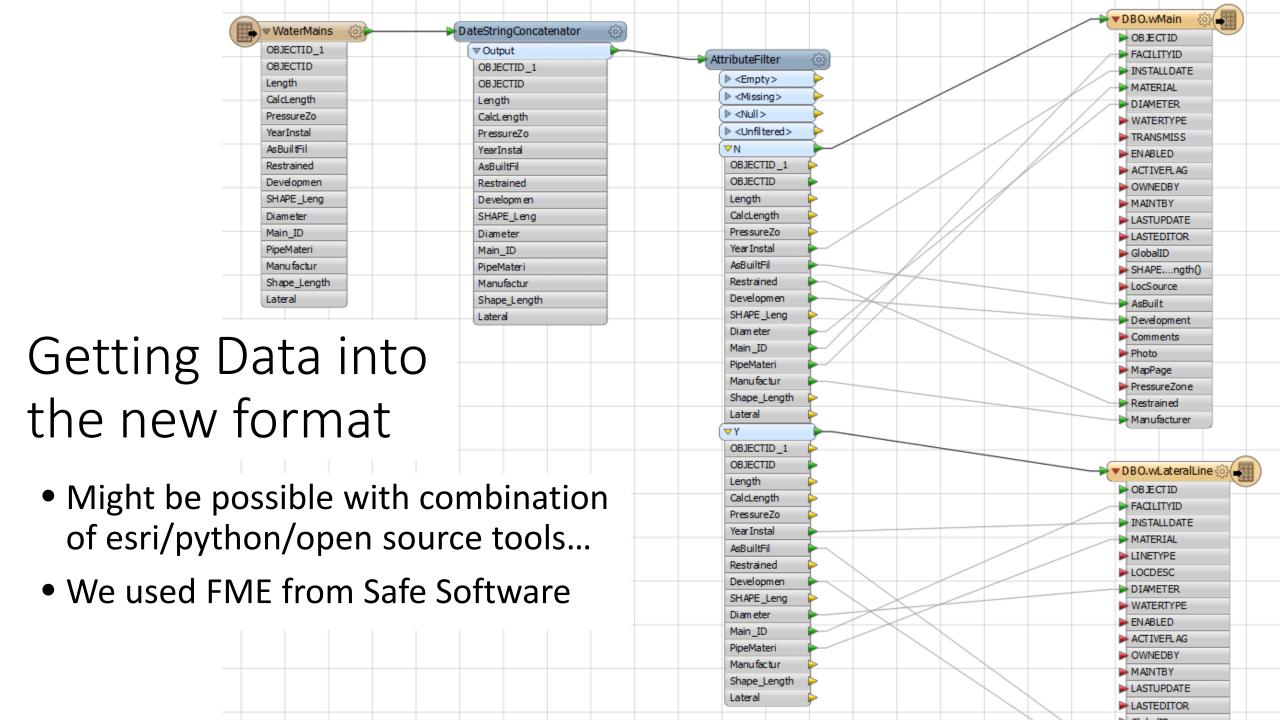
true

true

null

null

null



Thanks!

Questions?

cphelan@slwsd.com 425-337-3647