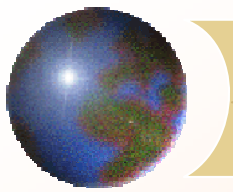


Building an E-911 Centerline Database: Tools, Applications and Lessons Learned

Jim Landwehr
Land Information Systems Analyst
Waukesha County
Dept. of Parks and Land Use



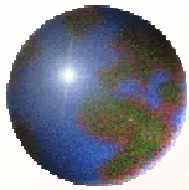
ESRI Wisconsin
Users Group



Overview

- ✦ County's move to a "Shared Dispatch System"
- ✦ Master Address File Creation
- ✦ Street Centerline Conversion
- ✦ Data QA/QC and Cleanup
- ✦ Custom ArcGIS tools
- ✦ Summary and lessons learned





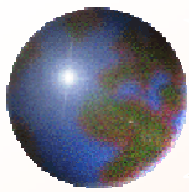
Shared Dispatch Participants

- Town of Brookfield
- Town of Delafield
- Town of Eagle
- Town of Genesee
- Town of Lisbon
- Town of Merton
- Town of Mukwonago
- Town of Oconomowoc
- Town of Ottawa
- Town of Summit
- Town of Vernon
- Town of Waukesha
- Village of Big Bend
- Village of Butler
- Village of Chenequa
- Village of Dousman
- Village of Eagle
- Village of Elm Grove
- Village of Hartland
- Village of Lac La Belle
- Village of Merton
- Village of Nashotah
- Village of North Prairie
- Village of Oconomowoc Lake
- Village of Pewaukee
- Village of Sussex
- Village of Wales
- City of Pewaukee
- City of Oconomowoc (Just signed on)

Non- Participants

- City of Muskego
- City of New Berlin
- City of Waukesha
- Village of Menomonee Falls
- Village of Mukwonago
- Village of Lannon

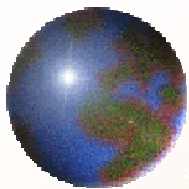




Pieces to the puzzle

- Co. has a mix of 100 Range and coordinate addresses
 - 123 E MAIN ST
 - W332N5983 CEDAR BAY DR
- 70 responding agencies in the County. Police, Fire EMS, Sheriff
- Dispatch zones, Response plan zones, Reporting areas, Special areas
- Pilot area of 11 jurisdictions (Lake Country)





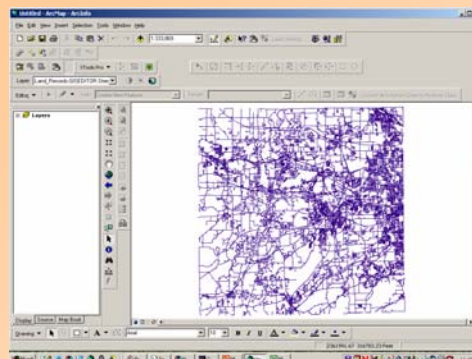
What we had to start with...

✚ Master Address File

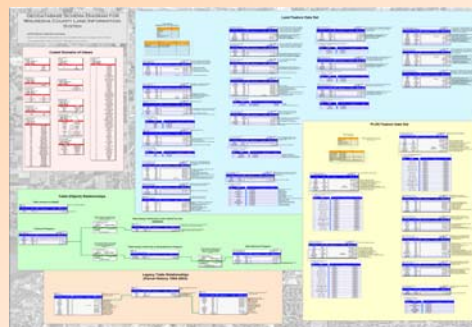
- ✚ Linked to parcels
- ✚ Out-of-date

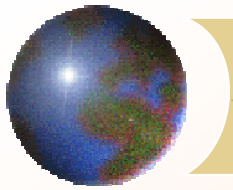
StreetNumber	StreetType	City	State	ZipCode	Active	UnitAddress
WCA00000	RD BEND	WI	53003	0000	1	7300
WCA00010	RD BEND	WI	53003	0000	1	7302
WCA00020	RD BEND	WI	53003	0000	1	7304
WCA00030	RD BEND	WI	53003	0000	1	7306
WCA00040	RD BEND	WI	53003	0000	1	7308
WCA00050	RD BEND	WI	53003	0000	1	7310
WCA00060	RD BEND	WI	53003	0000	1	7312
WCA00070	RD BEND	WI	53003	0000	1	7314
WCA00080	RD BEND	WI	53003	0000	1	7316
WCA00090	RD BEND	WI	53003	0000	1	7318
WCA00100	RD BEND	WI	53003	0000	1	7320
WCA00110	RD BEND	WI	53003	0000	1	7322
WCA00120	RD BEND	WI	53003	0000	1	7324
WCA00130	RD BEND	WI	53003	0000	1	7326
WCA00140	RD BEND	WI	53003	0000	1	7328
WCA00150	RD BEND	WI	53003	0000	1	7330
WCA00160	RD BEND	WI	53003	0000	1	7332
WCA00170	RD BEND	WI	53003	0000	1	7334
WCA00180	RD BEND	WI	53003	0000	1	7336
WCA00190	RD BEND	WI	53003	0000	1	7338
WCA00200	RD BEND	WI	53003	0000	1	7340
WCA00210	RD BEND	WI	53003	0000	1	7342
WCA00220	RD BEND	WI	53003	0000	1	7344
WCA00230	RD BEND	WI	53003	0000	1	7346
WCA00240	RD BEND	WI	53003	0000	1	7348
WCA00250	RD BEND	WI	53003	0000	1	7350
WCA00260	RD BEND	WI	53003	0000	1	7352
WCA00270	RD BEND	WI	53003	0000	1	7354
WCA00280	RD BEND	WI	53003	0000	1	7356
WCA00290	RD BEND	WI	53003	0000	1	7358
WCA00300	RD BEND	WI	53003	0000	1	7360
WCA00310	RD BEND	WI	53003	0000	1	7362
WCA00320	RD BEND	WI	53003	0000	1	7364
WCA00330	RD BEND	WI	53003	0000	1	7366
WCA00340	RD BEND	WI	53003	0000	1	7368
WCA00350	RD BEND	WI	53003	0000	1	7370
WCA00360	RD BEND	WI	53003	0000	1	7372
WCA00370	RD BEND	WI	53003	0000	1	7374
WCA00380	RD BEND	WI	53003	0000	1	7376
WCA00390	RD BEND	WI	53003	0000	1	7378
WCA00400	RD BEND	WI	53003	0000	1	7380
WCA00410	RD BEND	WI	53003	0000	1	7382
WCA00420	RD BEND	WI	53003	0000	1	7384
WCA00430	RD BEND	WI	53003	0000	1	7386
WCA00440	RD BEND	WI	53003	0000	1	7388
WCA00450	RD BEND	WI	53003	0000	1	7390
WCA00460	RD BEND	WI	53003	0000	1	7392
WCA00470	RD BEND	WI	53003	0000	1	7394
WCA00480	RD BEND	WI	53003	0000	1	7396
WCA00490	RD BEND	WI	53003	0000	1	7398
WCA00500	RD BEND	WI	53003	0000	1	7400
WCA00510	RD BEND	WI	53003	0000	1	7402
WCA00520	RD BEND	WI	53003	0000	1	7404
WCA00530	RD BEND	WI	53003	0000	1	7406
WCA00540	RD BEND	WI	53003	0000	1	7408
WCA00550	RD BEND	WI	53003	0000	1	7410
WCA00560	RD BEND	WI	53003	0000	1	7412
WCA00570	RD BEND	WI	53003	0000	1	7414
WCA00580	RD BEND	WI	53003	0000	1	7416
WCA00590	RD BEND	WI	53003	0000	1	7418
WCA00600	RD BEND	WI	53003	0000	1	7420
WCA00610	RD BEND	WI	53003	0000	1	7422
WCA00620	RD BEND	WI	53003	0000	1	7424
WCA00630	RD BEND	WI	53003	0000	1	7426
WCA00640	RD BEND	WI	53003	0000	1	7428
WCA00650	RD BEND	WI	53003	0000	1	7430
WCA00660	RD BEND	WI	53003	0000	1	7432
WCA00670	RD BEND	WI	53003	0000	1	7434
WCA00680	RD BEND	WI	53003	0000	1	7436
WCA00690	RD BEND	WI	53003	0000	1	7438
WCA00700	RD BEND	WI	53003	0000	1	7440
WCA00710	RD BEND	WI	53003	0000	1	7442
WCA00720	RD BEND	WI	53003	0000	1	7444
WCA00730	RD BEND	WI	53003	0000	1	7446
WCA00740	RD BEND	WI	53003	0000	1	7448
WCA00750	RD BEND	WI	53003	0000	1	7450
WCA00760	RD BEND	WI	53003	0000	1	7452
WCA00770	RD BEND	WI	53003	0000	1	7454
WCA00780	RD BEND	WI	53003	0000	1	7456
WCA00790	RD BEND	WI	53003	0000	1	7458
WCA00800	RD BEND	WI	53003	0000	1	7460
WCA00810	RD BEND	WI	53003	0000	1	7462
WCA00820	RD BEND	WI	53003	0000	1	7464
WCA00830	RD BEND	WI	53003	0000	1	7466
WCA00840	RD BEND	WI	53003	0000	1	7468
WCA00850	RD BEND	WI	53003	0000	1	7470
WCA00860	RD BEND	WI	53003	0000	1	7472
WCA00870	RD BEND	WI	53003	0000	1	7474
WCA00880	RD BEND	WI	53003	0000	1	7476
WCA00890	RD BEND	WI	53003	0000	1	7478
WCA00900	RD BEND	WI	53003	0000	1	7480
WCA00910	RD BEND	WI	53003	0000	1	7482
WCA00920	RD BEND	WI	53003	0000	1	7484
WCA00930	RD BEND	WI	53003	0000	1	7486
WCA00940	RD BEND	WI	53003	0000	1	7488
WCA00950	RD BEND	WI	53003	0000	1	7490
WCA00960	RD BEND	WI	53003	0000	1	7492
WCA00970	RD BEND	WI	53003	0000	1	7494
WCA00980	RD BEND	WI	53003	0000	1	7496
WCA00990	RD BEND	WI	53003	0000	1	7498
WCA01000	RD BEND	WI	53003	0000	1	7500

✚ “Dumb” Planimetric Centerline file



✚ SDE Parcel GDB

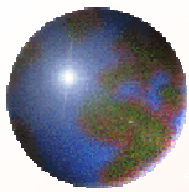




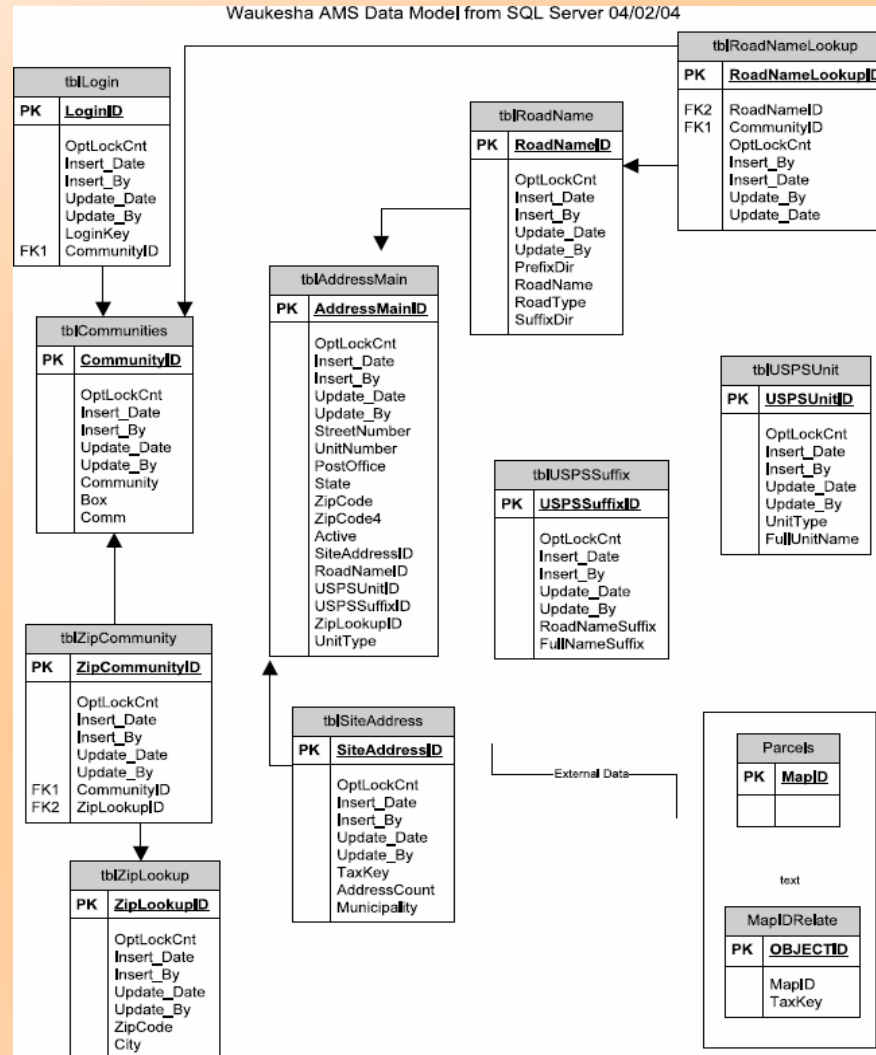
Master Address File

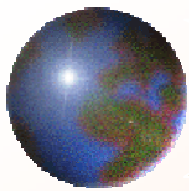
- Created in 2002
- Parcel based
- Maintained using ArcIMS Address Maintenance System Application (AMS)





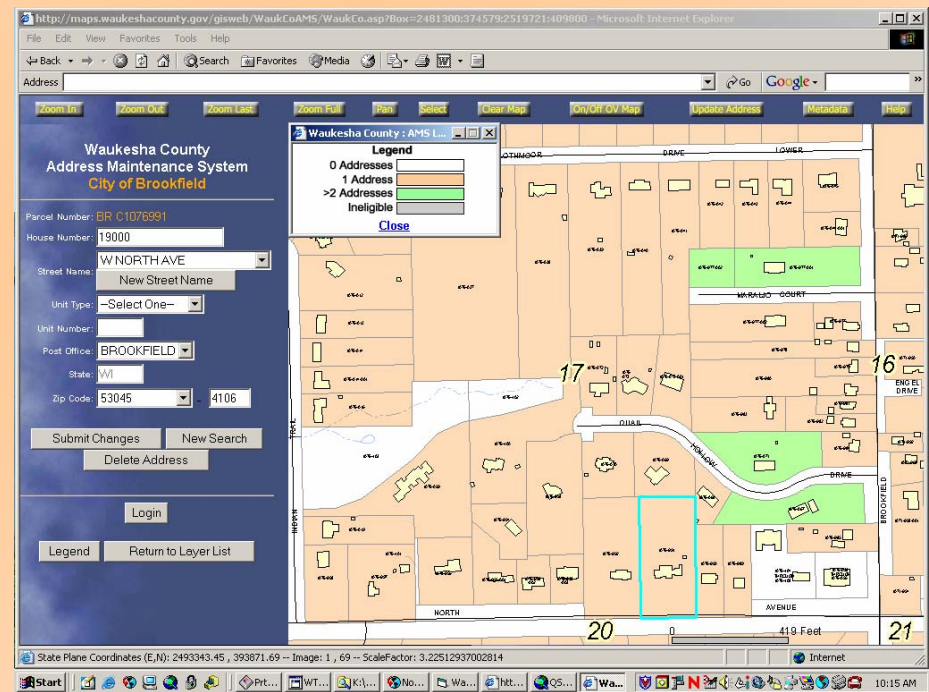
AMS Database Diagram

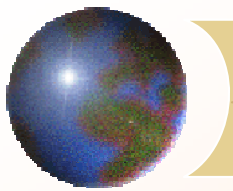




AMS Application

- ✿ Allows address input and editing of master address file
- ✿ Deployable to Municipalities
- ✿ Can “plug-in” this AMS service to ArcMap
- ✿ Links parcels in GDB to AMS Database using an SDE Spatial View
- ✿ Allows real-time rendering of address counts





More About SDE Spatial Views

✚ Create simple view in SDE first

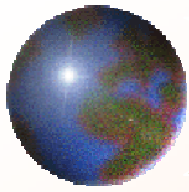
- ✚ C:\Documents and Settings\sdeadmin>sdetable -o create_view -T parcel_count_view -t TAXPARCEL -c shape,OBJECTID,MAPID -u GISEDITOR -p <passwd> -s <server> -D <db> -i <service>

- ✚ Creates necessary SDE tables

- ✚ Edit this view in SQL server to link tables/columns

✚ Appears as a “virtual feature class”





Centerline Data Population

✦ Provided to vendor;

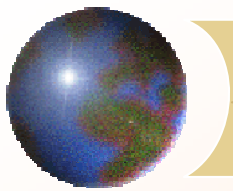


- ✦ Dumb Planimetric Centerline
- ✦ Master Address DB
- ✦ Parcels

✦ Received from vendor;

- ✦ Fully attributed centerline
- ✦ > 31,000 segments
- ✦ Some gaps where parcel address data not available



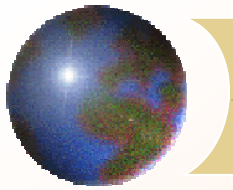


Centerline Data Update/QC

✿ Four Summer “Interns”

- ✿ Two data entry and verification
 - 1 former Tele Atlas employee
 - 1 UWM Graduate student
- ✿ Two field personnel

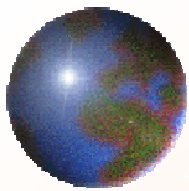




Other centerline items to consider

- ❖ Interstates
 - ❑ Segmented by mile marker
- ❖ Railroads
 - ❑ All named 'RR'
- ❖ Trails
 - ❑ Named to account for intersections w/roads
- ❖ Lakes
 - ❑ Bogus segments put into lakes to aid dispatch to lake emergencies
- ❖ Street Aliases





Street Alias File

In GeoDatabase as:

✓ *CTH CW*

In Alias db as:

✓ *CTY TK CW*

✓ *HWY CW*

✓ *HY CW*

✓ *HYCW*

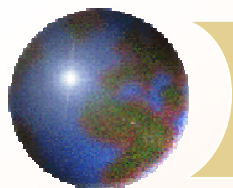
The screenshot shows two tables in Microsoft Access. The left table, 'stalias', has columns OBJECTID, ALIASID, and UNIQNAME. The right table, 'multiAlias', has columns OBJECTID, ALIASID, and MULTI. Both tables contain 30 records each.

OBJECTID	ALIASID	UNIQNAME
1	3	HY BB
2	4	HY C
3	5	HY CI
4	6	HY CW
5	7	HY D
6	8	HY DE
7	9	HY DR
9	11	HY E
10	12	HY EE
11	13	HY ES
12	14	HY G
13	15	HY GD
14	16	HY GE
15	17	HY GG
16	18	HY GR
17	19	HY I
18	20	HY J
19	21	HY JJ
20	22	HY JK
21	23	HY K
22	24	HY KC
23	25	HY KE
24	26	HY LO
25	27	HY N
26	28	HY NN
27	29	HY P
28	30	HY Q
29	31	HY R
30	32	HY S

OBJECTID	ALIASID	MULTI
1	3	HWY BB
2	3	HY BB
3	3	HYBB
4	3	CTY TK BB
5	4	CTY TK C
6	4	HWY C
7	4	HY C
8	4	HYC
9	5	CTY TK CI
10	5	HWY CI
11	5	HY CI
12	5	HYCI
13	6	CTY TK CW
14	6	HYCW
15	6	HWY CW
16	6	HY CW
17	7	CTY TK D
18	7	HWY D
19	7	HY D
20	7	HYD
21	8	CTY TK DE
22	8	HWY DE
23	8	HY DE
24	8	HYDE
25	9	HYDR
26	9	CTY TK DR
27	9	HWY DR
28	9	HY DR



ESRI Wisconsin Users Group









More Alias Fun...



GIS (“US”)

vs.

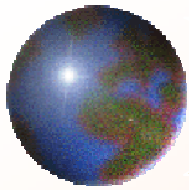
(Dispatch)“THEM”

 ID	INPUT NAME	CONVERTED NAME
 11	ANCHOR RODE LA	ANCHOR RODE ST
 12	BROKEN BOW TRL	BROKEN BOW TR
 13	BRUMDER RD	BRUMDER DR
 14	CAMPBELL TRCE	CAMPBELL TRACE
 15	CEDAR BND	CEDAR BEND



















Handling of misspellings

-  McArthur, Mc Arthur, MacArthur, Mac Arthur
-  Third St (GDB) > 3RD ST (.shp) > Third St (Dispatcher)



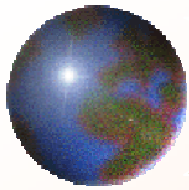


ArcMap Centerline Toolset

-  Modify Attributes tool
-  Add Line tool
-  Modify Linework tool
-  Modify Linework and Attributes tool
-  Copy feature values tool
-  Flip tool
-  Split tool
-  Select streets for mapzone processing
-  Process streets in *selected* zone
-  Alias tool - add, delete, manage aliases
-  Save Edits
-  Stop Editing
-  Zone Check
-  AMS Road name selection
-  Toggle centerline selection for AMS processing
-  Toggle Parcel selection for AMS processing
-  AMS Road name update process
-  Reset toolbar

R.A.SMITH
& ASSOCIATES, INC.



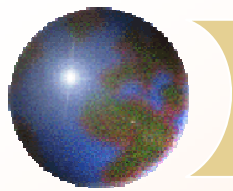


ArcMap Centerline Toolset



- ✚ Encapsulates most used functions into single toolbar
- ✚ Written in VBA
- ✚ Integrated with AMS database using SQL views
- ✚ On demand...
- ✚ Work in an SDE GDB versioned environment





Versioning unleashed...Hey, this really works!*

```

C:\WINNT\system32\cmd.exe
ArcSDE Instance 5151 Registered Server Tasks on wt2 at Mon Oct 11 14:29:16 2004
PID      User      Host:OS      Started
-----
45551    IMSADMIN  wt:Win32     Mon Oct 11 09:02:26 2004
45553    IMSADMIN  wt:Win32     Mon Oct 11 09:02:34 2004
45648    JWILKE    PLU-PKS-230-007:Win32
45674    KMEINERT  HDUMKE:Win32
45660    RDCNSLT  PLU-LIS-LAB-002:Win32
45662    GISEDITOR PLU-LIS-LAB-002:Win32
45580    WCOZZENS  plu-lis-lab-005:Win32
45664    RDCNSLT  PLU-LIS-LAB-002:Win32
45666    RDCNSLT2 PLU-LIS-LAB-002:Win32
45598    DDITTMAR PLU-LIS-LAB-001:Win32
45563    LSAI      PLU-PKS-230-007:Win32
45600    GISEDITOR PLU-LIS-LAB-001:Win32
45602    JLANDWEHR PLU-LIS-LAB-001:Win32
45604    DDITTMAR PLU-LIS-LAB-001:Win32
45668    RDCNSLT2 WC-9288F166BC7D:Win32
45670    WCOZZENS  WC-9288F166BC7D:Win32
45672    RDCNSLT2 WC-9288F166BC7D:Win32
45676    ABARROWS  PLU-LC-260-0008:Win32
45678    ABARROWS  PLU-LC-260-0008:Win32
45680    JLANDWEHR PLU-LIS-LAB-006:Win32
C:\Documents and Settings\jlandwehr\Desktop>cmd
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.
C:\Documents and Settings\jlandwehr\Desktop>_

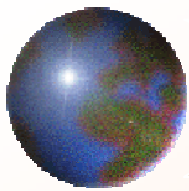
```

Short turn-around time necessitated multi-user editing.

Name	Owner	Access	Last Modified
Jim's_Streets_Edits	JLANDWEHR	Protected	10/6/2004 4:08:21 PM
rdcnslt2_Streets_Edit	RDCNSLT2	Protected	10/15/2004 4:38:55 PM
rdcnslt_Streets_Edit	RDCNSLT	Protected	10/18/2004 12:47:41 PM
BillsStreetsEdit	WCOZZENS	Protected	10/13/2004 10:07:17 AM
ddittmar_Streets_Edit	DDITTMAR	Protected	10/15/2004 4:39:11 PM
BillsEdits	WCOZZENS	Protected	10/14/2004 2:31:11 PM
DEFAULT	sde	Protected	10/15/2004 4:39:29 PM

*In some cases we had 5 people editing the same feature class

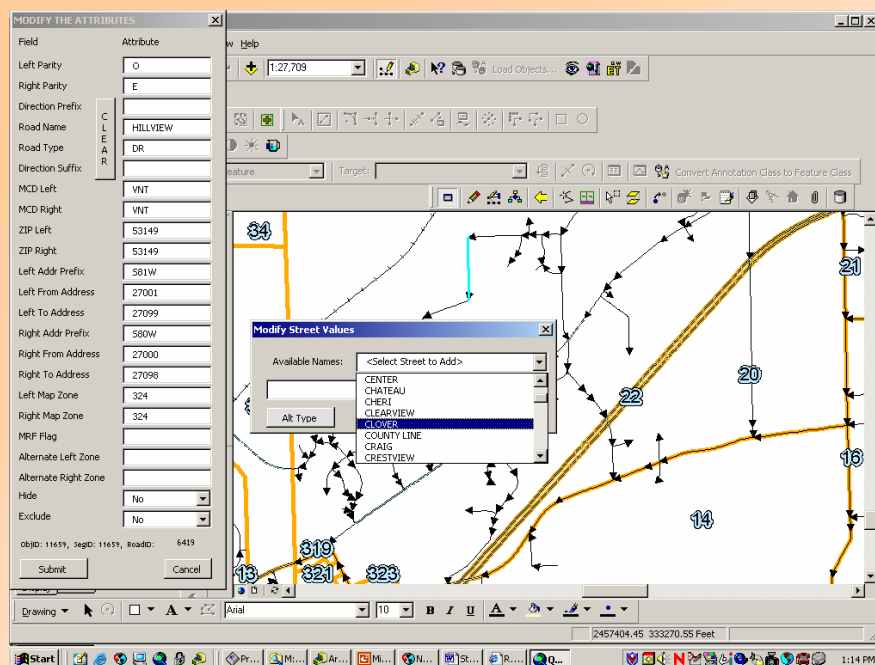


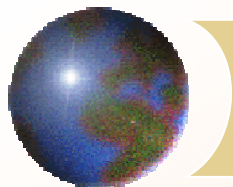


Cool tools...

Modify Attributes

- Linked to AMS DB to control street name domain list
- Presents all attributes in easy-to-edit manner
- Manages SEGMENTID and ROADNAMEID for uniqueness

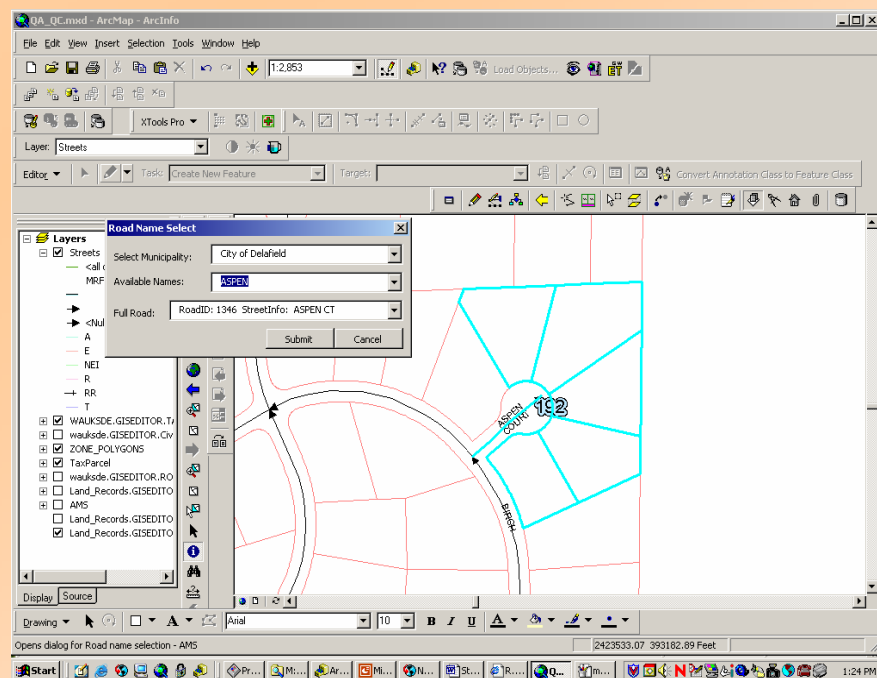


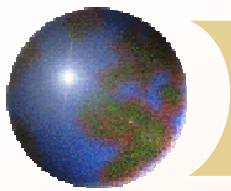


Really cool tools...

☛ Street select

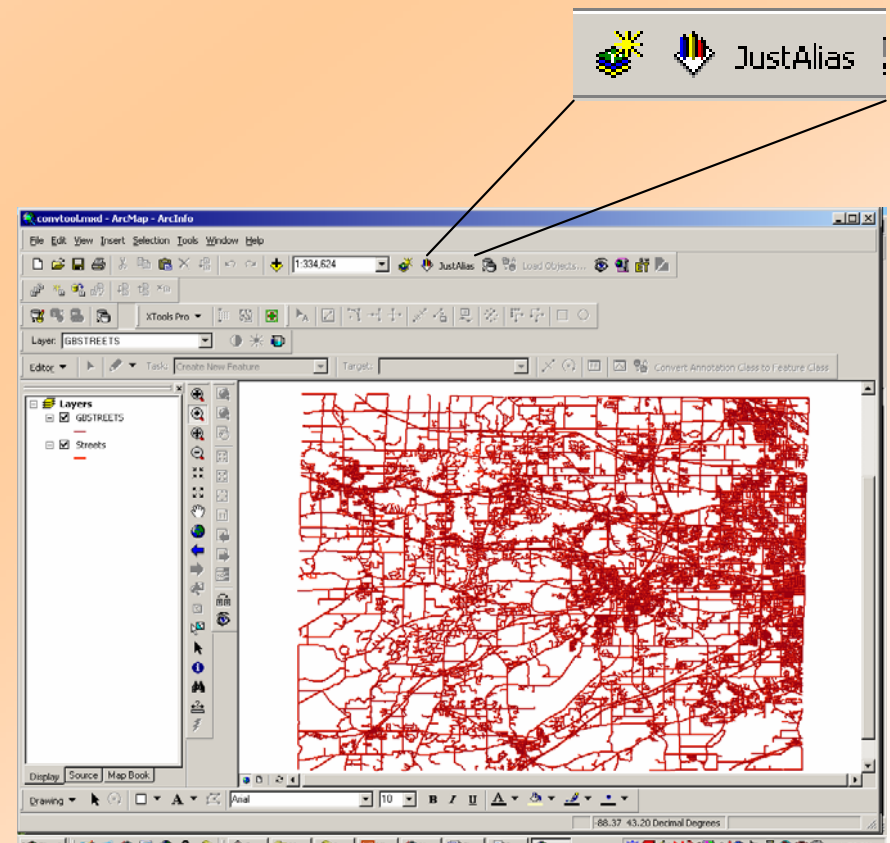
- ☛ Searches by street name for all parcels linked to name
- ☛ If none linked, option to delete Road from AMS is presented
- ☛ Uses an SDE spatial view

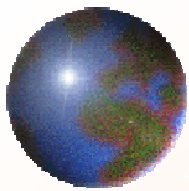




The coolest tool of them all!

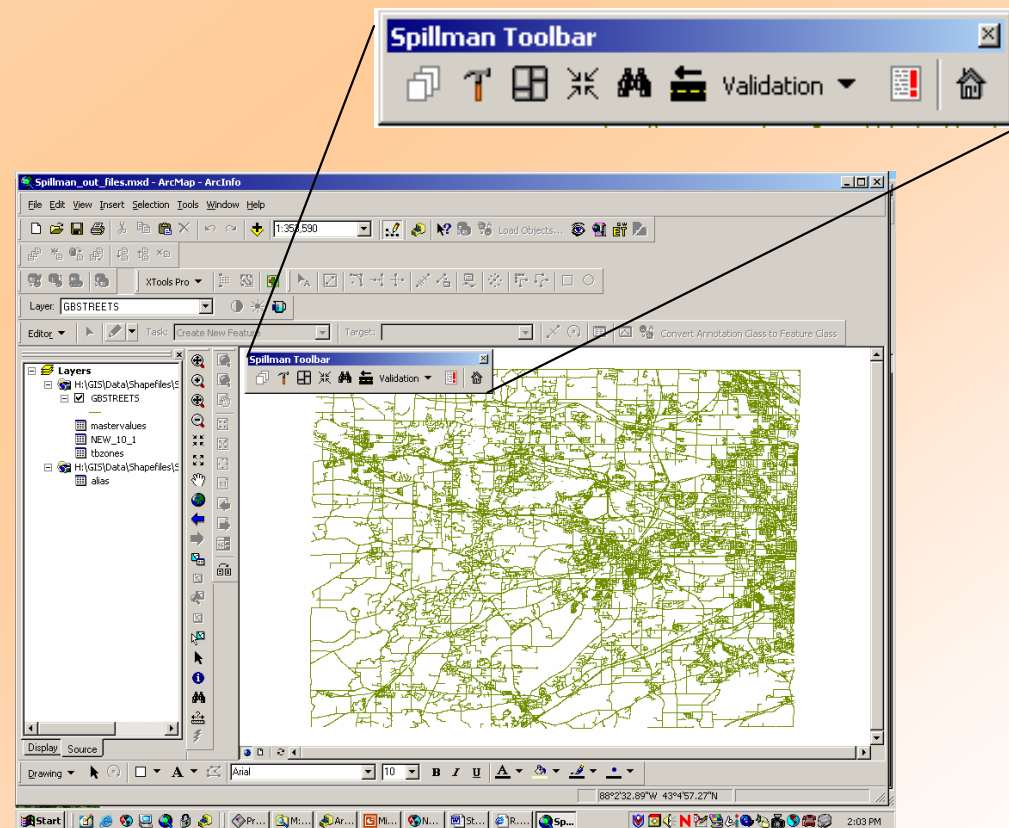
- ✚ Duplicates segments where needed
- ✚ Builds alias file for input to Spillman processing
- ✚ Projects from SPCS to Lat/Lon
- ✚ Exports to .shp for input to Spillman processing

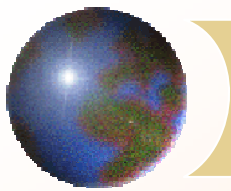




*Not so cool tools**

- ➊ Provided by Dispatch software Company (Spillman Technologies, Inc.)
- ➋ Provide some data validation measures
- ➌ Create .out files for input to Dispatch System
- ➍ *Dependent on .shp files
- ➎ *Not ESRI 9.0 compliant
- ➏ *Not looking to GDB real soon





More not so cool tools...

❖ Dispatch software

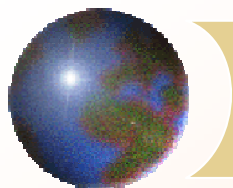
❖ Search for 355 HILL, Get:

❖ Search for 355 HILL ST, Get:

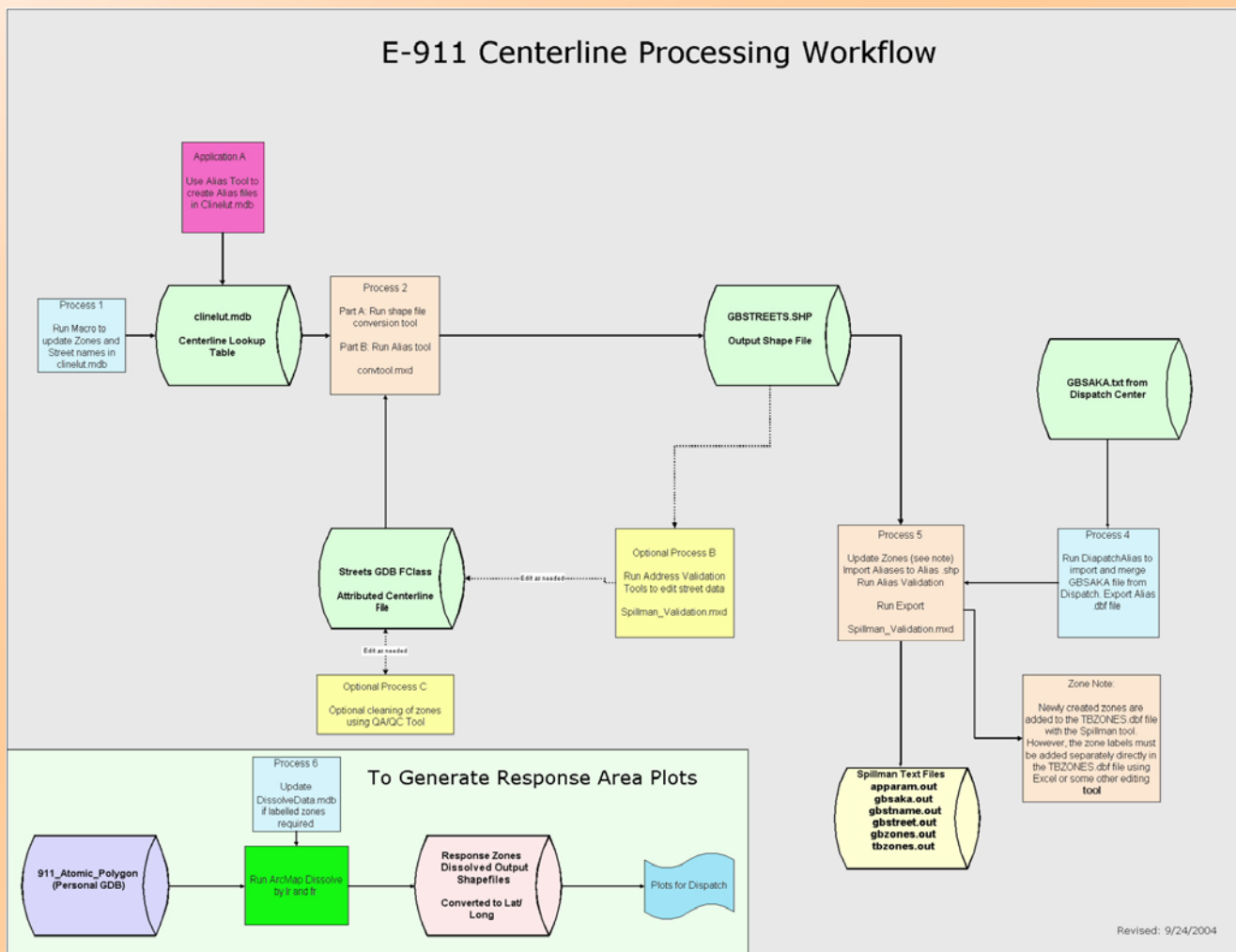
Geobase Address Selection		LZ	FZ	EZ	MZ
City	Addr: 355 HILL ST				
= HTL	355 HILL ST	HLL03	HLF02	HLF02	

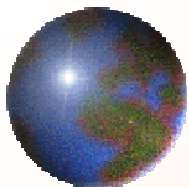
Alias & Soundex Search Ok Cancel





911 Process Workflow





Show me the map...Hmmm

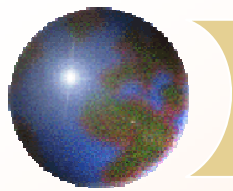
```

gbstreetcopy - Notepad
File Edit Format Help
11076 OCW -141405 95914 35100 -143007 95507 35179 LAKE DR |B| N52W
11077 OKA -124544 87532 34400 -128927 89789 34498 WISCONSIN AV |E| N49W
11078 NSH -124544 87532 34350 -124071 87273 34398 WISCONSIN AV |E| N49W
11079 OKA -135137 92420 34800 -135477 92608 34839 WISCONSIN AV |B| N50W
11080 OKA -132708 91018 34691 -134977 92331 34799 WISCONSIN AV |B| N50W
11081 OKA -134977 92331 34851 -135137 92420 34851 WISCONSIN AV |O| N50W
11082 OCW -127789 56065 30001 -126513 59884 32999 N CEDAR RIDGE RD |B|
11083 OCW -129021 86330 4601 -129112 87459 4699 N SAWYER RD |B|
11084 OCW -129021 86330 4600 -128935 87462 4694 N SAWYER RD |E|
11085 NSH -119145 85214 4700 -119088 86060 4799 N JAECKLES DR |B|
11086 NSH -119088 86060 4800 -119069 87119 4899 N JAECKLES DR |B|
11087 OCW -139293 50774 2700 -136245 50822 2999 INTERLAKEN DR |B|
11088 OCW -133931 78694 4400 -128978 78645 4499 BUCHANAN RD |B|
11089 OCW -128978 78514 4351 -128978 78579 4353 N SAWYER RD |O|
11090 NSH -128978 78514 4350 -128978 78579 4352 N SAWYER RD |E|
11091 OCW -13293 109841 6600 -128978 78645 4357 WISCONSIN AV |B|
11092 NSH -128978 78579 4354 -128978 78645 4356 N SAWYER RD |E|
11093 HTL -73551 158978 8700 -76182 159361 8799 HY 83 |B| W317N
11094 HTL -74142 118467 31800 -79886 118187 31999 CTY TK K |B|
11095 DEL -109024 58142 271 -107657 59784 299 MULBERRY DR |B|
11096 DEL -107657 59784 300 -104249 59312 299 MULBERRY DR |B|
11097A NSH -98961 75541 33001 -100310 75858 33099 NEPTUNE BIGHT |O| N41W
11097B NSH -98961 75541 32000 -100310 75858 33098 NEPTUNE BIGHT |E| N42W
11098 NSH -101957 77409 4200 -102312 78409 4399 GLEN PARK CIR |B| W330N
11099 OKA -136854 93259 34900 -138948 92724 34999 WISCONSIN AV |B| N51W
11100 OCW -119848 119890 6600 -117758 121182 6699 TIMBERLINE RD |B| W340N
11101 OCW -110064 120594 6600 -109611 121977 6699 PRAIRIEVIEW CT |B| W336S
11102 NSH -94439 97116 5400 -93737 98430 5435 N PAULINES WOODS RD |B|
11103 NSH -93737 98430 5436 -91992 98698 5499 N PAULINES WOODS RD |B|
11104 OCW -134040 109749 6000 -135293 109841 6049 CALIFORNIA AV |B| W348N
11105 OCW -119848 119890 6600 -135293 109841 6049 CALIFORNIA AV |B| W348N
11106 OCW -97706 141155 7775 -97680 142795 7787 WEST SHORE DR |O| W329N
11107 HTL -97706 141155 7774 -97680 142795 7788 WEST SHORE DR |E| W329N
11108 OCW -97680 142795 7791 -97680 145315 7899 WEST SHORE DR |O| W329N
11109 HTL -97680 142795 7790 -97630 145315 7898 WEST SHORE DR |E| W329N
11110 OCW -205388 131660 38401 -209328 131791 38599 LANG RD |O| N71W
11110B OCW -205388 131660 38400 -209328 131791 38598 LANG RD |E| N72W
11111A OCW -209328 131791 38601 -217614 132025 39021 LANG RD |O| N71W
11111B OCW -209328 131791 38600 -217614 132025 39022 LANG RD |E| N72W
11112 NSH -99813 97515 5360 -99754 110022 5399 CTY TK G |B|
11113A NSH -93044 80874 0 -95303 80457 0 WATERTOWN PLANK RD |E|
11113B NSH -95303 80457 32600 -93044 80874 32738 WATERTOWN PLANK RD |O| N44W
11114A NSH -95303 80457 0 -97235 80115 0 WATERTOWN PLANK RD |E|
11114B NSH -97235 80115 32740 -95303 80457 32860 WATERTOWN PLANK RD |O| N44W
11115A HTL -24754 86249 101 -24772 86929 199 CRYSTAL DR |O|
11115B HTL -24754 86249 100 -24772 86929 148 CRYSTAL DR |E|
11116A HTL -24772 86929 101 -24745 87469 199 CRYSTAL DR |O|
11116B HTL -24772 86929 150 -24745 87469 198 CRYSTAL DR |E|
11117 HTL -18856 136857 29000 -21282 136886 29139 SUSSEX RD |B| N76W
11118 HTL -21282 136886 29140 -21364 136909 29249 SUSSEX RD |B| N76W
11119 HTL -20143 136623 29076 -21301 136639 29199 PLEDL LA |B| W
11120A HTL -14814 136836 28801 -17441 136831 28879 SUSSEX RD |O| N75W
11120B HTL -14814 136836 28800 -17441 136831 28878 SUSSEX RD |E| N76W
11121A HTL -17441 136831 28881 -18794 136857 28899 SUSSEX RD |O| N75W
11121B HTL -17441 136831 28880 -18794 136857 28899 SUSSEX RD |E| N76W
11122A OCW -185132 61134 3301 -184848 61599 3309 N SILVER LAKE RD |O|
11122B OCW -185132 61134 3300 -184848 61599 3322 N SILVER LAKE RD |E|
11123A OCW -184848 61599 3311 -184665 62677 3389 N SILVER LAKE RD |O|
11123B OCW -184848 61599 3324 -184665 62677 3390 N SILVER LAKE RD |E|
11124 OCW -16873 45201 24321 -16873 46045 2441 N SUMMIT AV |B|
11125 OCW -160133 70051 36100 -162305 68630 36250 N LALUMIERE RD |B|
11126 OCW -162305 68630 36251 -163883 68444 36299 N LALUMIERE RD |B|
11127 NSH -110603 64603 33500 -119463 62781 33511 MISSION AV |B| N35W
11128 PEW -32340 41604 2200 -31873 42548 2299 MAPLE AV |B| W304N
11129 PEW -31873 42548 2300 -31521 4285 2301 MAPLE AV |B| W304N
11130 HTL -18673 98610 1500 -15583 99014 1699 E BRISTLECONE DR |B|
11131 HTL 1284 138714 7700 1331 139720 7750 CENTER OAK RD |B| W280N

```

Spillman .out file sample



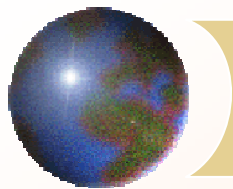


Phase II Compliance

✿ **E-Mail from Dispatch Center on 7/23/04**

"Today at 9:39am, we received the State's *first wireless 9-1-1 Phase II call* from US Cellular. The x/y coordinates transferred from the Positron 9-1-1 phone system to the Spillman CAD system and then plotted on the map, and we were within a couple of meters of where the caller was. This process is an example of a team effort and I really appreciated all the work from the WCC staff, SBC, Positron, US Cellular, Waukesha County Staff, and the Wisconsin Public Service Commission in making this happen."





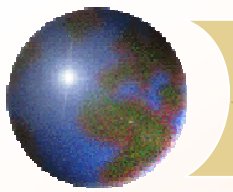
Phase II Compliance



Tuesday, October 5

Waukesha - Waukesha County became the first emergency dispatch center in Wisconsin to be able to locate 911 calls placed with cell phones. Advocates say they're afraid some counties, particularly rural ones, may never install the technology upgrades because of the high cost. In southeastern Wisconsin, cellular callers already make up half the 911 calls.

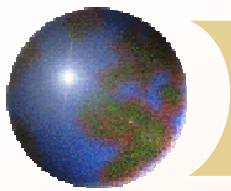




Summary and Suggestions

- ✿ "Go Live" for entire Co. is in mid Nov.
- ✿ Current address match rate is >97%
- ✿ Get good help
 - ▣ LIS staff
 - ▣ Interns/Part time staff
 - ▣ Consultants
- ✿ Keep the guys with the guns happy
- ✿ Commit yourself to a life of worry...

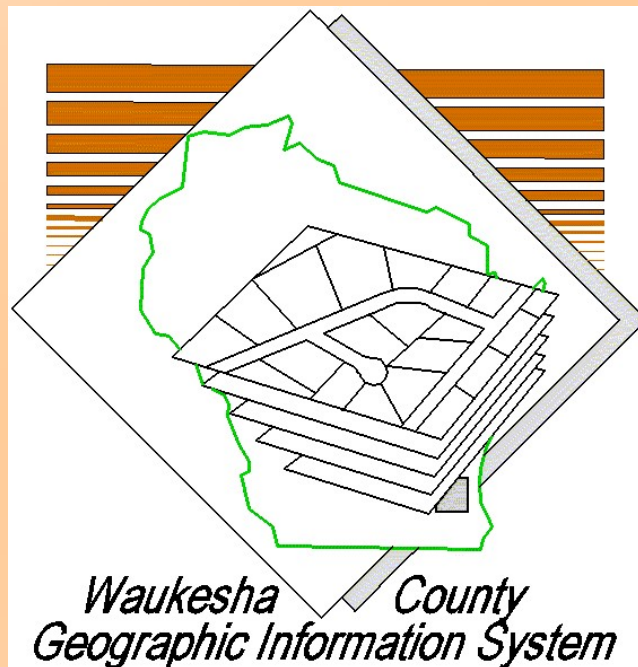




Questions?

Jlandwehr@waukeshacounty.gov

<http://www.waukeshacounty.gov/landandparks/lisd/>



Thank You.



ESRI Wisconsin
Users Group