

STAKEHOLDER MEETING #1

KINGWOOD AREA MOBILITY STUDY

LAKE HOUSTON REDEVELOPMENT AUTHORITY (TIRZ # 10)

Overview

Lake Houston Redevelopment Authority authorized Gunda Corporation, in February 2014, to conduct a Mobility Study for the Kingwood Area.

The purpose of the Mobility Study is to develop a strategy to address Kingwood area transportation needs based on existing deficiencies and future growth. The Study was undertaken to improve the overall quality of life for Kingwood area citizens.

Goals

1. Obtain community input
2. Improve mobility – short and long term
3. Maintain same or better quality of life
4. Identify funding sources and educate public regarding funding sources
5. Plan for future
6. Safety
7. Possible transit for aging population
8. Pedestrian facilities as part of Street Improvements
9. Public transportation
10. Trolley system – not typical METRO bus
11. Quick fixes

Measures of Effectiveness

1. Less congestion
2. Decrease delay/travel time
3. Pedestrian safety/bicycle safety
4. Vehicular safety
5. Cost effectiveness
6. Schedule
7. Regulatory impacts
8. Environmental impacts including Tree Impacts

Project Schedule

Project Start: February 2014

First Stakeholder Meeting: May 13, 2014

Second Stakeholder Meeting: Fall 2014

Draft Report: December 2014

Final Report: January 2015

Please e-mail your comments and suggestions to kingwoodmobility@gundacorp.com
Please provide input via the online survey at:



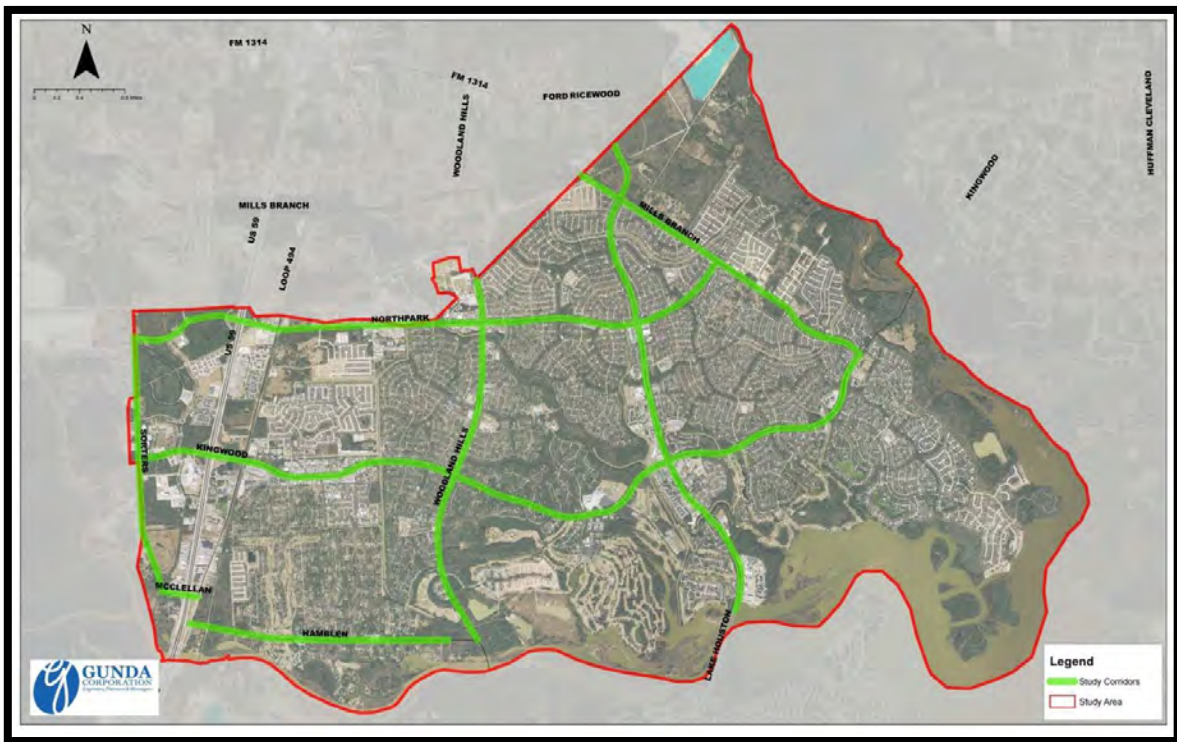
www.surveymonkey.com/s/kingwoodmobility



Study Process Flow Chart



Study Area



Please e-mail your comments and suggestions to kingwoodmobility@gundacorp.com
 Please provide input via the online survey at:

www.surveymonkey.com/s/kingwoodmobility

SURVEY

We would like your thoughts on the Kingwood Area Mobility Study.

Please fill out this questionnaire and return it to us today, or return via mail or email by May 20, 2014 to:

Kingwood Mobility Group
c/o Gunda Corporation
6161 Savoy, Suite 550
Houston, Texas 77036

or e-mail to kingwoodmobility@gundacorp.com

1. Which category best describes your interest?

- | | |
|---|---|
| <input type="checkbox"/> Local resident | <input type="checkbox"/> Developer |
| <input type="checkbox"/> Service business owner | <input type="checkbox"/> Worship Facility |
| <input type="checkbox"/> Office business owner | <input type="checkbox"/> School Official |
| <input type="checkbox"/> Public Official | <input type="checkbox"/> Work Here |
| <input type="checkbox"/> Retail business owner | <input type="checkbox"/> Other _____ |

2. Which locations or intersections in Kingwood do you think have the most traffic issues?

3. What transportation-related issues in the Kingwood area concern you the most?

4. Other than for recreation, do you or your employees/students walk to work/school in Kingwood?

Always _____ Never _____ Occasionally _____

5. Would you walk if it was more convenient? Yes _____ No _____

6. What areas of Kingwood do you walk along or across? What is your destination?

7. Other than for recreation, do you or your employees/students bicycle to work/school in Kingwood?

Always _____ Never _____ Occasionally _____

8. Would you bicycle in Kingwood if it was more convenient? Yes _____ No _____

9. Where do you start and end your bike ride? _____



10. What do you think should be done to roadways in the Kingwood area to improve mobility?

11. Are there any traffic-related safety concerns in Kingwood? Do you have suggestions for these issues?

12. Are you willing to sacrifice trees for relief of traffic congestion? Please check one.

- I am willing to sacrifice trees along major thoroughfares for travel time savings.
- I am willing to sacrifice 25% of trees along major thoroughfares for a travel time savings of 20 minutes every day.
- I am willing to sacrifice 10% of trees along major thoroughfares for a travel time savings of 10 minutes every day.
- I am willing to sacrifice some trees as long as an equal number of trees are planted elsewhere (reforestation) while achieving travel time savings of 10 minutes every day.
- I do not want to sacrifice a single tree, even if it means travel times continue to increase.
- Other (Please Explain) _____

13. Do you have any other general comments on the information presented at the Stakeholder Meeting?

14. Did we cover all the areas of mobility concerns? If not, please give us the areas you would like to see studied. _____

If you have not already provided this information, please give us your contact details so that we can notify you of future Kingwood Mobility Study meetings:

Name _____

Business or Organization (if appropriate) _____

Address _____

City, State, Zip code _____

Email address _____



Kingwood Area Mobility Study

Lake Houston Redevelopment Authority
(TIRZ #10)



Stakeholder Meeting #1
Date: May 13, 2014



Opening Remarks

- Council Member Dave Martin
- Steering Committee Chairman



Goals & Measures of Effectiveness (MOE's)

GOALS

- Obtain community input
- Improve mobility – short and long term
- Maintain same or better quality of life
- Identify funding sources
 - Educate public regarding funding sources
- Plan for future
- Safety
- Possible transit for aging population
- Pedestrian facilities as part of Street Improvements
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MOE'S

- Less congestion
- Decrease delay/travel time
- Pedestrian safety/bicycle safety
- Vehicular safety
- Cost effectiveness
- Schedule
- Regulatory impacts
- Environmental impacts including Tree Impacts



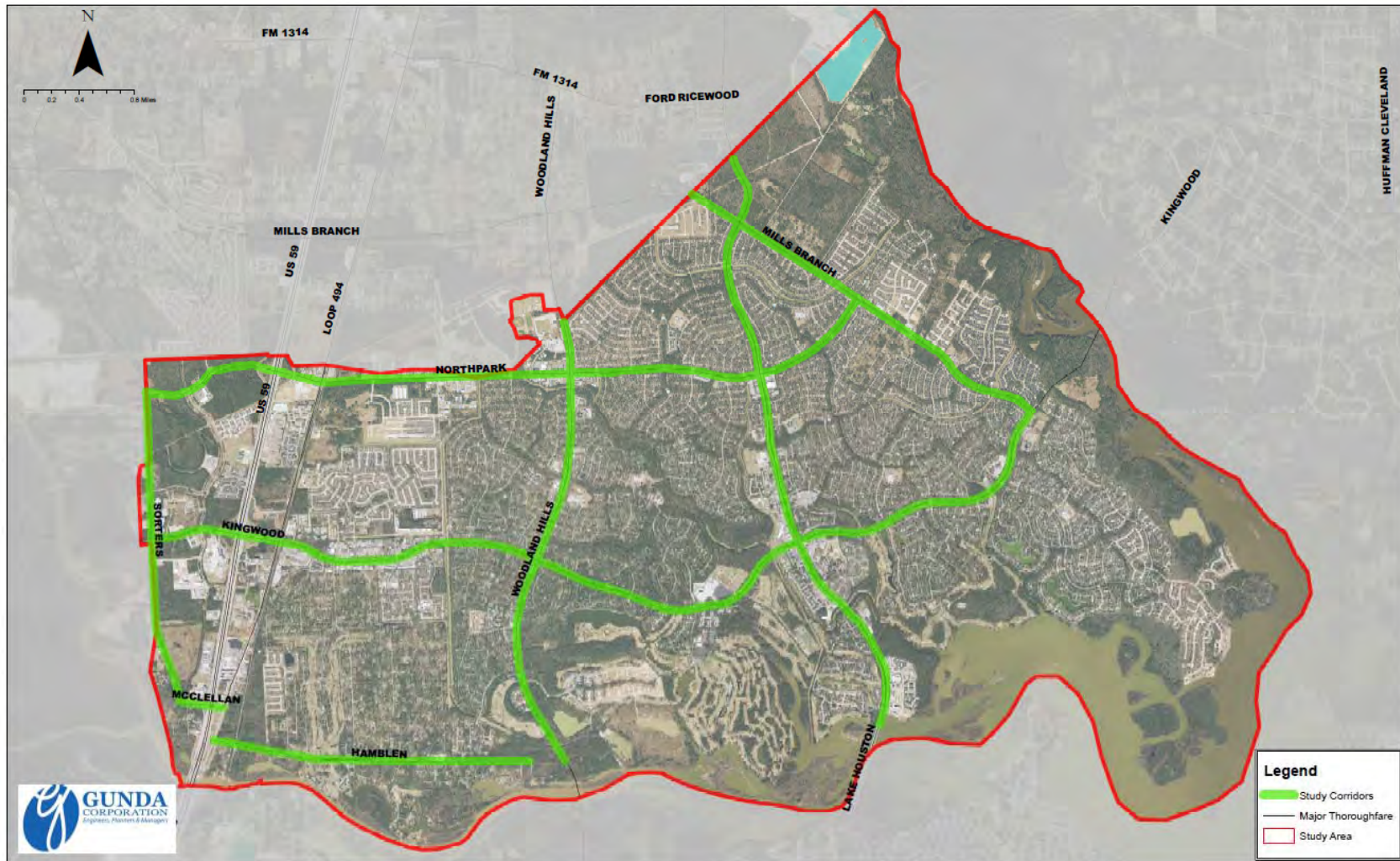
Data Collection

- Available traffic data from City of Houston
- Signal timing information
- Crash Data
- Planned/scheduled/funded improvements
- Known developments
- Demographics
- Citizen Concerns



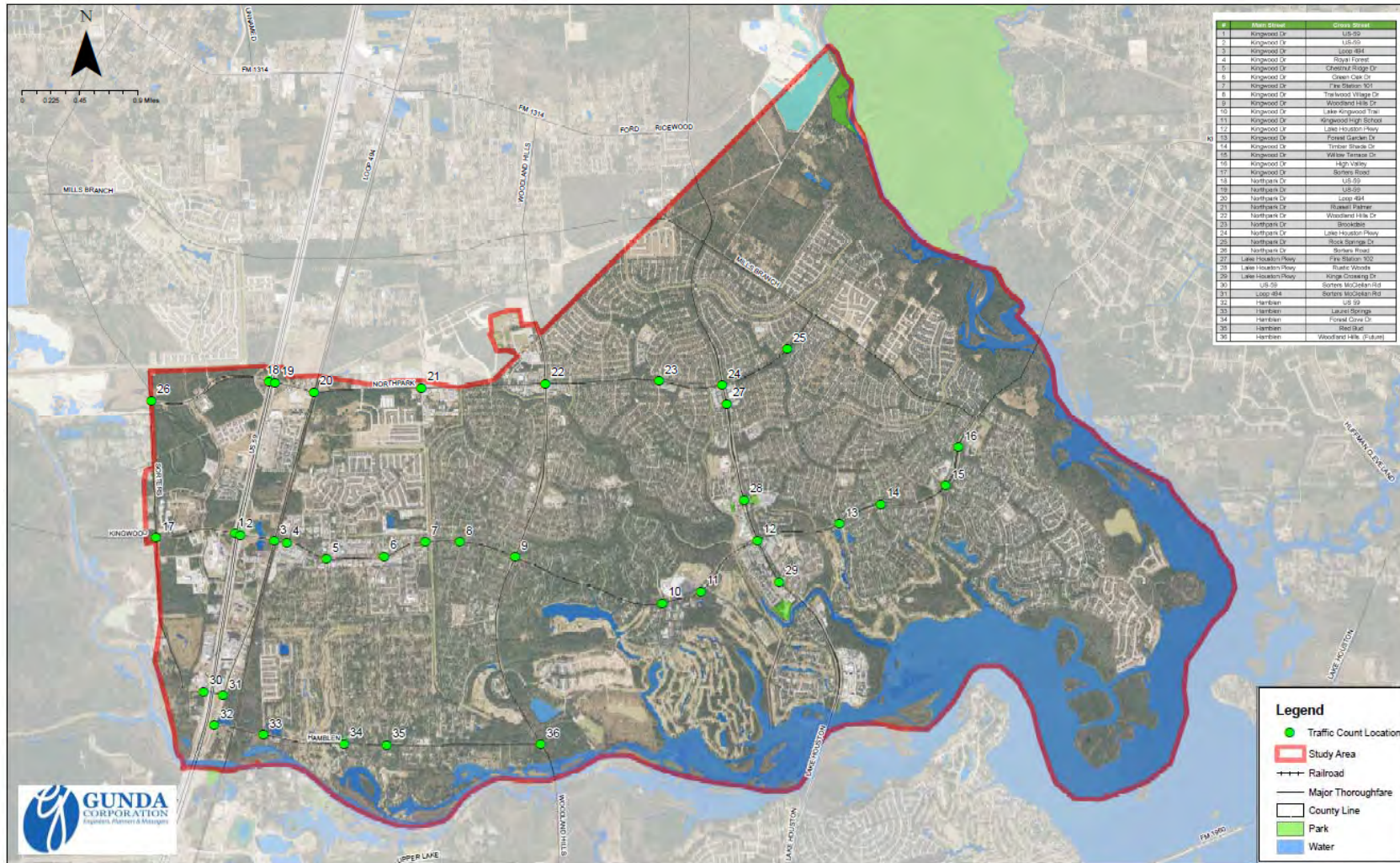
Study Area

Study Corridors Map
Lake Houston/Kingwood Area Mobility Study



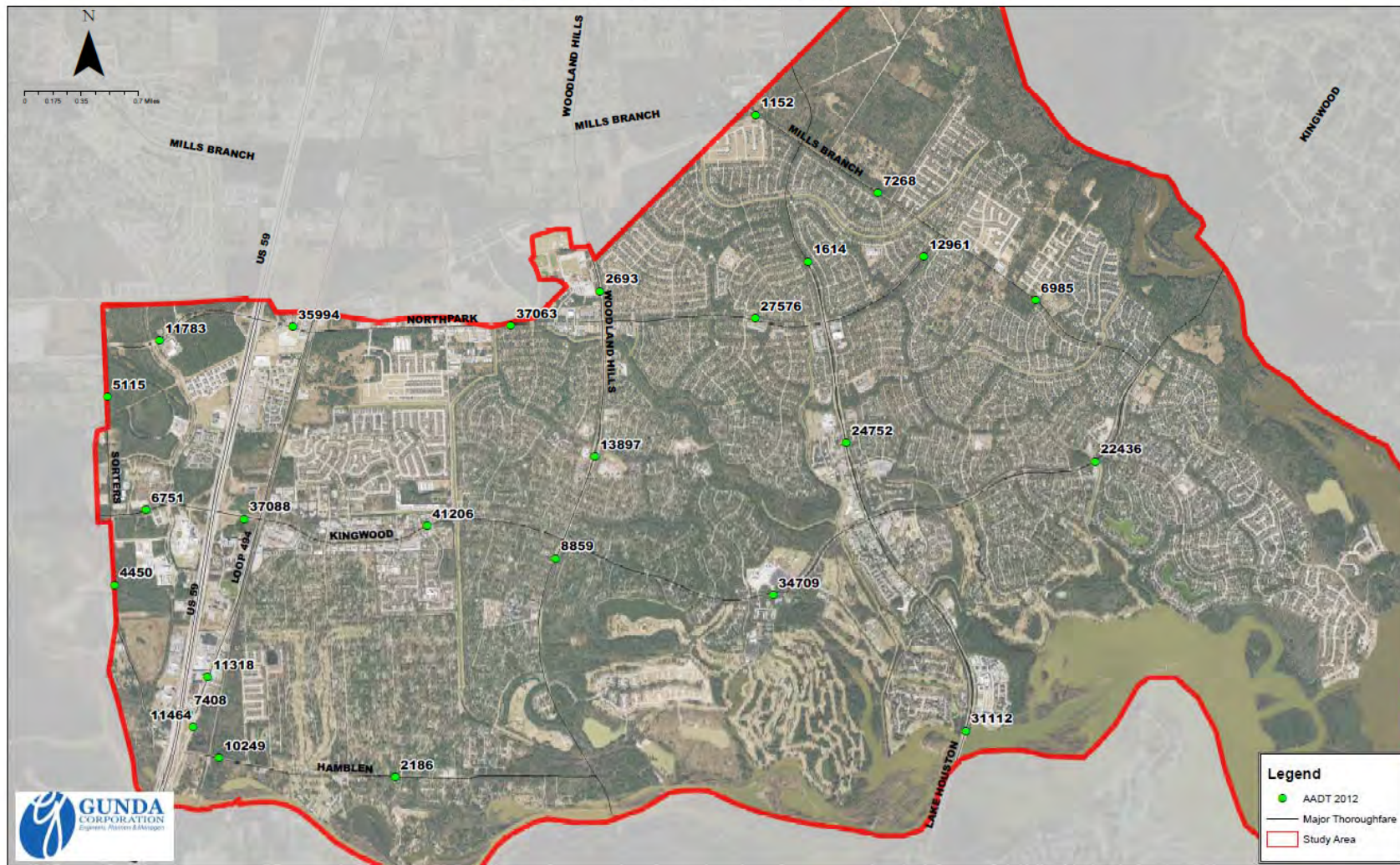
Study Intersections

Traffic Count Locations
Lake Houston/Kingwood Area Mobility Study



Available Traffic Data from City of Houston

Annual Average Daily Traffic (AADT) 2012 Lake Houston/Kingwood Area Mobility Study



Peak Hour Counts

Kingwood Dr. @ Lake Houston Pkwy



Signal Timing

1125 - Northpark @ Woodland Hills [ITS 340] Page 1
March 19, 2014

Control Table Info

Description	Northpark @ Woodland Hills
Created By	OTSI
Created On	08/20/09 09:36:31
Modified By	unknown
Modified On	06/25/10 10:24:05

NextPhase 1.7.5 Control Params

Control Mode	scheduler
Manual Plan	2: 144' AM Peak
Free Plan	1: 100' Off Peak
Default Schedule	1: Kingwood Schedule

Schedule Table Info

Table	Description	Created By	Created On	Modified By	Modified On
1	Kingwood Schedule trf_ctrl		08/23/01 15:52:32	unknown	04/06/11 13:19:01

Schedule Table 1 Params

Event	Enable	Hour	Minute	Day Of Week							CtrMode	Plan
				Su	Mo	Tu	We	Th	Fr	Sa		
1	X	0	0	X	X	X	X	X	X	X	sched	1
2	X	5	0		X	X	X	X	X		sched	2
3	X	9	0		X	X	X	X	X		sched	1
4	X	9	0	X						X	sched	4
5	X	11	0		X	X	X	X	X		sched	4
6	X	14	30		X	X	X	X	X		sched	3
7	X	19	30	X	X	X	X	X	X	X	sched	1
8		0	0								sched	0
9		0	0								sched	0
10		0	0								sched	0
11		0	0								sched	0
12		0	0								sched	0
13		0	0								sched	0
14		0	0								sched	0
15		0	0								sched	0
16		0	0								sched	0
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25		0	0								sched	0
26		0	0								sched	0
27		0	0								sched	0
28		0	0								sched	0
29		0	0								sched	0
30		0	0								sched	0
31		0	0								sched	0
32		0	0								sched	0
33		0	0								sched	0
34		0	0								sched	0

NextEdit



Crash Data

- H-GAC Crash Data from 2011 to 2013
- In 2013 - 3 fatal crashes in the study area
- Within the study area - a total of 626 crashes in 2013



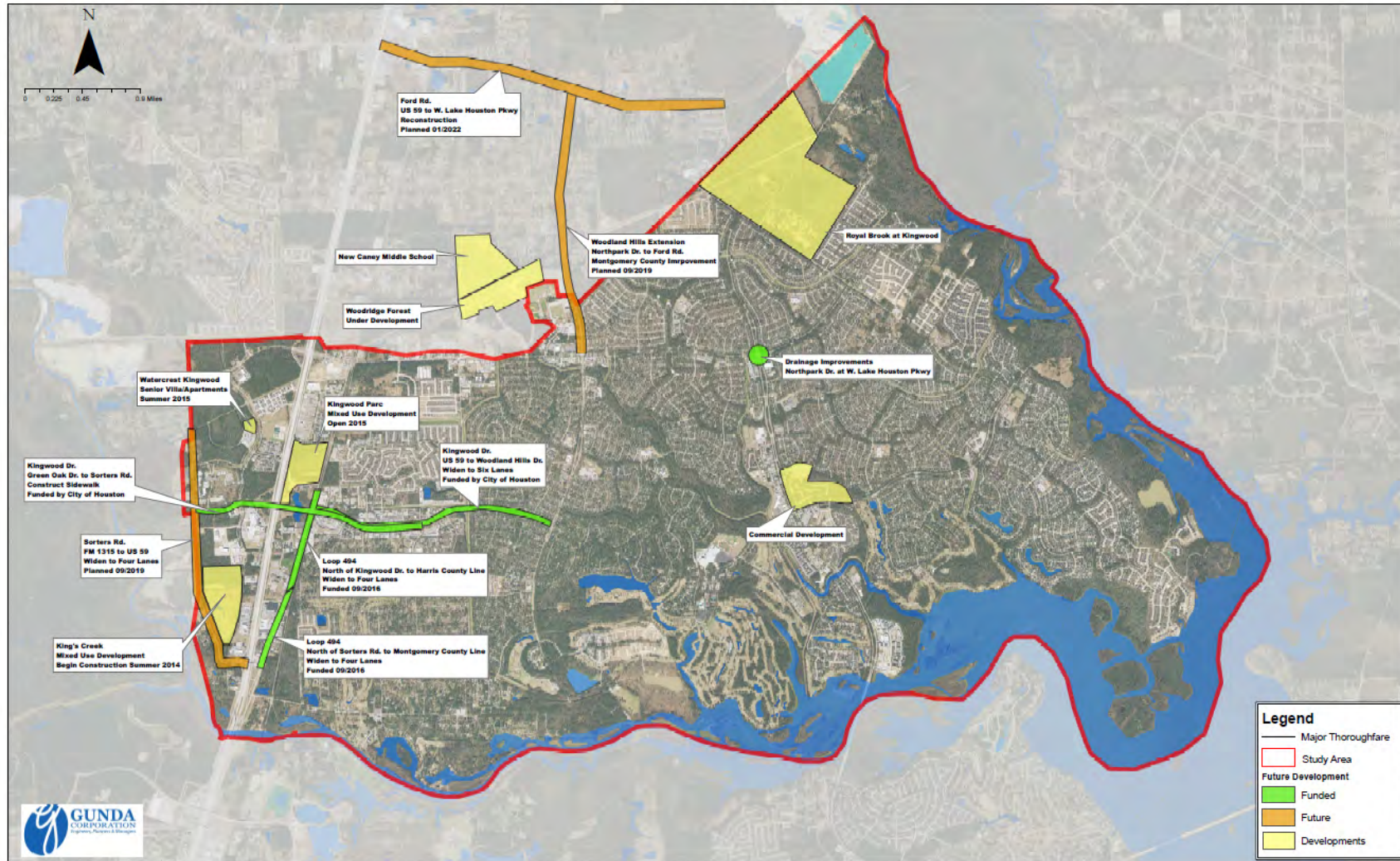
Crash Data

Lake Houston/Kingwood Area Mobility Study
2011-2013 Crash Location Map



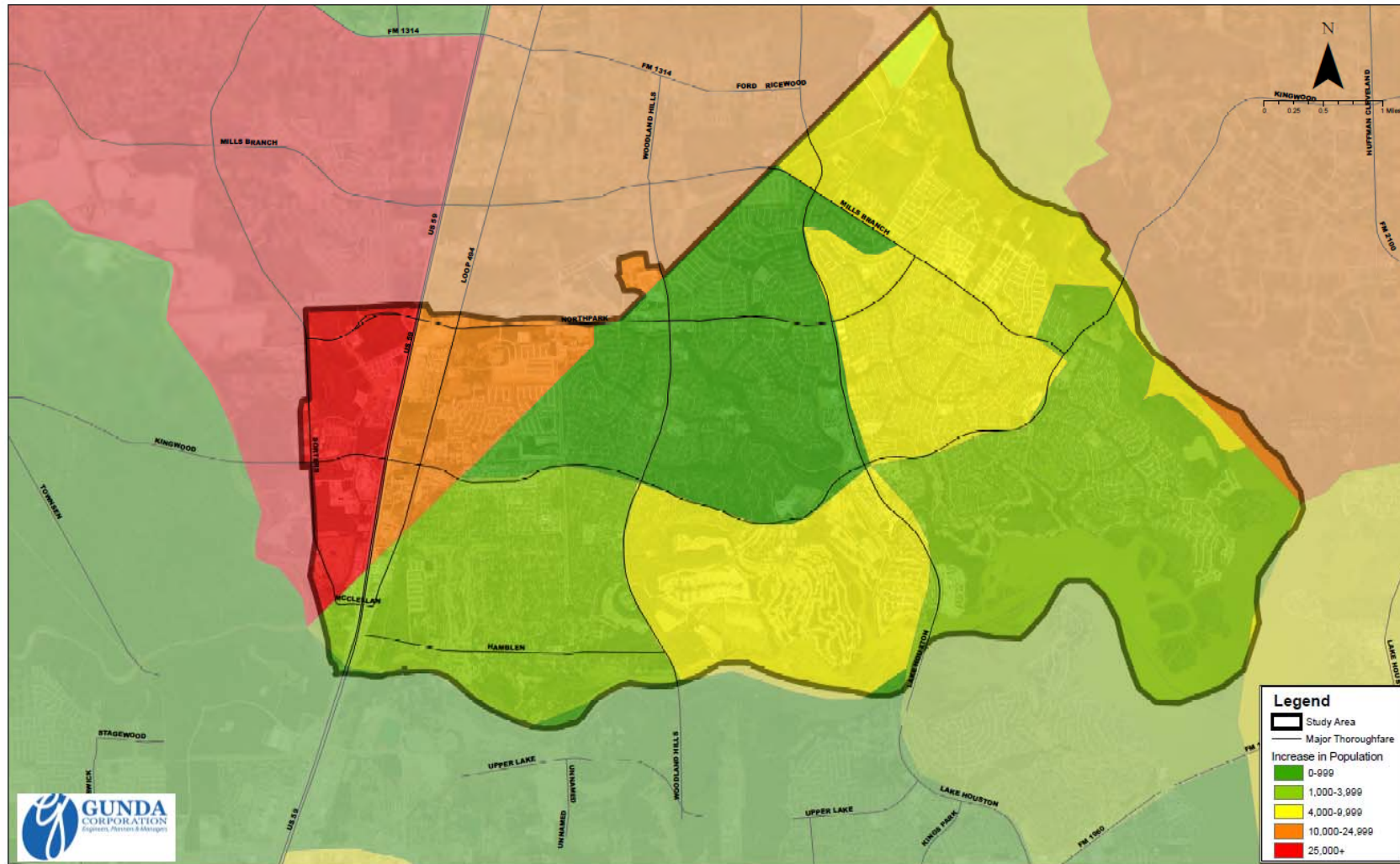
Planned Improvements & Known Developments

Planned Improvements & Known Development Lake Houston/Kingwood Area Mobility Study



Demographics

Increase in Population (2014-2035) Lake Houston/Kingwood Area Mobility Study

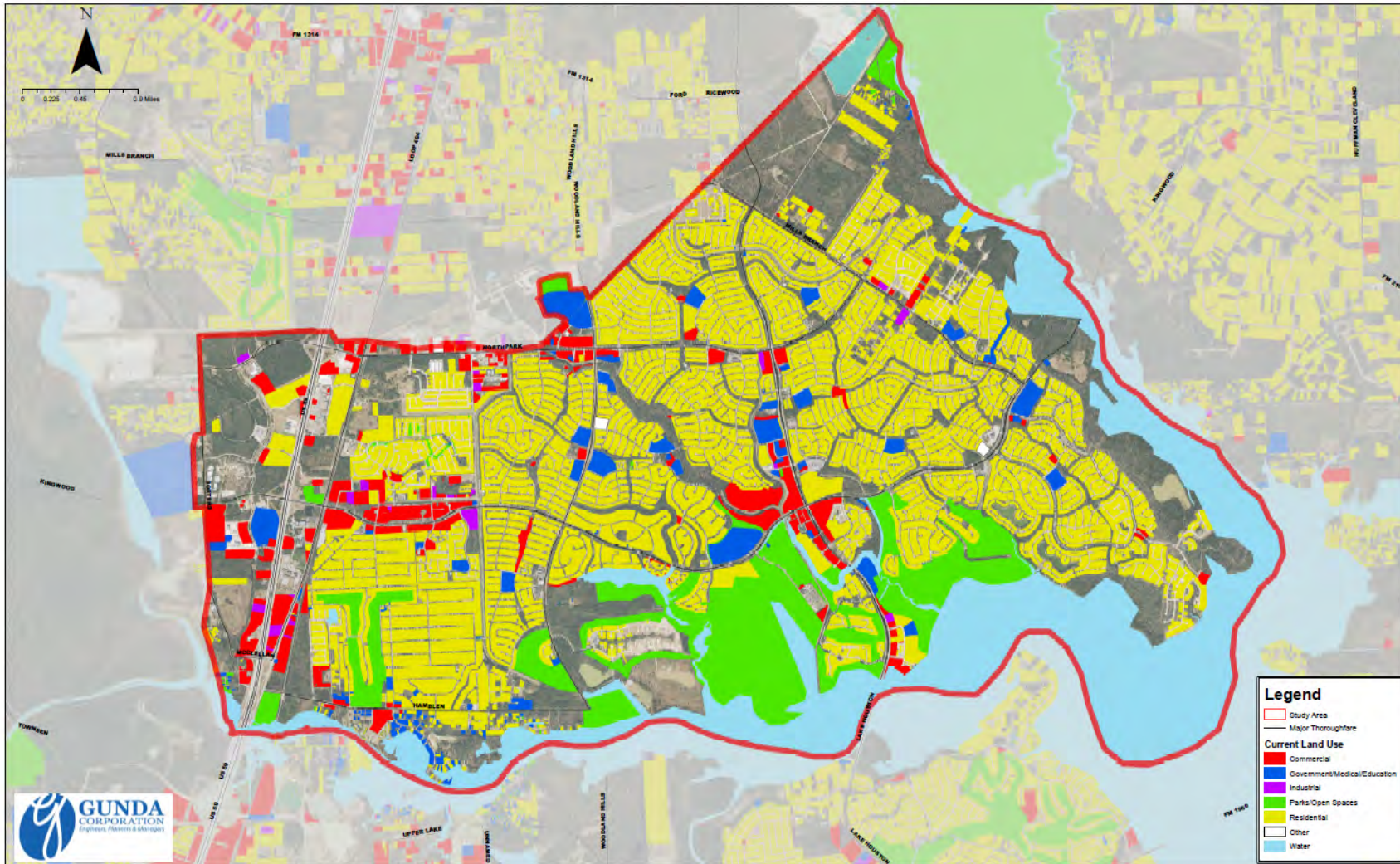


Source: Houston-Galveston Area Council



Land Use Map

Current Land Use Map
Lake Houston/Kingwood Area Mobility Study



Citizen Concerns

“Eliminate median openings at business driveways”

“Widening will create bottlenecks”

“Improve signal timings”

“Encourage Transit”

“Conceptual Studies are skeptical - many assumptions”

“Kingwood widening will change the Character and increase crime”

“Are travel time savings worth destroying trees”

“When did GUNDA collect traffic data?”

“Improvement alternatives at various locations along Kingwood and Northpark”

“Traffic signal at Northpark & Woodridge Pkwy/Hidden Pines Drive”

“Reversible lanes on Kingwood Drive”



Analysis

- Demographic Patterns
- Crash Analysis
- Synchro model
- Analysis findings
- Existing deficiencies
- 2035 No-Build conditions
- Pavement Condition Rating
- Flood Complaints



Demographic Patterns

- 2000 Census Data : 54,322
- 2010 Census Data: 63,653
- 2013 Projection: 66,626
- 2018 Projection: 74,051

- Average Household Size: 2.62

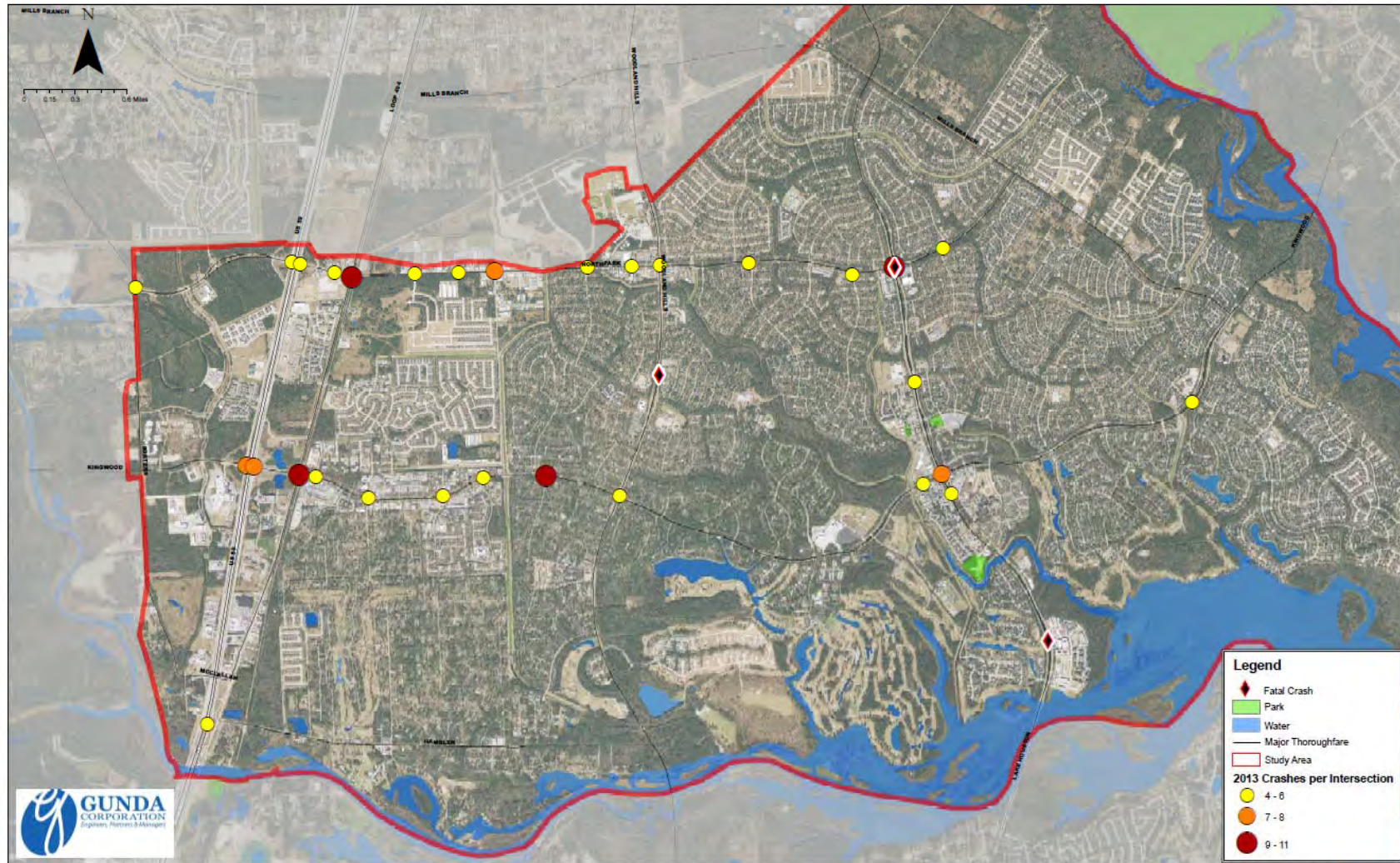


Source: Lake Houston Area Economic Development Partnership



Crash Map

2013 Crash Intensity Map
Lake Houston/Kingwood Area Mobility Study



Crash Rate

Crash Rate (R) is expressed as
Million Vehicle Miles Traveled (MVMT)

$$R = \frac{C \times 100,000,000}{V \times 365 \times N \times L}$$

R = Roadway crash rate for the road segment expressed as crashes per 100 million vehicle-miles of travel,

C = Total number of roadway crashes in the study period

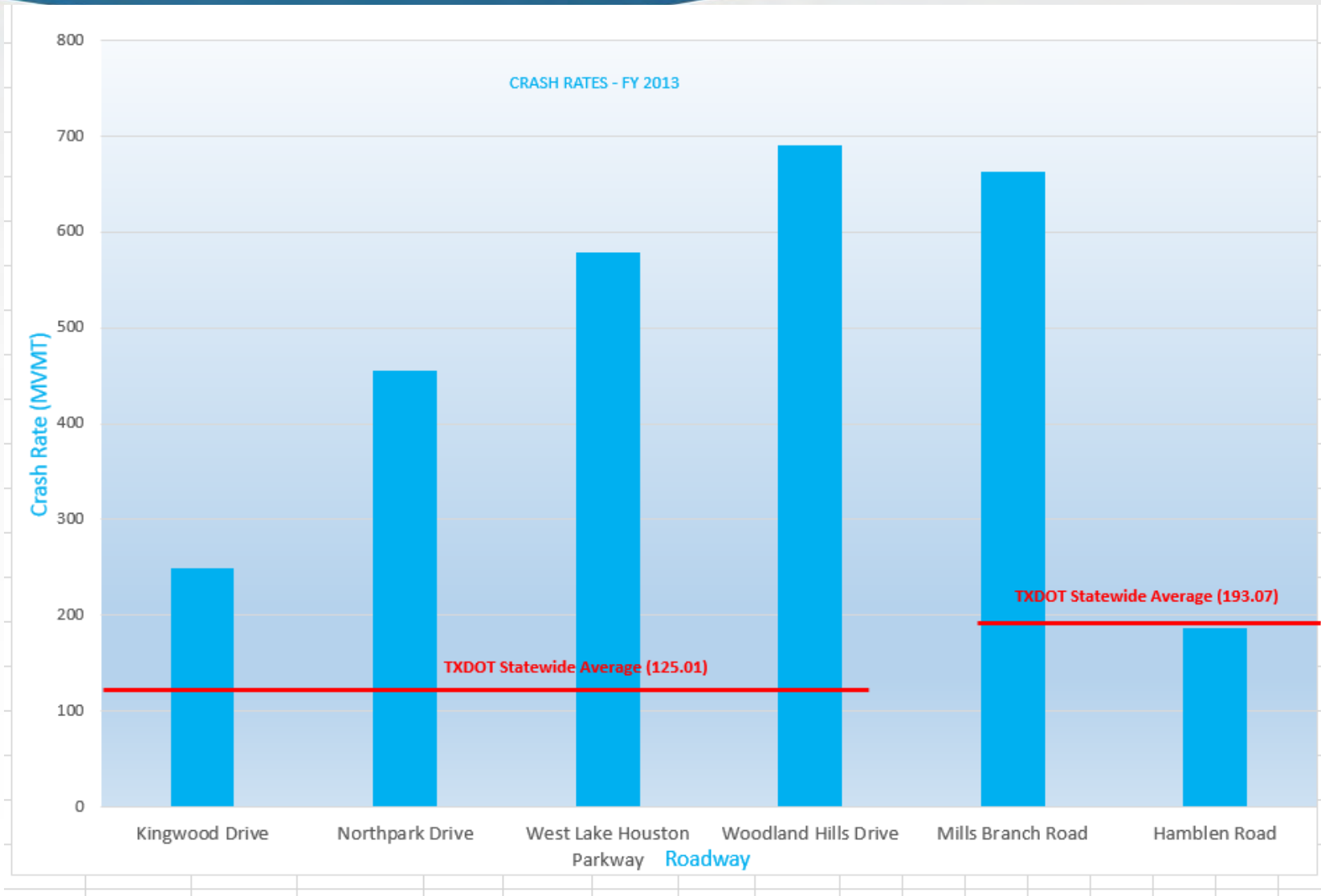
V = Traffic volumes Average Annual Daily Traffic (AADT)

L = Length of the roadway segment in miles

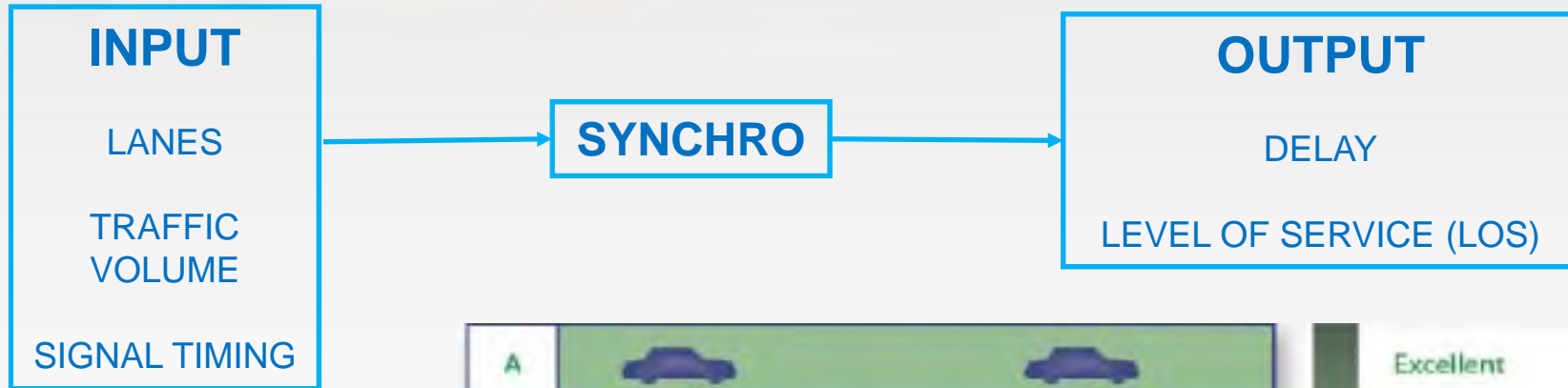
Roadway	Number of Crashes	Crash Rate per MVMT	Statewide Average
	C	R	
Kingwood Drive	200	249.73	125.01
Northpark Drive	212	454.49	125.01
West Lake Houston Parkway	82	578.63	125.01
Woodland Hills Drive	49	690.01	125.01
Mills Branch Road	50	662.78	193.07
Hamblen Road	14	187.12	193.07



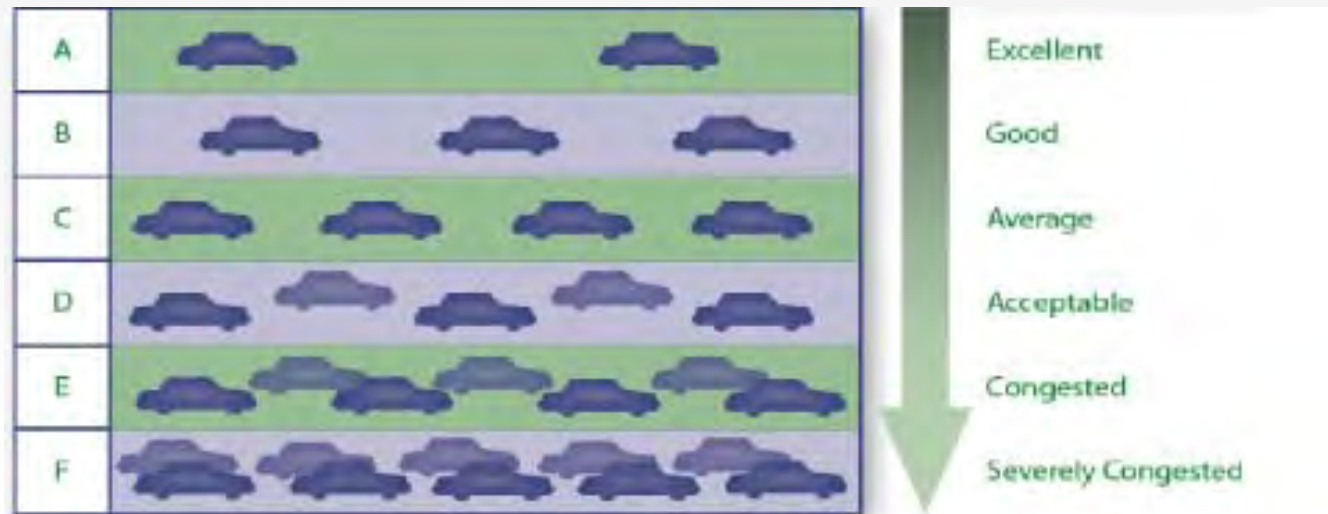
Crash Rate



Traffic Analysis

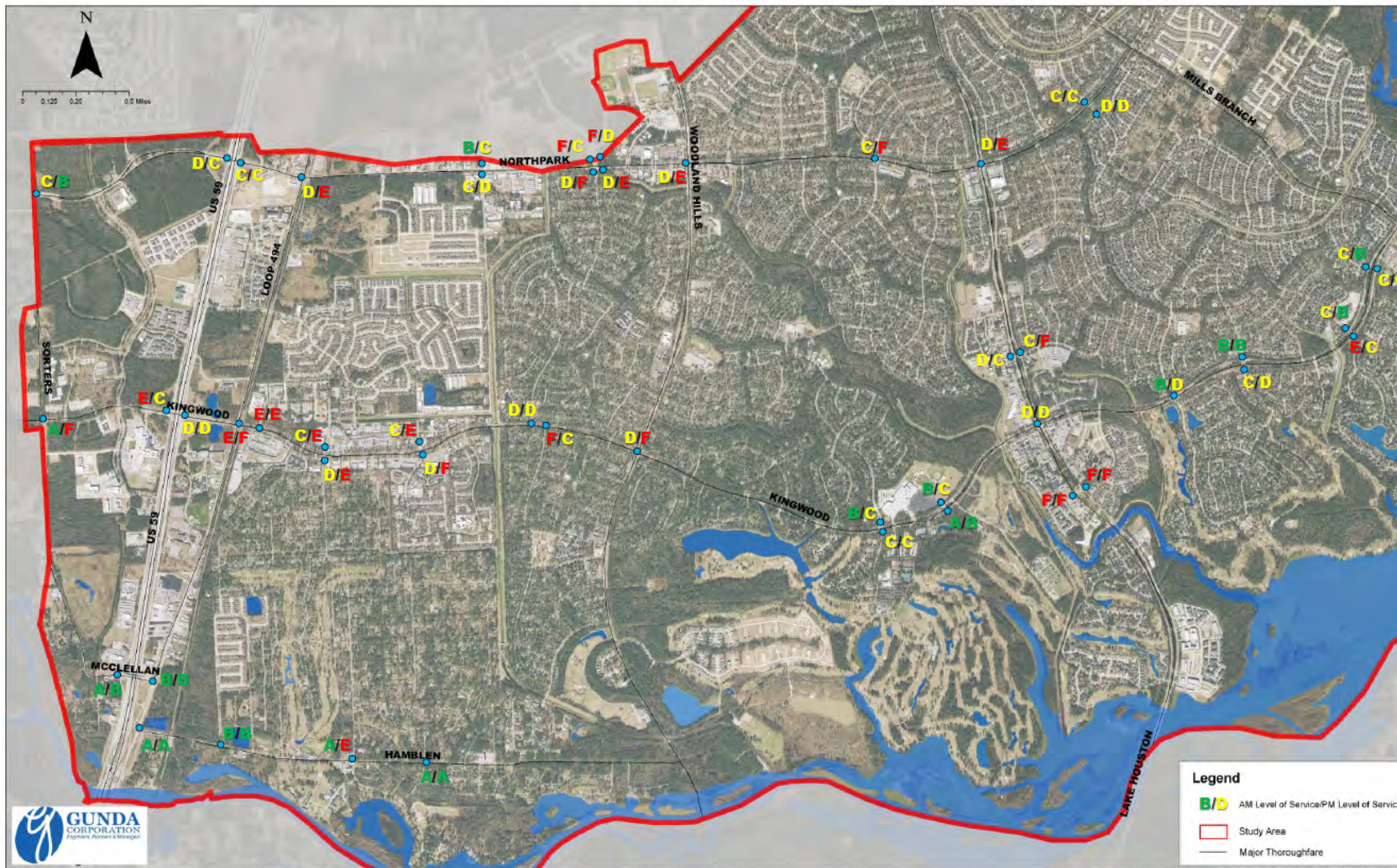


- A= Free flow
- B= Reasonably free flow
- C= Stable flow
- D= Approaching unstable flow
- E= Unstable flow
- F= Forced or breakdown flow



Analysis Findings and Deficiencies

2014 Intersection Level of Service (LOS) - AM/PM
Lake Houston/Kingwood Area Mobility Study



2035 – No Build Conditions

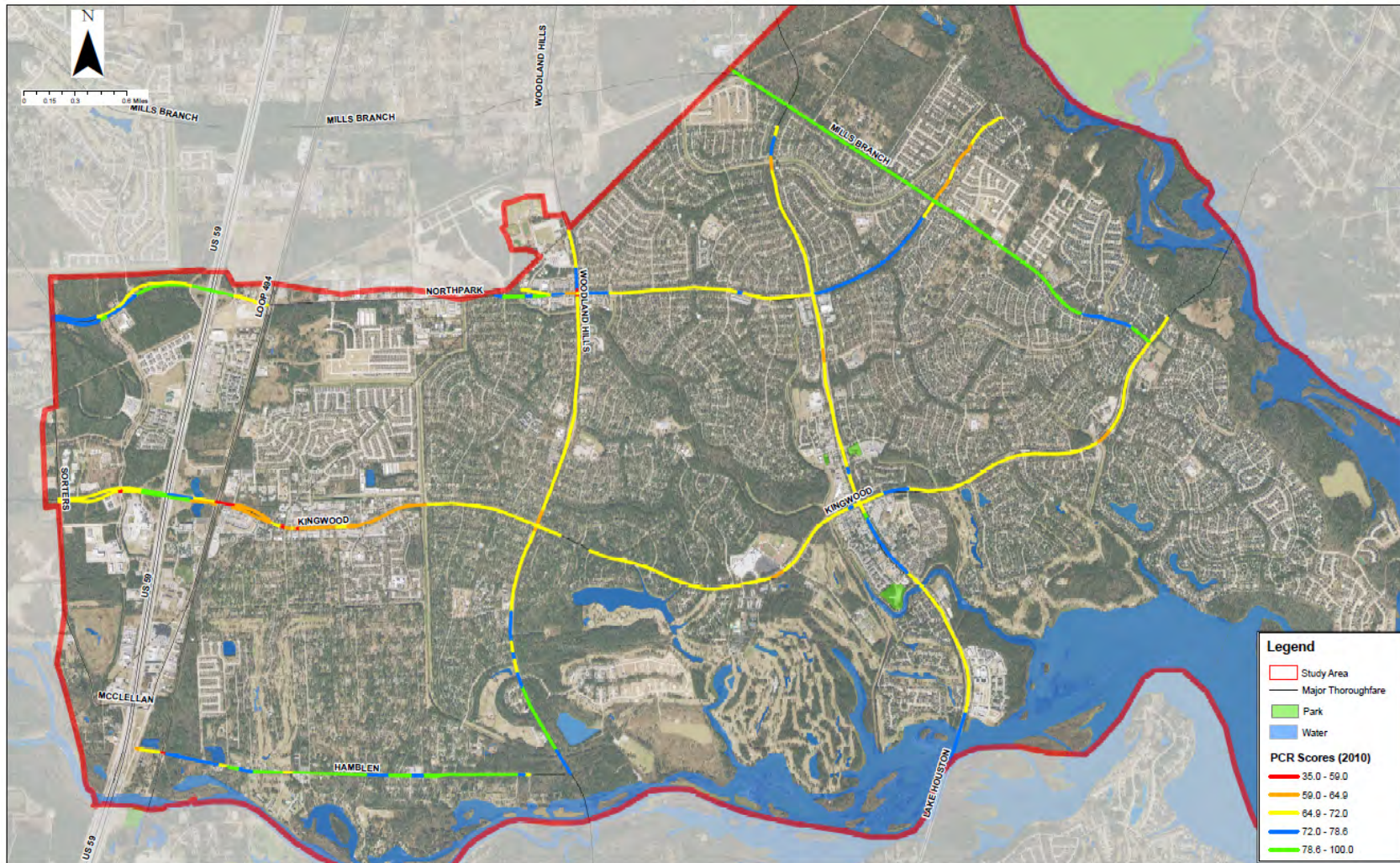
- Growth Rate: 2% per year

2035 Intersection Level of Service (LOS) - AM/PM
Lake Houston/Kingwood Area Mobility Study



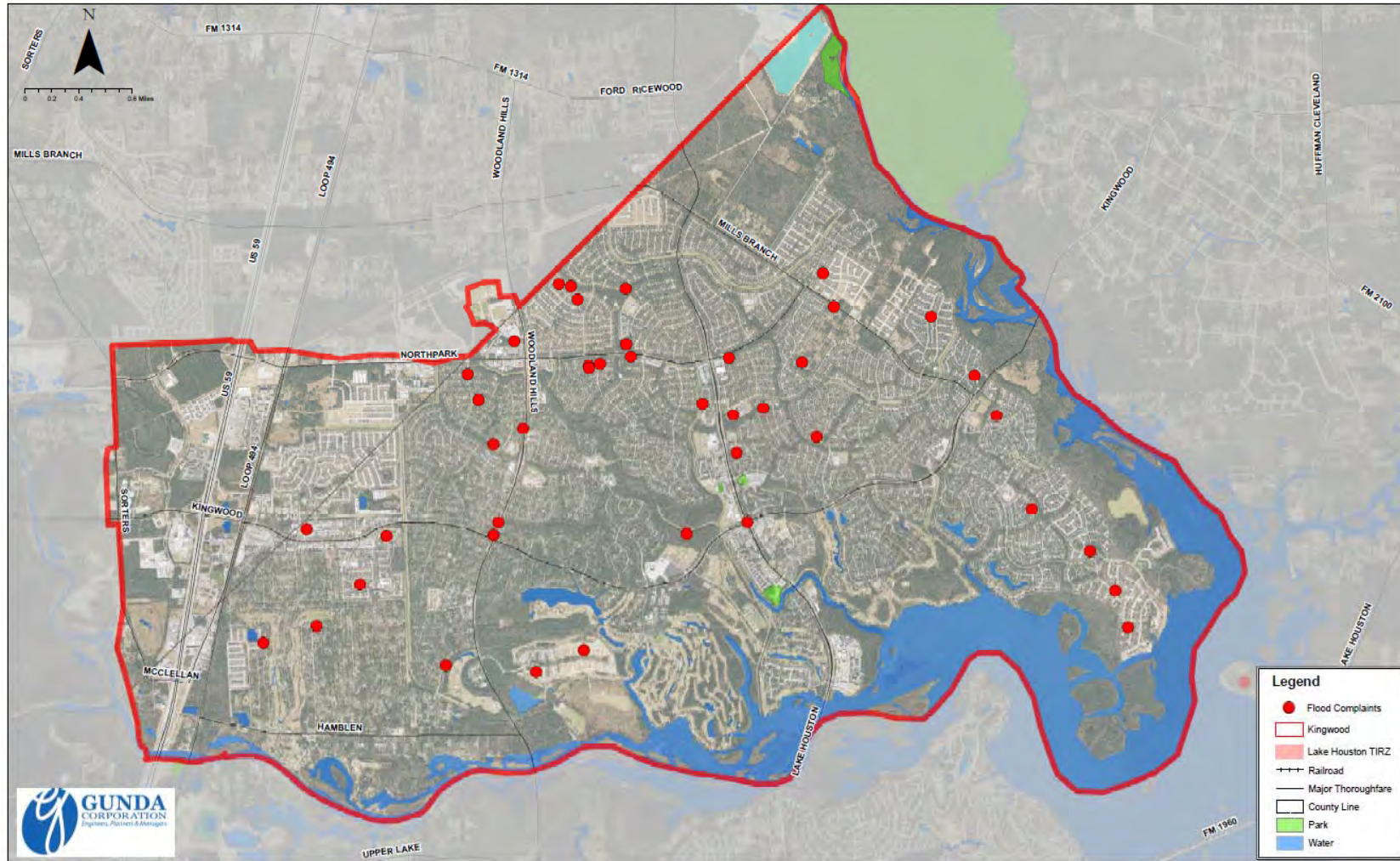
Pavement Condition Rating

Pavement Condition Rating (PCR) Scores Map (2010)
Lake Houston/Kingwood Area Mobility Study



Flooding Complaints

Flood Complaints Map (2002 - 2010)
Lake Houston/Kingwood Area Mobility Study



Next Steps

- Receive Public Input and Survey
- Future Conditions Analysis
- Next Stakeholder Meeting
 - ▶ Fall of 2014



Comments and Suggestions

Please submit your comments and Suggestions to:

kingwoodmobility@gundacorp.com

Also, please fill the survey form available at:

www.surveymonkey.com/s/kingwoodmobility



Sign-In Sheet
Kingwood Mobility Stakeholder Meeting #1
Tuesday, May 13, 2014

	<i>Name</i>	<i>Firm/Agency</i>
1	Kevin McManis	
2	Shirley Sellers	
3	Roger S.	
4	Carol & Fredy Samsulon	
5	Sjim & Emy Stewart	
6	Richard Lewis	
7	Randy Sufton	
8	Keith P.	
9	George Rustin	
10	Jerry Disenbery	
11	Tod David	
12	Heather Blake	
13	Alice Braine	KW Middle School
14	Al Ramsey	
15	Pay & Joe Azzolini	
16	Susan Page	
17	Michael White	
18	Jerry Thomas	
19	Tom Austin	
20	Howard Rose	
21	Carol Nagel	Flags Real Estate
22	Cather Reinburg	
23	Gary Hierstein	
24	Mark Micheletti	
25	M. McCleary	Ret
26	Antonio Bandeira	
27	Jim DeMasi	Self
28	Martin Basaldua	
29	Beau Tardy	FCPOA President
30	Dick Johle	RJJohle
31	Brenda Parker	
32	Theresa Miller	
33	G. Novaretta	
34	Cheryl Potok	
35	Gwendolyn Condocoa	MCTO
36	David M. Berka	
37	Jim & Robin Lennon	Self
38	Russell Brown	Self
39	Stan Sarman	TIRZ 10
40	Paul Diderson	
41	Gary Sowyrda	
42	Lynne Trunsier	
43	M.W. Boyd	
44	Roland Pohler	

Sign-In Sheet
Kingwood Mobility Stakeholder Meeting #1
Tuesday, May 13, 2014

	<i>Name</i>	<i>Firm/Agency</i>
45	Jan Pohler	
46	Don Barksdale	
47	Dan & Marty Pradel	AMI, Inc.
48	Ted Mandel	
49	Erroll Hines	
50	Earl Hale	
51	Nancy Graver	
52	Katherine Brown	
53	Susan Brodbeck	
54	Gene Zanchelli	
55	Jeff Prowell	
56	Tom Trigg	
57	Fred McCarty	
58	Les Broyles	
59	Helen Michelinn	
60	Dee Price	
61	Carol Peters	
62	Wendy Aldridge	
63	Peggy	
64	Marian L. Burrows	
65	Jeff Roberts	
66	Alice Rekeweg	
67	Raymond Foster	
68	Vincent & Karen Palmisano	
69	Brian Manning	
70	D.R. Duke Atkins	HPD
71	Tom & Claudette Clark	
72	Larry & Trueit Vondrak	
73	Johnson Taylor	
74	Mike & Dee Kohler	
75	Corena Lipstreuer	
76	Chad Garza	Tribune
77	Bery & Glen Ragsdale	
78	Brenda Murdock	Resident
79	Dave Janiga	
80	Marlene Burkhart	
81	Michael O'Day	KW PV
82	Charles DeVoe	
83	Ria Bicholas	
84	Ken & Diana Binnie	
85	Phillip & Rose Day	
86	Tom & Nancy Karpiniti	
87	Chross Boss	
88	Walt Hesser	

Sign-In Sheet
Kingwood Mobility Stakeholder Meeting #1
Tuesday, May 13, 2014

	<i>Name</i>	<i>Firm/Agency</i>
89	Illegible	
90	Hal Opperman	Keep Kingwood Green
91	Donna Duhon	Keller Williams
92	Walt Hfoley	
93	Gene Goll	
94	Robert Arnold	
95	Carl Bresko	
96	David Woerner	
97	Richard Heffelfinger	
98	Tom Gallagher	
99	Jim Simmons	
100	Bob Mitchell	
101	C.L. Goll	
102	James King	
103	Vickie LeGrande	
104	Dan Burkhardts	
105	Linda Sarman	
106	John VanGuard	
107	Joe Kosmin	
108	Lorena Abitante	
109	Rob Webb	
110	William R. Storey	
111	Ginny Eddly	
112	Jake Hebert	
113	Carlene Mullins	H-GAC
114	Rose Ann Martin	KWMC
115	Bob Robertson	NWH HOA
116	Bob Bagley	MoCo Hispital District
117	Bonnie McKenma	
118	Pauline Symon	Keller Williams
119	Bart Sheinberg	
120	Margaret Dalton	
121	Barbara Bernett	
122	Katrin McManis	
123	Juanita Goss	
124	Warren Goss	
125	Richmond Komosinski	
126	Michael Clapp	Keller Williams
127	Richard & Vicki Stewart	
128	Fred & Peggy Bullough	
129	Todd & Lisa Prigmore	
130	Kenny & Judie Tidwell	
131	Richard Beneinger	
132	Gregory Livingston	

Sign-In Sheet
Kingwood Mobility Stakeholder Meeting #1
Tuesday, May 13, 2014

	<i>Name</i>	<i>Firm/Agency</i>
133	Colette Foley	
134	Allen Brown	
135	Tom Feagins	
136	Robert Rikson	
137	Kim & Lynne Haley	
138	Chris Cotter	
139	Rich Bowman	
140	Rose VanDinter	
141	Hue James	
142	Pat Maher	
143	Jacqueline Torrey	
144	Paul & Camille Crazda	
145	Tylor Francis	
146	Marilyn David	
147	Lynn Forster	
148	Alan Potok	
149	Dan Monks	SWH
150	Terrence Boggs	
151	David & Wendy Aldridge	
152	Lane	
153	Manuel A. Griso	
154	David Johnson	
155	Ronald Hebert	
156	Julie Hebert	
157	Marie Dunccan	
158	Marjory Sakicu	
159	Judy & Dick Johle	
160	Mike Prats	
161	Richard Leofsky	
162	Ervin H. Baumeyer	
163	Dan Tracy	