

Dixon Branch Public Meeting #3

City of Dallas, Texas
April 23, 2009



MEETING AGENDA

- ▶ Project Overview 7:00-7:30
- ▶ Project Update
- ▶ Next Steps
- ▶ Question & Answer 7:30-8:30



Project Overview

- ▶ 2 Phases
 - Flood Study
 - Engineering Design/Construction *(future potential)*
- ▶ Flood Study
 - #1 Goal = Alleviate Flooding
 - Develop alternatives by considering various parameters



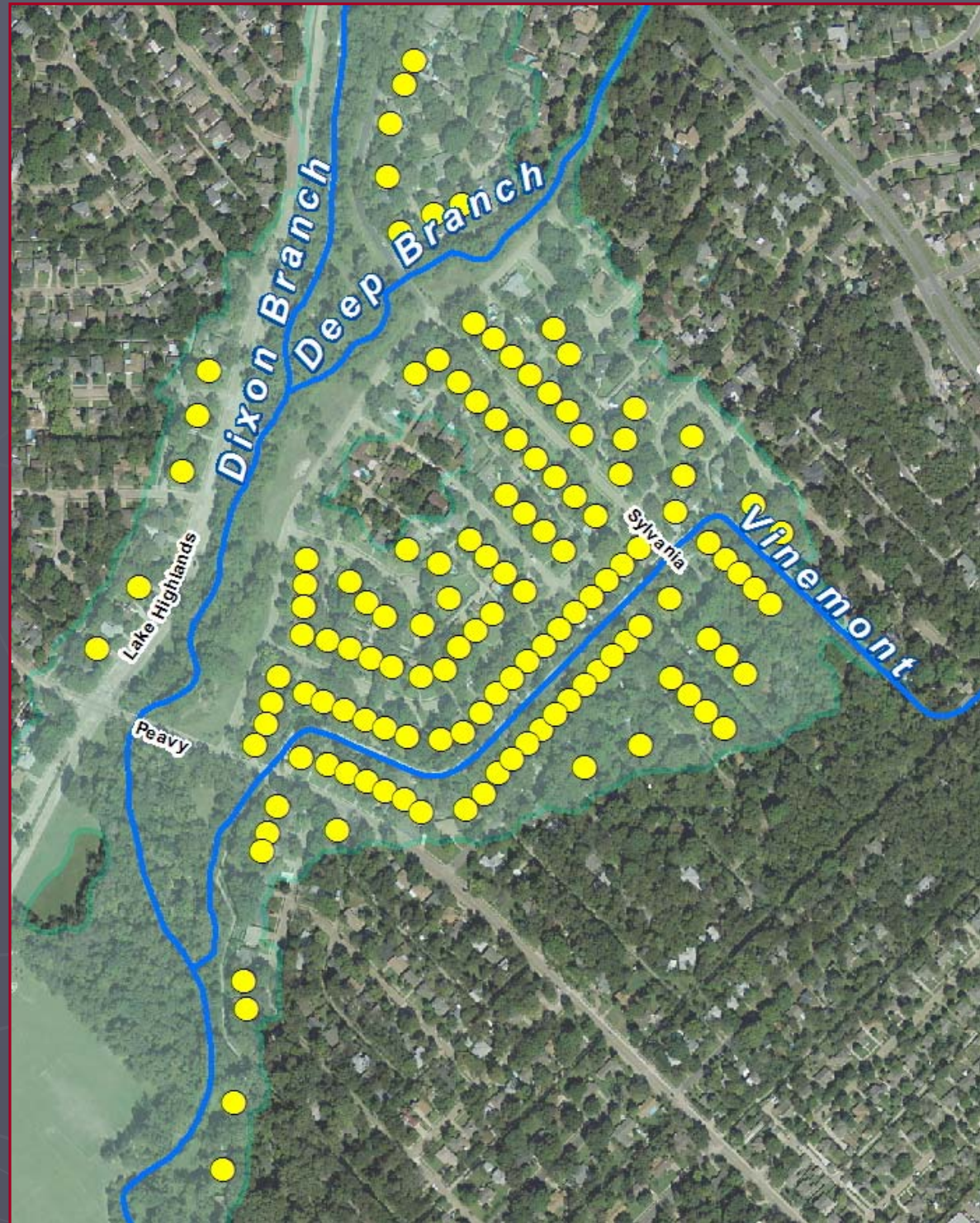
Summary of Public Meeting #2

- ▶ Presentation
 - Existing Analysis
 - 6 Alternatives
 - Next Steps & Schedule
- ▶ Break-out Groups
- ▶ Comment Forms



100-year storm event

- ▶ 132 homes flooding (YELLOW DOTS)
- ▶ 272 homes in floodplain
- ▶ 2.3 ft flood depth
- ▶ \$14.5 M estimated damage



Review Existing Analysis: Property Flooding

Storm Event	Homes with structural flooding	Max depth in home (ft)	Average depth in home (ft)	Estimated Damages
Observed March 19 th	27	3.0	1.0	---
Modeled March 19 th	60	2.5	1.0	\$4.1 mill.
Modeled 100-yr	132	5.0	2.3	\$14.5 mill



Review Existing Analysis: Roadway Flooding

Roadway Crossing	Modeled March 19 th Storm	Modeled 100-yr Storm
	Overtopping Depth (ft)	Overtopping Depth (ft)
Easton	-----	3.34
Peavy	2.11	4.35
Buckner	2.82	3.45
Lawther	0.46	0.48



Am I flooding from Dixon or Vinemont?

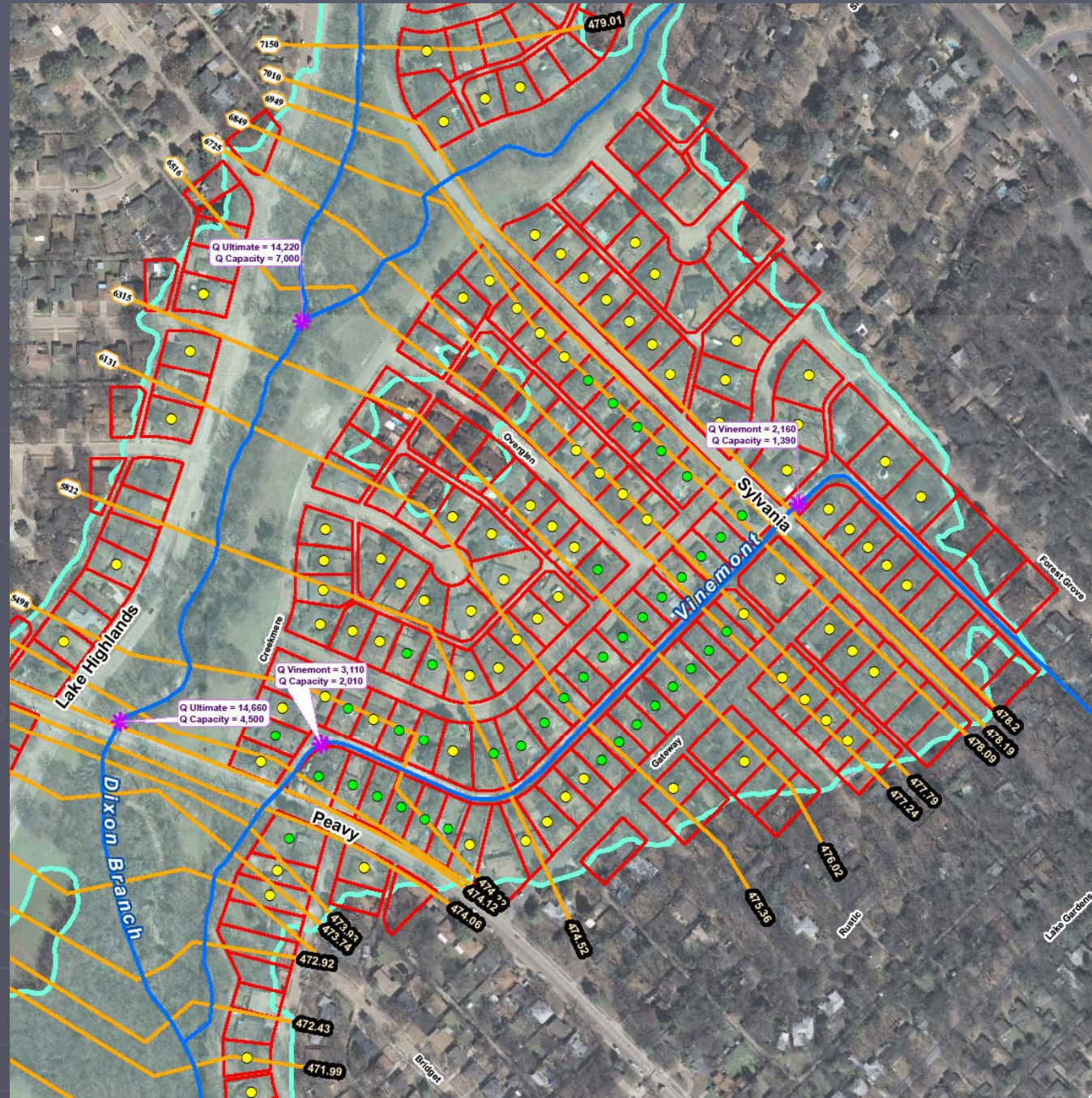
132 TOTAL

92 YELLOW DOTS

■ From Dixon alone

40 GREEN DOTS

■ From BOTH Dixon and Vinemont



PROJECT UPDATE



PROJECT GOAL

Solve the structure flooding by providing 100-year protection, considering...

- ▶ Engineering needs
- ▶ Environmental requirements
- ▶ Funding constraints
- ▶ Public Involvement & Buy-In
- ▶ Easements – Stay within existing ROW & Easements
- ▶ Vegetation – Tree & habitat protection



Comment Forms from PM #2

▶ Received 51 Comment Forms

Alternatives	Public Score (1-6)	Public Ranking (6 is highest)
1) Diversion	4.6	6
2) Diversion + Voluntary Purchase	3.9	5
3) Deep Detention	2.8	2
4) Full Voluntary Purchase	3.4	4
5) Diversion + Detention	3.3	3
6) Channel Improvements	1.5	1

Main concerns...

- Continued/Worsening Flooding & Property Damage
- Maintenance
- Loss of Trees, keeping channel natural
- Decreased Property Value

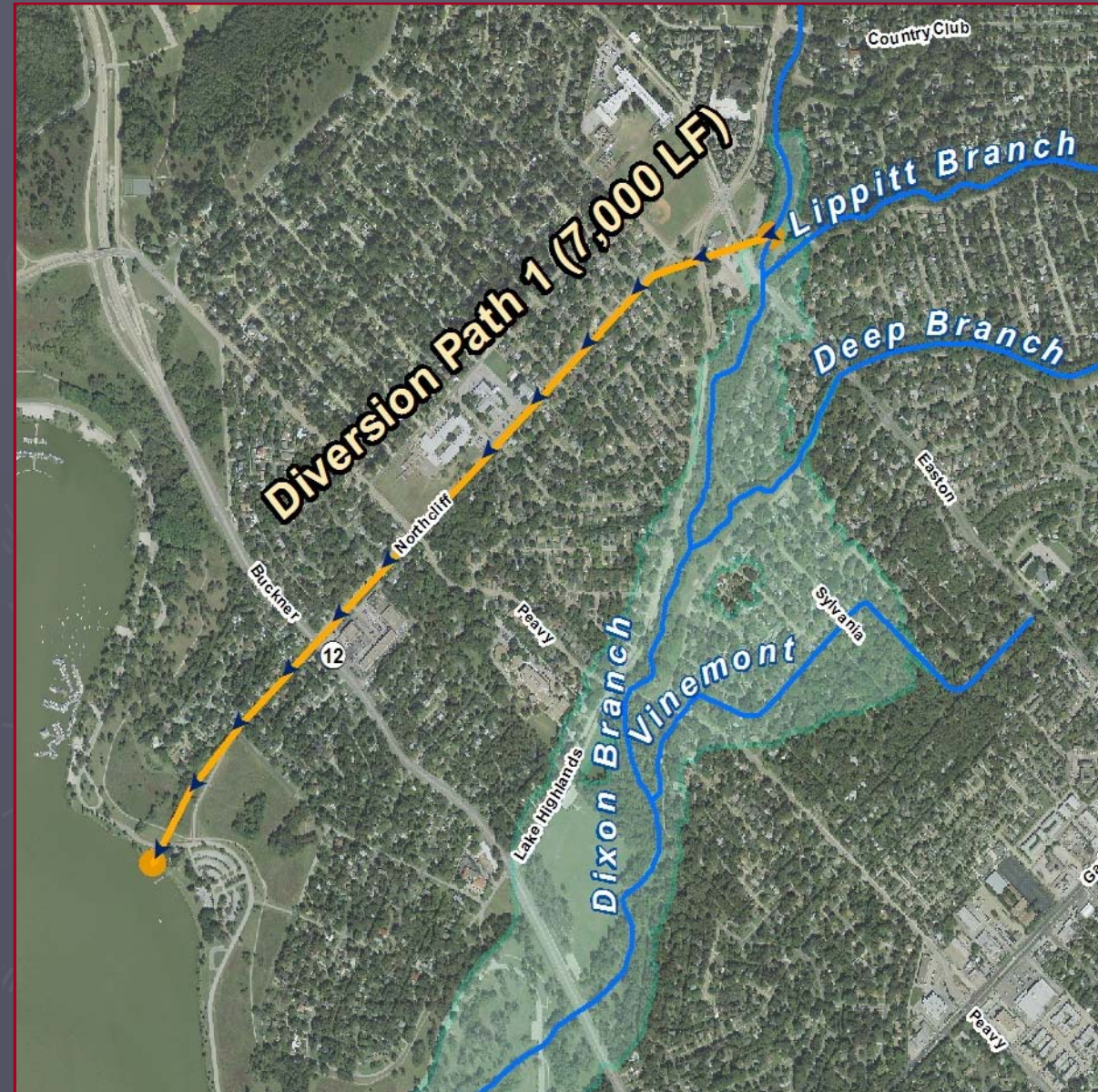


Alternatives Ranking Summary

*all alternatives require a Vinemont Diversion

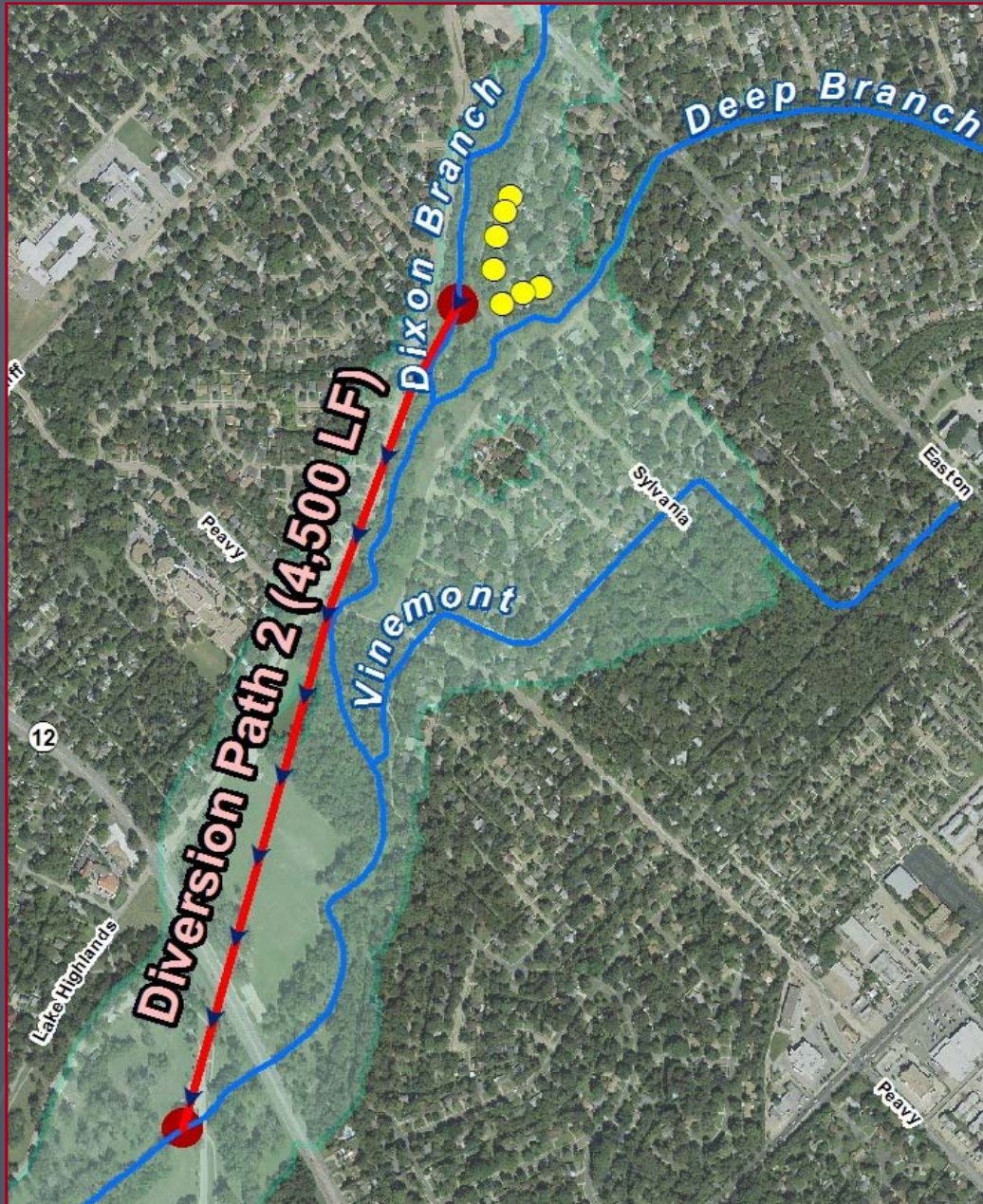
Alternative	Public Opinion (6 = most desired)	Cost (6 = lowest cost)	Environmental (6 = lowest impact)	Overall
1) Diversion	6	3	5	4.67
2) Diversion + Voluntary Purchase	5	5	4	4.67
3) Deep Detention	2	1	3	2
4) Voluntary Purchase	4	4	6	4.67
5) Diversion + Detention	3	2	2	2.33
6) Channel Improvements	1	6	1	2.67

ALTERNATIVE #1: DIVERSION



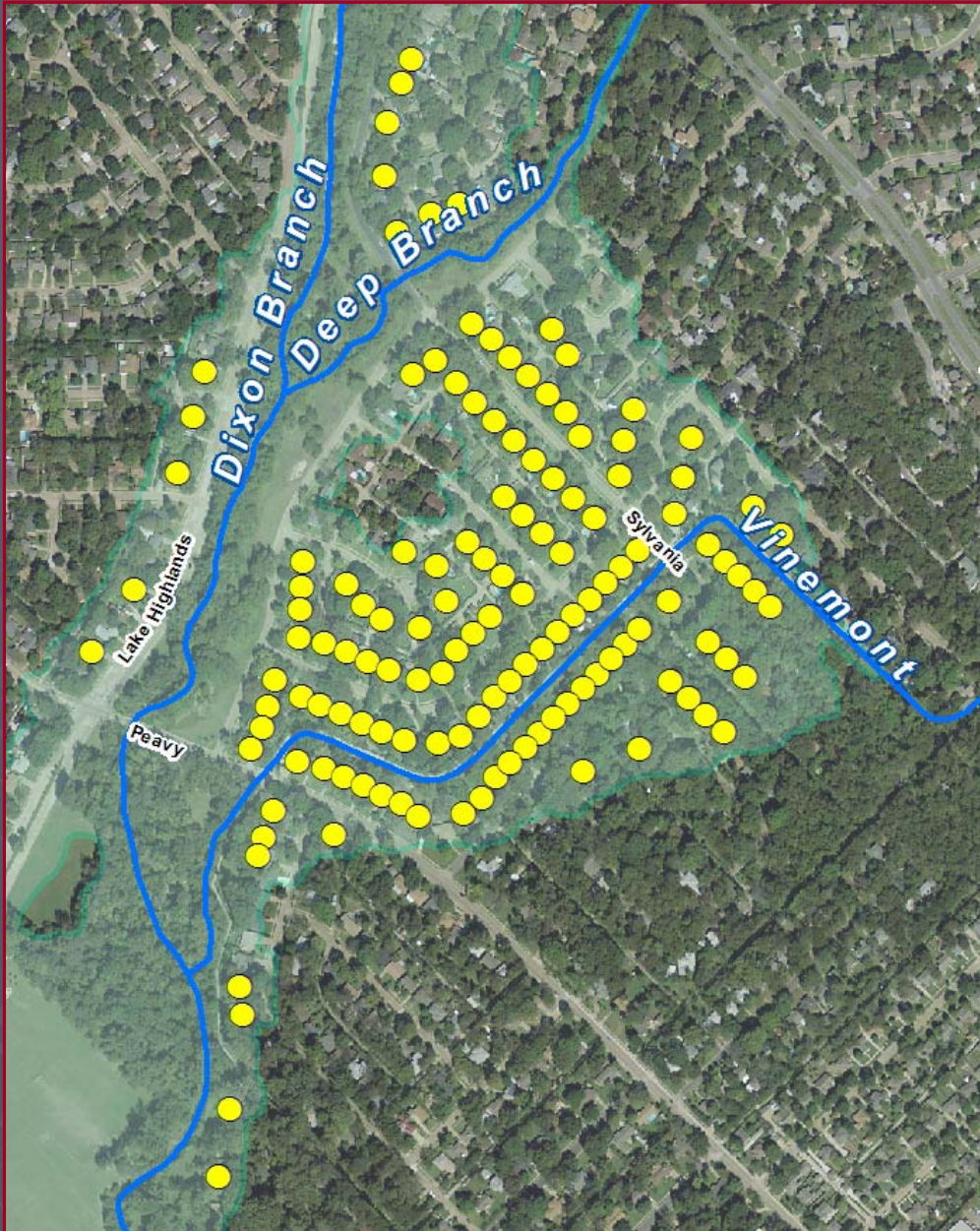
- ▶ 7,000 LF Deep Tunnel
- ▶ Underneath Northcliff Dr
 - Intake north of Easton
 - Outfall into White Rock Lake
- ▶ Low Environmental Impact
- ▶ \$66.4 Million

ALTERNATIVE #2: Diversion + Voluntary Purchase



- ▶ 4,500 LF Deep Tunnel
- ▶ Underneath Lake Highlands Boulevard
 - Intake north of the Dixon-Deep confluence
 - Outfall into Dixon south of Lawther
- ▶ Voluntary Purchase of 7 flooded properties (YELLOW)
- ▶ Low Environmental Impact
- ▶ \$47.9 Million

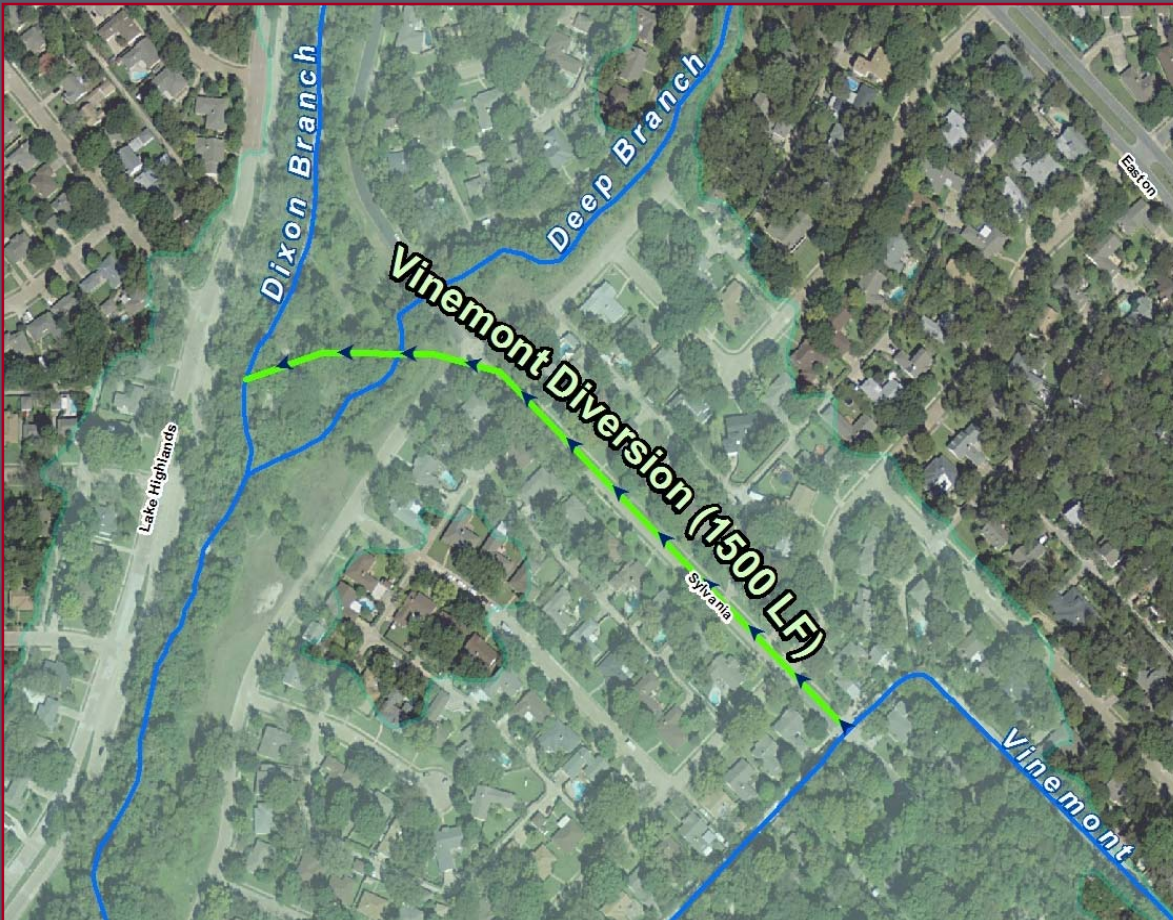
ALTERNATIVE #4: Voluntary Purchase



- ▶ Voluntary City Purchase of 132 Flooded Homes
 - One time offer with a set expiration date
 - Fair market value of land and improvements
- ▶ Lowest Environmental Impact
- ▶ \$48.4 Million

VINEMONT DIVERSION

Required in addition to Alternatives 1 & 2



- ▶ 1,500 LF Box Culverts
- ▶ Alignment along Sylvania
- ▶ Low Environmental Impact
- ▶ \$4.1 Million



Recommended Alternative

Alternative	Public Opinion (6 = most desired)	Overall	Cost (Millions)
1) Diversion	6	4.67	\$66.4
2) Diversion + Voluntary Purchase	5	4.67	\$47.9
4) Voluntary Purchase	4	4.67	\$48.4



*Alternatives 1 & 2 include the
Vinemont Diversion*



Next Steps

Dixon
Branch
Diversion

Bond Program
• Dixon Diversion?

City of Dallas
Needs Inventory

- Water projects
- Roadway projects
- Drainage projects
 - **Dixon Diversion?**
 - Other drainage projects

Bond
Program
Development
• Town Hall
Meeting(s)

Rally *neighborhood support* for the Diversion.



Question & Answer

- ▶ Answer individual questions about
 - Alternatives
 - Ranking
 - Next Steps
- ▶ More info at
<http://clients.freese.com/dallas/dixonbranch/>



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