

Shavano Park Flooding & Drainage Survey

Summary (as of February 14, 2018 @ 2:20 PM)

- **Responses:** 40 respondents
- Survey used IP-filtering for security. A manual check for irregularities (like fake addresses) did not spot any fake submissions

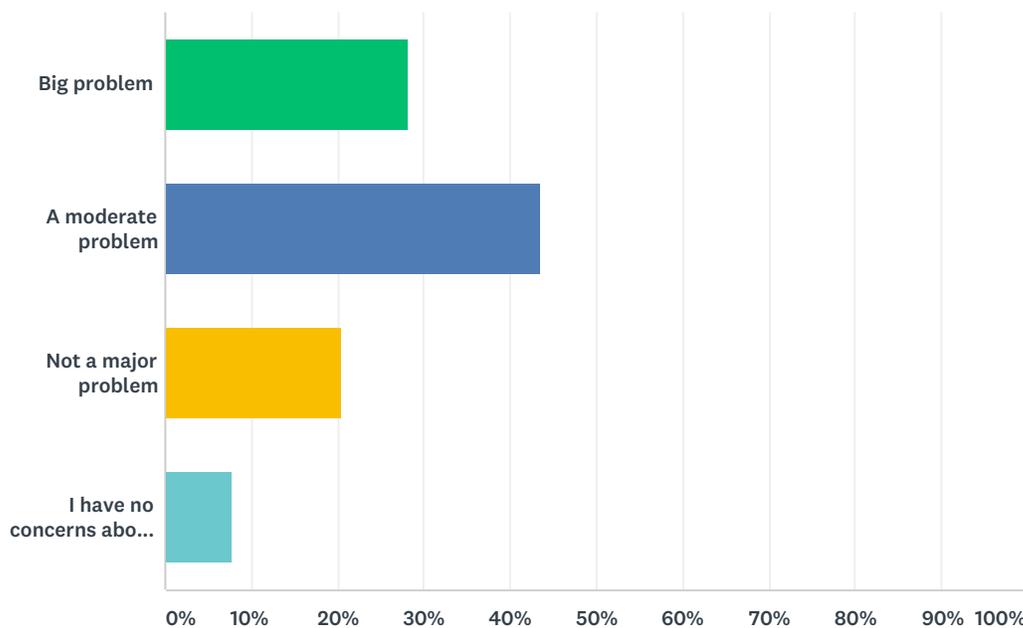
Question 3 Summary

Does City currently has a problem with drainage and stormwater runoff?

- 43.59% of respondents said that there was a moderate problem with flooding and drainage in the City.
- 28.21% of respondents said that there was a big problem with flooding and drainage in the City.

Q3 While the City has long had concerns with flooding, it has always lacked the funds to tackle any major undertaking. In 2017, the City hired KFW Engineers & Surveying to conduct an up-to-date drainage study using the latest tools and methods. In September KFW presented their findings to the Planning & Zoning Commission and provided a list of recommended projects and their potential costs. (Note: Some proposed solutions may require securing a drainage easement or homeowner permission to make improvements on private property.) The most expensive drainage project is to solve flooding in the vicinity of Turkey Creek. Here is video that models homes in the vicinity of Turkey Creek being impacted by 25-Year flood event: We want your thoughts for how the City should proceed and your thoughts on the recommended projects (especially if you live near them). First, do you feel that the City currently has a problem with drainage and storm water runoff?

Answered: 39 Skipped: 1



ANSWER CHOICES	RESPONSES	
Big problem	28.21%	11
A moderate problem	43.59%	17
Not a major problem	20.51%	8
I have no concerns about flooding or drainage	7.69%	3
TOTAL		39

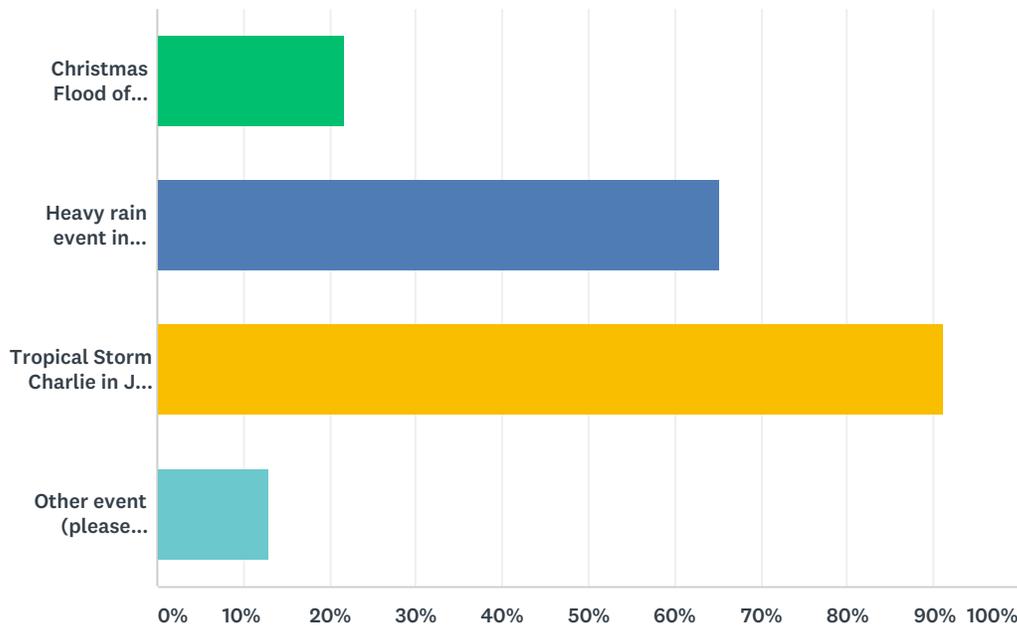
Question 4 Summary

Were you a resident during flooding events?

- 91% of respondents said that they were residents during Tropical Storm Charlie in July 2002

Q4 City staff researched that the last three big flood events for the City were the "Christmas Flood" in December 1991, heavy rains in October 1998 and Tropical Storm Charlie in July 2002. The National Weather Service records show that 10 to 15 inches of rain fell in the Shavano Park area in October 1998 while nearly 10 inches of rain fell in July 2002. Staff have heard from many residents about their experiences in these past floods and have found pictures of the flooding among the records in City Hall. Were you a resident of Shavano Park during any of the these three events? If so, what were your experiences? For which events you were a resident (you can select all or none) and then provide any other details of your experiences in the comment box. This sort of oral history will help improve our understanding of the drainage problems in the City and how best to tackle them.

Answered: 23 Skipped: 17



ANSWER CHOICES	RESPONSES
Christmas Flood of December 1991	21.74% 5
Heavy rain event in October 1998	65.22% 15
Tropical Storm Charlie in July 2002	91.30% 21
Other event (please describe below)	13.04% 3
Total Respondents: 23	

#	PLEASE PROVIDE DETAILS OF YOUR EXPERIENCE FOR ANY OF THE ABOVE EVENTS.	DATE
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Shavano Park Town Plan - Flooding & Drainage

SurveyMonkey

1	None were a threat to our residence.	10/19/2017 3:47 PM
2	Resided at 102 Bikeway at the time of the 98 event and 02 event. Diagrams show flooding from the municipal tract onto 102 and then into Bikeway Ln itself. That did not occur, worst issue was the pool overflowing. inch or so of water in the yard.	10/19/2017 8:25 AM
3	No problems with flooding except water infiltration from an improperly draining planter by my back porch.	10/17/2017 1:20 PM
4	A lot of water thru our yard creating a mud pit. We landscaped with river rock and crushed granite pathways to mitigate its effect on our yard.	10/10/2017 7:49 AM
5	We have had 10" of rain here and it did not bring any major problem	10/9/2017 7:57 PM
6	Have seen 10" of rain in our gauge since we moved here eight years ago. Was a lot of water but not severe flooding	10/9/2017 6:55 PM
7	In Shavano Creek water drained okay.	10/9/2017 3:58 PM
8	I was living in the older section of Shavano Park during all three events, and we were spared significant damage.	10/6/2017 5:10 PM
9	Not a resident during those storms	10/6/2017 9:13 AM
10	I remember October '98 flood the most. I drove the areas on my home during the rains a number of times and recall the water to be moving and not causing problems in this area.	10/3/2017 3:03 PM
11	Really did not see a flood impact during any of the three listed events.	10/3/2017 10:23 AM
12	I was a city official during this event and am aware of flooding along Olmos Creek with water in resident's homes. Also witnesses flooding in SP Estates	10/2/2017 10:37 PM
13	We resided on Windmill Rd (111) then, and had to dig (during the downpours) lots of trenches and french drains around our property to keep the water from getting inside the house.	10/2/2017 7:16 PM
14	Oct. 98 rain ran down Happy Trail, and on both sides of our home, but did not flood the house. Standing water in back yard. July 2002 out of town that week, but no flooding of house.	10/2/2017 4:13 PM
15	As a resident of Shavano Creek during the floods of '98 and '02, I noted no serious flooding issues in our subdivision during either of these floods. However, our creeks did run very high and a flooding potential exists if these drainage areas are not well maintained and kept clear of trees, shrubs, and debris.	10/2/2017 3:32 PM
16	We were not Shavano Park Residents during any of these events.	10/2/2017 3:29 PM
17	Turkey Creek runs thru our front yard. during both storms our front yard was a river. The water ran thru our back yard as well	10/2/2017 3:15 PM
18	no issues	10/2/2017 1:13 PM
19	Lost trees. Constrained travel. Property/residence damage.	10/1/2017 3:17 PM
20	Flooding of yard and patios. No water in house. 1998	10/1/2017 2:26 PM
21	We lived on Painted Post at this time and out back yard flooded during both of these floods. There is a lot of debris in the creek that causes damming as well as the drainage from the street	9/30/2017 12:15 PM
22	all of the above	9/30/2017 11:58 AM
23	In order to leave my house, I need to drive through Turkey Creek. In 2002, I couldn't leave my home for several hours due to flooding of the creek. In 2016, my son drove into Turkey Creek around 5 AM, and his car was totaled because water got into the engine. There were no barricades up, and of course, there is no lighting at all on our streets. Any lighting at all might have helped him see that the creek was flooded.	9/29/2017 9:35 PM
24	the channel in back of our lot fills, the berm apparently keeps it from overflowing, but there is always deep water across the back of our lot during one of these really heavy rains and runs like a little river between 131 and us (133) and across Wagon Trail. Very fortunate, it has never gotten into the house	9/29/2017 4:39 PM
25	We had no major problems with either event.	9/29/2017 4:35 PM
26	N/A was not here then...	9/29/2017 10:49 AM
27	Creek went up but no flooding	9/29/2017 10:32 AM

28

No issue

9/29/2017 9:22 AM

Question 5 Summary

Are you aware of any additional drainage areas?

- Only 17 respondents answered
- Mention of problems on Shavano Drive, Lockhill-Selma Rd., Willow Wood, Bobcat Bend, Fawn Drive, and Wagon Trail
- Others were not aware of any other problem areas

Q5 You can view the KFW drainage study several ways. You can view the powerpoint Presentation (note only 25 year flood events are covered in this presentation). Or you can view the entire (both 25 and 100 year flood events) digitally through this link: [KFW Drainage Study](#). This will take you to a digital interactive map of the drainage study findings and KFW's recommended solutions. Take some time to look at the various projects near your home and across the City. Note: Some may have difficulties viewing the GIS web portal with their web browser. You will need to have Adobe Flash installed to view. To download: [Get Flash](#) also see the [Adobe Flash help guide](#). In addition to the areas identified by KFW you viewed above, are you aware of any additional drainage areas not noted by our City Engineers that also have significant drainage and storm water runoff problems? If so, Please provide an address or clear description of the location.

Answered: 17 Skipped: 23

#	RESPONSES	DATE
1	1) 119 Shavano Drive - water pools in this yard and onto street after every rain event. 2) 113/ 115 Shavano Drive - water runs downhill off Shavano Drive AND down hill through 111 & 113 Shavano onto 115 Shavano. Pond forms between 113/ 115 each rain event. This owner has had to install a sump pump and series of pipes to prevent his home from flooding. This system is used quite frequently because the generator can be heard in our home. He's now routing and dumping the storm water at the rear of his lot, onto my lot, which then runs to the Cattle Pond. Seems that a proper bar ditch in front of his lot would aid the issue.	10/19/2017 8:25 AM
2	With all of the land clearing, paving and commercial development on the West side of Lockhill Selma between De Zavala and 1604, has the increase in runoff been calculated? This runoff would flow thru the green belt between Hampton Way and Geddington. The growing amount of dead brush would slow the flow and damn the waters. The brush is also a growing fire hazard.	10/18/2017 7:17 PM
3	No.	10/17/2017 1:20 PM
4	No	10/10/2017 7:49 AM
5	No	10/9/2017 7:57 PM
6	New cluster home development off Pond Hill has installed a culvert to drain their water runoff into Willow Wood. This has significantly increased the amount of water flow into Willow Wood, down Granville Way and right onto Arbor Circle until reaching detention ponds located off Arbor Circle, during heavy rains.	10/6/2017 12:09 PM
7	There is an earthen storm draining ditch between the lots at 110 and 112 Bobcat Bend which catches a large volume of water during significant rainfall. I do not see this represented on the map, nor where the water that feeds into this ditch comes from - some of which flows through the lot at 115 Bobcat Bend	10/6/2017 9:13 AM
8	This plan should include a clear description of the drainage proposals from TXDOT regarding widening of NW Military.	10/4/2017 10:35 AM
9	After saturating rains water ponds in the front lawn near the road of 204 Fawn Dr.	10/3/2017 3:03 PM
10	No	10/3/2017 10:23 AM
11	N/A	10/2/2017 4:13 PM

12	No we are not aware of any additional drainage areas.....	10/2/2017 3:29 PM
13	not aware of others	10/2/2017 1:13 PM
14	Along Painted post	9/30/2017 12:15 PM
15	don't know of any others	9/29/2017 9:35 PM
16	As mentioned above, across the back of 133 Wagon Trail and between 133 and 131 and then on across into the channel or whatever it is that goes under nw military	9/29/2017 4:39 PM
17	No	9/29/2017 4:35 PM

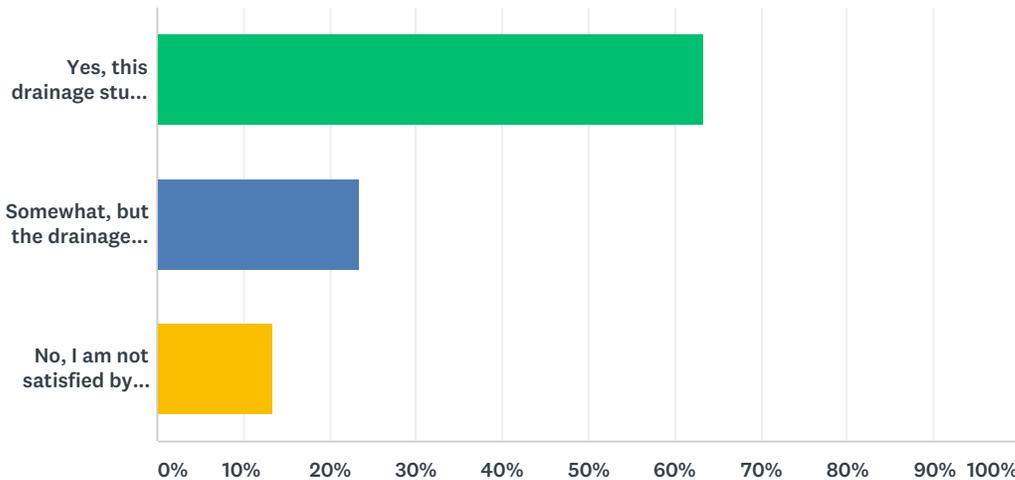
Question 6 Summary

What are your thoughts on KFW's drainage study?

- 63.33% of respondents said that the drainage study was helpful.
- 23.33% of respondents said that the drainage study was somewhat helpful.
- 13.33% of respondents were not satisfied by the drainage study.

Q6 After viewing the KFW Drainage Study GIS, what are your thoughts on their findings or solutions? Where you surprised by the findings or did you expect these results? This is an open ended question, feel free to provide any feedback on the study or this survey.

Answered: 30 Skipped: 10



ANSWER CHOICES	RESPONSES
Yes, this drainage study is helpful	63.33% 19
Somewhat, but the drainage study is not what I expected	23.33% 7
No, I am not satisfied by the drainage study	13.33% 4
TOTAL	30

#	FEEL FREE TO EXPLAIN YOUR ANSWER BELOW.	DATE
1	Doing studies the can not be funded is waste of tax payers dollars, and especially when previous studies have already been done	10/19/2017 3:47 PM
2	Surprised by several of their models. I think the issue at 102 Bikeway and flooding across De Zavala is more minimal than modeled based on experience. I also think the Cattle Pond is worse than they show, with the development of Huntington, it has most certainly gotten worse, and seems to affect more of my lot quite often. This pond is in close proximity to our home and the yard where our kids play, it is a heath hazard (mosquitos, snakes, etc) and needs to be dealt with to everyone's benefit.	10/19/2017 8:25 AM
3	Needs field checking during a heavy rain event.	10/17/2017 1:20 PM
4	While we have drainage problems, we could not disagree more with the proposed plan.	10/9/2017 7:57 PM
5	I would like to see the drainage be routed along deZavala and not go through neighborhoods where houses are impacted.	10/9/2017 6:55 PM
6	Study seems limited in what it shows for concerns for flooding and excessive drainage. The large retention pond at SP Tennis Center would seem to be an area that might be prone to flooding in heavy rains since it captures a great deal of runoff, yet there was no show of water concern in that area in the demonstration. The extensive development off the 1604 access Rd. and Pond Hill Rd (that flow in part to this pond) will certainly increase the amount of run off due to the addition of a large areas of impermeable surfaces that have been added in recent years and this is not reflected in the study at all. I would like to know how development is impacting storm runoff problems.	10/6/2017 12:09 PM

7	Referring to the online GIS only as not being that helpful. Watching or attending the meeting, I am sure they gave more detailed explanation	10/6/2017 9:13 AM
8	Drainage problem 4.1 entails running a 60 inch sewer down Elm Springs and then through a 15 foot earthen channel through my backyard. This channel will then open on to the 14 acre site on which the Valero chairman is building a new home. I cannot speak for my neighbor, but your plan will seriously decrease the value of my property, compromising the lovely creekbed that led me to buy this home. The problem has occurred because of the culvert across NW Military collects water from the east side of the road and directs it down Elm Springs, a direction that it may never have gone unless directed by your culverts. Additionally, I am concerned that TXDOT will put an inadequate drainage system on NW Military and the pitch of the storm sewers will carry water all the way from Happy Trail back to Elm Springs since Happy Trail is the crest of the hill. A 30 foot wide expansion of NW Military for the 2 miles of it's length in Shavano Park is about the equivalent of adding 80 4000sqft 1 story houses to the drainage problems of Shavano Park. What are TXDOT's drainage plans? I never saw any information on the size of the storm sewers planned and wonder if 2 60in pipes would be adequate to keep the floodplain boundaries. You do not have a drainage easement through my property, and I will not willingly give you one. If you wish to purchase my property to effect this plan please contact me	10/4/2017 10:35 AM
9	Studies are only truly helpful IF ACTED upon!!! They do NO good when placed on a shelf.	10/2/2017 7:16 PM
10	More interested in potential risk of drowning or flooding of homes than in temporary water on roads, esp. in those areas w/alternative exit. In new areas (such as Huntington, Bentley Manor, Willow Wood, etc.) these problems should have been/be resolved by developers, not tax dollars of SP citizens. Ditto with problems caused by TXDOT culverts... they caused; they should fix.	10/2/2017 4:13 PM
11	To fix the drainage on my property will cost \$4.5M so it won't be done. I just want to be sure that fixing other problems won't make the flooding worse for me.	10/2/2017 3:15 PM
12	lots more areas flood than I knew about	9/29/2017 9:35 PM
13	Seems it might be helpful, but I have no knowledge of what should be done and what effect it will have on my property -- seems like it would direct it "down stream"	9/29/2017 4:39 PM
14	As a civil engineer with a background in flood control it would be helpful to be able to see more clearly the maps on the Power Point presentation. It is difficult to see the street names to see exactly where the problems are occurring.	9/29/2017 4:35 PM
15	I had to engineer my own drainage ditch across my property. I think the city has been sitting around using funds allocated for drainage repairs on other things. I've spent about \$20K reworking what the city claims is it's ditch but would not take care of it or repair it. I'm not happy with Shavano Park. My next door, Rick Weston has a terrible flooding problem in his back yard where the same ditch I have fixed backs up and nearly floods his home in big rains.	9/29/2017 10:49 AM
16	Was not able to view this study at time of this survey	9/29/2017 9:22 AM

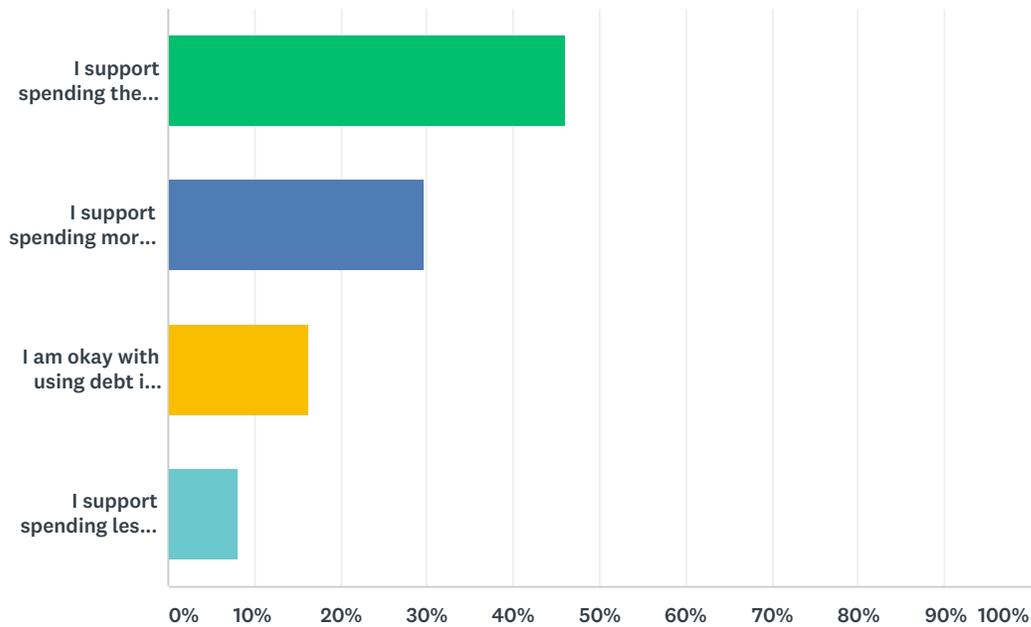
Question 7 Summary

How supportive are you of the City spending money on fixing drainage?

- 49.95% of respondents support spending the current monies set aside on drainage projects
- 29.73% of respondents support spending more money than is set aside, but do not wish to go into debt.

Q7 While there is never enough money to solve every drainage problem, the City finally has a sizable reserve dedicated to solving the City's drainage problem - about \$1.5 million. While this is a large reserve, it is unable to pay for every improvement recommended by the 2017 KFW Study. The Total estimate cost of the KFW recommended solutions is in excess of \$7 million. How supportive are you of the City spending money on fixing drainage problems?

Answered: 37 Skipped: 3



ANSWER CHOICES	RESPONSES
I support spending the current monies set aside on drainage projects	45.95% 17
I support spending more than currently set aside - but no debt	29.73% 11
I am okay with using debt in the future to pay for the big drainage projects	16.22% 6
I support spending less on drainage projects and moving the money to other projects	8.11% 3
TOTAL	37

#	IF YOU WISH YOU CAN EXPLAIN YOUR ANSWER BELOW:	DATE
1	We have enough money in reserves and fund balance to do the critical projects without debt. Fund balance is not sacrosanct. It should be used if the residents think drainage is important enough.	10/17/2017 1:20 PM
2	We will use every legal recourse if Shavano Park attempts to implement a plan to which we do not agree.	10/9/2017 7:57 PM
3	The residents impacted have the final say and they must review all plans before any assessment can be made as to the cost.	10/9/2017 6:55 PM

4	City should use funds that have been set aside and if need be, budget for additional funds each year to start to deal with certain drainage problems, but there is no way to address all the issues due to the cost. Furthermore, I also believe that Homeowners take on a certain amount of risk when they purchase homes in flood prone areas (especially near creeks) and it should not be the responsibility of ALL other taxpayers to mitigate all the flooding concerns for homes that are situated in low lying areas. I do believe that the city is responsible for keeping roads from flooding whenever possible and protecting city owned structures and ensuring that new development does not create new flood prone areas due to increasing amounts of storm runoff and I support funds being spent for these purposes.	10/6/2017 12:09 PM
5	Best to get busy before something really BAD happens!	10/2/2017 7:16 PM
6	For culverts, not caused by TXDOT, in the older areas like Turkey Creek.	10/2/2017 4:13 PM
7	I have always felt that drainage issues should be the top priority of the Town Plan. Protection of lives and property should be the main goal of this city. Protective drainage should rank right up with police and fire protection. While only \$1.5 million of city funds are currently dedicated to solving city drainage problems, our city has nearly \$10 million in dedicated and undedicated funds that could and should be used for solving drainage problems rather than "feel good projects."	10/2/2017 3:32 PM
8	I support it as long as it does not make things worse for my property.	10/2/2017 3:15 PM
9	I am concerned with using public monies to fix problems on private property. I do believe that all new construction on any property (including older sections) need to be done with the drainage as part of its process. I think if we can stop a potential problem before changing the topography that leads to severe changes to storm water runoff it would behoove us to do so.	10/2/2017 1:13 PM
10	Context is everything. Could you please provide background and insight as to who and how this particular set of survey questions was crafted? Just my opinion, such info would help me in understanding context. For example - the survey says at the beginning "drainage has always been a problem but we've never had money" and then later "we finally have some money" but these statements are really disingenuous. They sound nice and are palatable, but it just avoid and patently covers up the fact that since 1993 the City (its elected leaders during that time) has opted to do nothing in the face of knowing there are drainage problems. Instead, residents are told that drainage is a problem and that it is expensive and that the city will work on it in phases because of the cost, when by the KFW Study there are several places where things could be addressed at no to low to very minimal cost. And that has just not been done by the City. For years. Framing the questions in the way they're framed belies that truth and appears to intentionally set a tone that is just par for the course for government. Shavano Park is better than that and residents darn sure deserve better than that. Also, the survey references public hearings and it looks like they'll be done in stages and by topic. Who specifically is setting the agenda for these hearings? Who specifically is involved in making the agenda for these hearings? Has the City done anything to make one place on the City's website the go-to place for this (and all) information? Creating an info place such that residents can begin to see it and actually use it as the go-to site for info and resources? And how is the info disseminated so as to best engage and include residents? Things are still so scattershot and it's almost as if by design. Thanks	10/1/2017 3:17 PM
11	It is important to set the right priorities for the use of the funds. Obviously not all issues affect homes directly and these should have the greatest priority.	9/29/2017 4:35 PM
12	Money has been allocated and promises made to Mr. Weston and me over the past 4 years to clean up the poor drainage flowing through our properties. What a joke! Get off your collective asses and get it done.	9/29/2017 10:49 AM