



GARLAND

AGENDA

CITY COUNCIL WORK SESSION

City of Garland

Work Session Room, City Hall

William E. Dollar Municipal Building

200 North Fifth Street

Garland, Texas

September 5, 2017

5:30 p.m.

DEFINITIONS:

Written Briefing: Items that generally do not require a presentation or discussion by the staff or Council. On these items the staff is seeking direction from the Council or providing information in a written format.

Verbal Briefing: These items do not require written background information or are an update on items previously discussed by the Council.

Regular Item: These items generally require discussion between the Council and staff, boards, commissions, or consultants. These items are often accompanied by a formal presentation followed by discussion.

**[Public comment will not be accepted during Work Session
unless Council determines otherwise.]**

NOTICE: The City Council may recess from the open session and convene in a closed executive session if the discussion of any of the listed agenda items concerns one or more of the following matters:

(1) Pending/contemplated litigation, settlement offer(s), and matters concerning privileged and unprivileged client information deemed confidential by Rule 1.05 of the Texas Disciplinary Rules of Professional Conduct. Sec. 551.071, Tex. Gov't Code.

(2) The purchase, exchange, lease or value of real property, if the deliberation in an open meeting would have a detrimental effect on the position of the City in negotiations with a third person. Sec. 551.072, Tex. Gov't Code.

(3) A contract for a prospective gift or donation to the City, if the deliberation in an open meeting would have a detrimental effect on the position of the City in negotiations with a third person. Sec. 551.073, Tex. Gov't Code.

(4) Personnel matters involving the appointment, employment, evaluation, reassignment, duties, discipline or dismissal of a public officer or employee or to hear a complaint against an officer or employee. Sec. 551.074, Tex. Gov't Code.

(5) The deployment, or specific occasions for implementation of security personnel or devices. Sec. 551.076, Tex. Gov't Code.

(6) Discussions or deliberations regarding commercial or financial information that the City has received from a business prospect that the City seeks to have locate, stay, or expand in or near the territory of the City and with which the City is conducting economic development negotiations; or to deliberate the offer of a financial or other incentive to a business prospect of the sort described in this provision. Sec. 551.087, Tex. Gov't Code.

(7) Discussions, deliberations, votes, or other final action on matters related to the City's competitive activity, including information that would, if disclosed, give advantage to competitors or prospective competitors and is reasonably related to one or more of the following categories of information:

- generation unit specific and portfolio fixed and variable costs, including forecasts of those costs, capital improvement plans for generation units, and generation unit operating characteristics and outage scheduling;
- bidding and pricing information for purchased power, generation and fuel, and Electric Reliability Council of Texas bids, prices, offers, and related services and strategies;
- effective fuel and purchased power agreements and fuel transportation arrangements and contracts;
- risk management information, contracts, and strategies, including fuel hedging and storage;
- plans, studies, proposals, and analyses for system improvements, additions, or sales, other than transmission and distribution system improvements inside the service area for which the public power utility is the sole certificated retail provider; and
- customer billing, contract, and usage information, electric power pricing information, system load characteristics, and electric power marketing analyses and strategies. Sec. 551.086; Tex. Gov't Code; Sec. 552.133, Tex. Gov't Code]

1. Consider the Consent Agenda

A member of the City Council may ask for discussion or further information on an item posted as a consent agenda item on the next Regular Meeting of the City Council. The Council Member may also ask that an item on the posted consent agenda be pulled from the consent agenda and considered for a vote separate from consent agenda items on the regular agenda. All discussions or deliberations on this portion of the work session agenda are limited to posted agenda items and may not include a new or unposted subject matter.

2. Written Briefings:

a. Tax Roll Amendment

Council is requested to consider an amendment to the tax roll to reflect the uncollected ad valorem taxes. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 19, 2017 Regular Meeting.

b. Household Hazardous Waste Interlocal Agreement

Council is requested to consider approving a resolution authorizing the City Manager to renew an interlocal agreement with Dallas County to participate in the Dallas Area HHW Network. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 19, 2017 Regular Meeting.

c. Texas Department of Transportation (TxDOT) Selective Traffic Enforcement Program (STEP) 2018 Comprehensive Grant

Council is requested to consider accepting TxDOT Grant Funding for the Selective Traffic Enforcement Program (STEP) Comprehensive Grant for FY 2017-2018. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 5, 2017 Regular Meeting.

d. Resale of Tax Foreclosed Property - 116 S. 4th Street

Council is requested to consider approving the sale of 116 S. 4th Street to Duck Creek Commercial, LLC and provide an executed deed without warranty. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 19, 2017 Regular Meeting.

e. 2017 Edward Byrne Memorial Justice Assistance Grant (JAG)

Council is requested to consider approving the submission of the application to the Bureau of Justice Assistance. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 5, 2017 Regular Meeting.

f. Right of Way Conveyance to TxDOT

Council is requested to consider authorizing the City Manager to enter into an agreement with TxDOT to convey rights of way at SH 78 and Miller Road to TxDOT in lieu of a monetary payment to facilitate intersection improvements.

g. 2017 Homeland Security Grant Program Application Resolution

Council is requested to consider approving a resolution to support the 2017 Homeland Security Grant Program (HSGP) Application. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 19, 2017 Regular Meeting.

h. Updated COG Hazard Mitigation Action Plan Adoption

Council is requested to consider the adoption of the City of Garland updated Hazard Mitigation Action Plan. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 19, 2017 Regular Meeting.

3. Verbal Briefings:

a. Public Safety Committee (PSC) Report

Chief Bates, Staff Liaison to the Public Safety Committee, will provide a committee report on the following items:

- Review the top users of Police calls-for-service & the corresponding impact on Police Services*
- Review implementation process for the Public Safety Radio System*
- Review options for resolving parking in front of mailboxes that prevents mail service*

b. Consider and Approve Site for Development of Dog and Skate Park

Council is requested to consider Central Park as the location for development of the 2017 CIP funded dog park.

c. Harvey Relief Update

At the request of Council Member B.J. Williams, staff will brief Council regarding Garland's assistance with Hurricane Harvey rescue and relief efforts.

4. Discuss Appointments to Boards and Commissions

Mayor Douglas Athas

- John Kaiwi - Board of Adjustment
- Sal Liberto - Building and Fire Code Board
- Ken Risser - Citizens Environmental and Neighborhood Services Committee
- Jennifer Nguyen - Community Multicultural Commission
- Charles Pickitt - Community Multicultural Commission
- Ali Said - Community Multicultural Commission
- Kenneth Rogers - Community Multicultural Commission
- Joann Traylor - Garland Cultural Arts Commission
- Bettye Haynes - Library Board
- Elizabeth Berry - Parks and Recreation Board
- Shirley Robnett - Senior Citizens Advisory Board
- Allan Stafford - Tax Increment Finance District Board (Downtown)
- Morgan Jones - Tax Increment Finance District Board (South)
- Mark Tyler - Property Standards Board

5. Announce Future Agenda Items

A member of the City Council, with a second by another member, or the Mayor alone, may ask that an item be placed on a future agenda of the City Council or a committee of the City Council. No substantive discussion of that item will take place at this time.

6. Adjourn



City Council Work Session Agenda

2.a.

Meeting Date: September 5, 2017

Item Title: Tax Roll Amendment

Submitted By: Corey Worsham, Tax Administrator

Council Goal: Financially Stable Government with Tax Base that Supports Community Needs

ISSUE

Annually, the City Council is asked to consider an amendment to the tax roll removing the uncollectible ad valorem taxes as recommended by generally accepted accounting principles. Although the tax roll is reduced by this action, collection efforts will continue unless the costs of these efforts exceed the potential revenues.

OPTIONS

The City Council May:

1. Consider an ordinance during the September 19, 2017 City Council meeting to amend the tax roll by \$83,540.99.
2. Do not amend the City's tax roll.

RECOMMENDATION

Consider an amendment to the tax roll to reflect the uncollected ad valorem taxes. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 19, 2017 Regular Meeting.

BACKGROUND

Article IX, Section 3 of the City Charter authorizes the City Council to amend the tax roll for uncollectible ad valorem taxes. Furthermore, the Texas Property Tax Code section 33.05 limits the collection of real property taxes past 20 years and 10 years for business personal property. Amendment of the tax roll is necessary to meet generally accepted accounting principles, avoid overstating accounts receivables and avoid the potential risk of an unfavorable audit opinion.

CONSIDERATION

Amendments to the real property tax roll would include an amount of \$21,086.66 for tax year 1995. Amendments to the business personal property roll would include an amount of \$62,454.33 for tax years 2011-2012. The total amended amount is \$83,540.99. Amounts are requested for write-off only after they have remained uncollected for a period of at least four years (two years for bankruptcy settlements). Additionally, the City's collection attorney's, Perdue, Brandon, Fielder, Collins & Mott LLP, have performed extensive collection efforts in

order to recover the debt.

Attachments

2017 - Tax Roll Amendment Detail

2017 Ordinance to amend Tax Roll



GARLAND

RECAP SHEET FOR TAX ADJUSTMENTS

EXHIBIT A

REAL PROPERTY

<u>YEAR</u>		<u>AMOUNT</u>
1995	\$	21,086.66

TOTAL \$ 21,086.66

EXHIBIT B

PERSONAL PROPERTY

<u>YEAR</u>	<u>TYPE</u>		<u>AMOUNT</u>
2011	TAX	\$	238.57
2011	MISC	\$	23.86
2012	TAX	\$	57,570.60
2012	MISC	\$	4,621.30

TOTAL \$ 62,454.33

GRAND TOTAL: \$ 83,540.99

ADJUSTMENTS TO TAX ROLL
REAL PROPERTY
EXHIBIT A

YEAR	ACCOUNT #	CAD ACCOUNT #	OWNER NAME	LOCATION ADDRESS	AMOUNT	REASON
1996	215589	65115759710010100	Byrne Development Co	820 IH 30	\$ 339.10	Statute of Limitation Expired
1996	215148	65095209010010000	Cambridge Consolidated	2901 Centerville Rd	\$ 6,333.72	Statute of Limitation Expired
1996	186495	26596000010010000	Cascade Ppties Inc	202 IH 30	\$ 150.42	Statute of Limitation Expired
1996	212172	65002518610010100	Crawfprd Lenton & Leoma	1710 Rowlett Rd	\$ 52.53	Statute of Limitation Expired
1996	62196	26178420010012500	Empire S & L Assn of Mesq	3902 Easton Meadows Dr	\$ 111.20	Statute of Limitation Expired
1996	161757	26502500040110000	Ervin Alfred	241 E Marguerita Dr	\$ 125.77	Statute of Limitation Expired
1996	20646	26040750010010200	Foose C W Trustee	0 E I30 Frwy	\$ 13.12	Statute of Limitation Expired
1996	43152	26100500040050000	Garland City of	421 Ford St	\$ 26.71	Statute of Limitation Expired
1996	43170	26100500050030000	Garland City of	434 Ford St	\$ 51.32	Statute of Limitation Expired
1996	43290	26101500080100000	Garland City of	300 Hart St	\$ 51.32	Statute of Limitation Expired
1996	53109	26128500010020000	Garland City of	2000 N 1st St	\$ 842.75	Statute of Limitation Expired
1996	53115	26128500010030000	Garland City of	111 E Buckingham St	\$ 337.77	Statute of Limitation Expired
1996	53121	26128500010040000	Garland City of	121 E Buckingham St	\$ 335.74	Statute of Limitation Expired
1996	63789	26178650010010000	Garland City of	6125 Marvin Loving Dr	\$ 361.85	Statute of Limitation Expired
1996	63912	26178690010040000	Garland City of	1504 E IH 30	\$ 442.82	Statute of Limitation Expired
1996	63927	26178730010010000	Garland City of	4411 Bass Pro Dr	\$ 755.44	Statute of Limitation Expired
1996	79983	26240500050070000	Garland City of	228 Loma Dr	\$ 158.15	Statute of Limitation Expired
1996	80328	26242500030290000	Garland City of	1105 Glynn Dr	\$ 194.33	Statute of Limitation Expired
1996	121173	26361500030030000	Garland City of	1710 Burke Dr	\$ 31.68	Statute of Limitation Expired
1996	153183	26461500150240000	Garland City of	1510 High Meadow Dr	\$ 60.19	Statute of Limitation Expired
1996	154404	26468500050240000	Garland City of	517 Parker Cir	\$ 11.91	Statute of Limitation Expired
1996	161637	26502500020160000	Garland City of	260 E Maguerita Dr	\$ 63.23	Statute of Limitation Expired
1996	161856	26502500060070000	Garland City of	225 Casalita Dr	\$ 28.51	Statute of Limitation Expired
1996	179145	26574500030040000	Garland City of	814 Waikiki Dr	\$ 230.17	Statute of Limitation Expired
1996	198246	26629500010010100	Garland City of	414 S Barnes Dr	\$ 205.35	Statute of Limitation Expired
1996	212370	65006247510290000	Garland City of	2500 S Garland Ave	\$ 1,117.80	Statute of Limitation Expired
1996	213687	65054254010180000	Garland City of	4100 Naaman School	\$ 104.16	Statute of Limitation Expired
1996	214230	65074215010250000	Garland City of	502 E Kingsley Rd	\$ 82.81	Statute of Limitation Expired
1996	214449	6507613701002D400	Garland City of	5218 Duck Creek Dr	\$ 326.11	Statute of Limitation Expired
1996	214452	6507613701002D500	Garland City of	5218 Duck Creek Dr	\$ 326.11	Statute of Limitation Expired
1996	214455	6507613701002D600	Garland City of	5218 Duck Creek Dr	\$ 326.11	Statute of Limitation Expired
1996	214458	6507613701002D700	Garland City of	5218 Duck Creek Dr	\$ 326.11	Statute of Limitation Expired
1996	214893	65079157410230000	Garland City of	5520 Marina Dr	\$ 1,051.52	Statute of Limitation Expired

ADJUSTMENTS TO TAX ROLL
REAL PROPERTY
EXHIBIT A

YEAR	ACCOUNT #	CAD ACCOUNT #	OWNER NAME	LOCATION ADDRESS	AMOUNT	REASON
1996	215178	65095209110060000	Garland City of	2826 Centerville Rd	\$ 1,205.30	Statute of Limitation Expired
1996	215181	65095209110060100	Garland City of	522 Mills Rd	\$ 496.36	Statute of Limitation Expired
1996	215997	65148315070090200	Garland City of	475 Hopkins St	\$ 136.86	Statute of Limitation Expired
1996	216018	65148315070160000	Garland City of	238 E Ave B	\$ 50.69	Statute of Limitation Expired
1996	63957	261787400203A0000	Garland City of & et al	328 Oaks Trail	\$ 1,564.17	Statute of Limitation Expired
1996	43155	26100500040070000	Garland City of etal	417 Ford St	\$ 25.66	Statute of Limitation Expired
1996	216024	65148315070180000	Garland City of Etal	409 Hart St	\$ 27.88	Statute of Limitation Expired
1996	213174	65032447010120000	Garland I S D	930 N Country Club Rd	\$ 354.94	Statute of Limitation Expired
1996	215046	65094100510320000	Gilbert Warren A Jr	2501 Apollo Rd	\$ 115.00	Statute of Limitation Expired
1996	215550	65109912010280000	Hallauer W C & E Lassen	302 N Kirby St	\$ 4.56	Statute of Limitation Expired
1996	211728	60179500000040000	Indigo Builders Inc	4231 Rosehill Rd	\$ 208.90	Statute of Limitation Expired
1996	63930	26178730010010100	Joslin Dennis et al	4401 Chaha Rd	\$ 617.70	Statute of Limitation Expired
1996	214026	65073508610160000	Kyle Henry H	1903 S Glenbrook	\$ 6.34	Statute of Limitation Expired
1996	214890	65079157410220000	Lee Napoleon	5530 Marina Dr	\$ 281.51	Statute of Limitation Expired
1996	42708	26095500040260000	Lehew Don	1816 W Walnut	\$ 79.20	Statute of Limitation Expired
1996	18957	26019010000000000	LSB Corp	9999 Waterford Cir	\$ 0.63	Statute of Limitation Expired
1996	52272	26126600000000100	Mortgage Corp of Texas	4402 Crystal Ln	\$ 0.63	Statute of Limitation Expired
1996	52275	26126600000000200	Mortgage Corp of Texas	4314 Baccarat Dr	\$ 0.63	Statute of Limitation Expired
1996	215310	65103658010050100	Mortgage Corp of Texas	6401 Lyons Rd	\$ 29.97	Statute of Limitation Expired
1996	36624	26085500070430000	Oliver Gustine Estate	348 Arborview Dr	\$ 241.21	Statute of Limitation Expired
1996	213537	65048070910070100	Roan David Tr	1725 Highgate Pl	\$ 18.12	Statute of Limitation Expired
1996	166953	26520460010440000	Shiloh Springs Ptnshp	2551 Collins Blvd	\$ 133.06	Statute of Limitation Expired
1996	218571	65094502510110100	Shiloh Springs Ptnshp	2545 Collins Blvd	\$ 63.80	Statute of Limitation Expired
1996	154431	26468500060010000	Stephens Marilyn G	726 Parker Cir	\$ 15.84	Statute of Limitation Expired
1996	154464	26468500060120000	Stephens Marilyn G	610 Parker Cir	\$ 15.84	Statute of Limitation Expired
1996	63921	26178710030030100	Wildflower Dev Co	5700 Marvin Loving Dr	\$ 360.46	Statute of Limitation Expired
1996	51462	26124500110080000	Williams Sophie T	1520 Elizabeth Dr	\$ 55.57	Statute of Limitation Expired
					\$ 21,086.66	

\$ 21,086.66 TOTAL TAX AMOUNT (# OF RECORDS = 60)
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ADJUSTMENTS TO TAX ROLL
PERSONAL PROPERTY
EXHIBIT B

YEAR	ACCT#	CAD ACCOUNT#	NAME	TAX AMOUNT	MISC AMOUNT	REASON
2011	2622	99200021600129450	EZ African Food Store Inc	\$ 67.92	\$ 6.79	Statute of Limitations Expired
2011	10245	99942070000154300	Gallardo Martin	\$ 10.57	\$ 1.06	Statute of Limitations Expired
2011	9270	99922160000217500	Huynh David	\$ 67.85	\$ 6.79	Statute of Limitations Expired
2011	5562	99200225200204500	Kathy Danback Insurance Agency	\$ 13.74	\$ 1.37	Statute of Limitations Expired
2011	255303	99080128610000000	Luu Tuan & Rose	\$ 46.01	\$ 4.60	Statute of Limitations Expired
2011	246951	99051215116000000	Relief Medical Supplies	\$ 32.48	\$ 3.25	Statute of Limitations Expired
2011 TOTAL				\$ 238.57	\$ 23.86	

YEAR	ACCT#	CAD ACCOUNT#	NAME	TAX AMOUNT	MISC AMOUNT	REASON
2012	268059	99111019190000000	20 40 Resale Store The	\$ 219.34	\$ 21.93	Statute of Limitations Expired
2012	263187	99090810960000000	7M Distributors Inc	\$ 433.12	\$ 43.31	Statute of Limitations Expired
2012	267216	99111121970000000	Aguilera Jorje	\$ 146.23	\$ 14.63	Statute of Limitations Expired
2012	268101	99111019820000000	AK Used Car	\$ 188.27	\$ 18.83	Statute of Limitations Expired
2012	256116	99P10141300000000	Alains Navarrete Eduardo	\$ 16.25	\$ -	Statute of Limitations Expired
2012	13575	99982600000242250	Alexander Events Inc	\$ 331.51	\$ 33.15	Statute of Limitations Expired
2012	250791	99061024370000000	Alfaro Milton/C & M Used Cars II	\$ 7.89	\$ 0.79	Statute of Limitations Expired
2012	7167	99860020000894750	American Litho Graphics	\$ 435.35	\$ -	Statute of Limitations Expired
2012	3675	99200121400076100	Andrew Paving Construction Llp	\$ 3,749.74	\$ 374.97	Statute of Limitations Expired
2012	268302	99111121950000000	Arsenac Logistics Inc	\$ 32.27	\$ 3.23	Statute of Limitations Expired
2012	254559	99071002290000000	ATI Career Enterprises Inc	\$ 3,800.68	\$ -	Statute of Limitations Expired
2012	267966	99111006300000000	Augustine J Valadez	\$ 393.52	\$ 39.35	Statute of Limitations Expired
2012	268782	99120320280000000	Bagget Rory	\$ 120.56	\$ 12.06	Statute of Limitations Expired
2012	267747	99110824130000000	Bahama Beach Club	\$ 422.69	\$ 42.27	Statute of Limitations Expired
2012	267729	99110818100000000	Bakshi Sudershan	\$ 15.08	\$ 1.51	Statute of Limitations Expired
2012	273	99P38302000000000	Barnes Carl	\$ 26.63	\$ -	Statute of Limitations Expired
2012	264768	99P11010000000000	Barrett Motorsports Inc	\$ 386.54	\$ -	Statute of Limitations Expired
2012	267927	99111003700000000	Barrett Motorsports Inc	\$ 11.63	\$ 1.16	Statute of Limitations Expired
2012	247959	99060215270000000	Bernitez Eduardo	\$ 49.32	\$ 4.93	Statute of Limitations Expired
2012	264360	99100428230000000	Best Data Products Inc	\$ 7.05	\$ 0.71	Statute of Limitations Expired
2012	7551	99873070000043050	Black Dwayne	\$ 556.07	\$ -	Statute of Limitations Expired
2012	264366	99100428290000000	Blue Raven Technology	\$ 7.05	\$ 0.71	Statute of Limitations Expired

ADJUSTMENTS TO TAX ROLL
PERSONAL PROPERTY
EXHIBIT B

YEAR	ACCT#	CAD ACCOUNT#	NAME	TAX AMOUNT	MISC AMOUNT	REASON
2012	268014	99111017190000000	Blumarc Roofing and Exteriors	\$ 57.35	\$ 5.74	Statute of Limitations Expired
2012	268275	99111166600000000	Boost Mobile	\$ 5.43	\$ 0.54	Statute of Limitations Expired
2012	265602	99100907170000000	Botanica Marisol	\$ 6.69	\$ 0.67	Statute of Limitations Expired
2012	269427	99121102500000000	BQC Home Health Agency Inc	\$ 34.67	\$ 3.47	Statute of Limitations Expired
2012	4452	99200200300099300	Brito Maria	\$ 38.47	\$ 3.85	Statute of Limitations Expired
2012	267795	99110906380000000	Broadway Wine Llc	\$ 246.96	\$ 24.70	Statute of Limitations Expired
2012	257883	99081013920000000	Buena Vida Hcs Inc	\$ 29.45	\$ 2.95	Statute of Limitations Expired
2012	8508	99902190000075350	Bukin Lynne	\$ 135.57	\$ 13.56	Statute of Limitations Expired
2012	263613	99091002600000000	Bullit Jerry	\$ 39.88	\$ 3.99	Statute of Limitations Expired
2012	262986	99091029350000000	Candie Jannie	\$ 7.54	\$ 0.75	Statute of Limitations Expired
2012	239658	99200334600031950	Carefirst	\$ 56.65	\$ 5.67	Statute of Limitations Expired
2012	258801	99930540000100000	Cars For Cash Inc	\$ 17.19	\$ 1.72	Statute of Limitations Expired
2012	269451	99121203670000000	Cash 4 Gold	\$ 131.55	\$ 13.16	Statute of Limitations Expired
2012	268851	99120327113000000	Cecilia	\$ 17.54	\$ 1.75	Statute of Limitations Expired
2012	268707	99120301410000000	Celairo Wireless	\$ 56.37	\$ 5.64	Statute of Limitations Expired
2012	268137	99111024260000000	Centro Bienstart Natural	\$ 9.02	\$ 0.90	Statute of Limitations Expired
2012	257790	99081006930000000	Centro De Nutricion	\$ 176.85	\$ 17.69	Statute of Limitations Expired
2012	269253	99P113295000000000	Chavez Enrique	\$ 85.14	\$ -	Statute of Limitations Expired
2012	267768	99110831150000000	Chosen Sanctuary of Christian	\$ 4.65	\$ 0.47	Statute of Limitations Expired
2012	250641	99061012160000000	CJR Marketing Inc	\$ 137.75	\$ 13.78	Statute of Limitations Expired
2012	264531	99200324700063850	CMS Inc	\$ 223.36	\$ 22.34	Statute of Limitations Expired
2102	262791	99090909170000000	Com Tam Saigon	\$ 14.02	\$ 1.40	Statute of Limitations Expired
2012	268524	99120110300000000	Common Reception Executives	\$ 25.79	\$ 2.58	Statute of Limitations Expired
2012	267735	99110818600000000	Complete System Balance	\$ 19.94	\$ 1.99	Statute of Limitations Expired
2012	263046	99091217183000000	Computer James/Computers	\$ 20.72	\$ 2.07	Statute of Limitations Expired
2012	262668	99090827310000000	Computers & More	\$ 16.49	\$ 1.65	Statute of Limitations Expired
2012	268635	99120201930000000	Computers 911	\$ 46.71	\$ 4.67	Statute of Limitations Expired
2012	267786	99110831700000000	Contreras Marisella	\$ 55.24	\$ -	Statute of Limitations Expired
2012	267921	99111003640000000	Contreras Rudy	\$ 41.01	\$ 4.10	Statute of Limitations Expired
2012	267924	99111000365000000	Contreras Rudy	\$ 12.68	\$ 1.27	Statute of Limitations Expired
2012	268230	99111103400000000	Coras Hair Design	\$ 14.44	\$ 1.44	Statute of Limitations Expired
2012	268779	99120320190000000	Cox Wyatt J II	\$ 142.82	\$ 14.28	Statute of Limitations Expired
2012	268503	99120109390000000	Creative Diagnostics	\$ 116.12	\$ 11.61	Statute of Limitations Expired

ADJUSTMENTS TO TAX ROLL
PERSONAL PROPERTY
EXHIBIT B

YEAR	ACCT#	CAD ACCOUNT#	NAME	TAX AMOUNT	MISC AMOUNT	REASON
2012	263298	99090903770000000	Crews Mike	\$ 11.13	\$ 1.11	Statute of Limitations Expired
2012	268257	99111116420000000	Cristinas Appliances	\$ 120.06	\$ 12.01	Statute of Limitations Expired
2012	263922	99100125112000000	Crystal Salon De Fiestas	\$ 244.43	\$ 24.44	Statute of Limitations Expired
2012	258942	99P10433200000000	Cubas Luis E and Mendiola Gust	\$ 36.92	\$ -	Statute of Limitations Expired
2012	5172	99200225200098050	Dairyland Printing	\$ 8.03	\$ 0.80	Statute of Limitations Expired
2012	678	99000000041800000	Dalco Solvents & Chemicals Inc	\$ 989.89	\$ 98.99	Statute of Limitations Expired
2012	247554	99060126180000000	Dalton Eddie	\$ 37.98	\$ 3.80	Statute of Limitations Expired
2012	267846	99110914170000000	Dang Steve	\$ 184.89	\$ 18.49	Statute of Limitations Expired
2012	268872	99120327570000000	Dasaraju Jayalakshmi	\$ 35.23	\$ 3.52	Statute of Limitations Expired
2012	268296	99111121440000000	Davalos Cabinets and Millwork	\$ 113.09	\$ 11.31	Statute of Limitations Expired
2012	269388	99120815370000000	Davis Coaching	\$ 14.09	\$ 1.41	Statute of Limitations Expired
2012	265764	99100929860000000	Destiny Auto World Inc	\$ 41.22	\$ 4.12	Statute of Limitations Expired
2012	255996	99L08192000000000	DFW Excel Amusements Inc	\$ 1.83	\$ -	Statute of Limitations Expired
2012	268515	99120110200000000	DFW Rehab & Diagnostics	\$ 81.80	\$ 8.18	Statute of Limitations Expired
2012	8604	999030600000031400	Dixie Precision Inc	\$ 487.79	\$ 48.78	Statute of Limitations Expired
2012	263463	99090916121000000	Dodd Albert	\$ 6.83	\$ 0.68	Statute of Limitations Expired
2012	265416	99100728400000000	Dreams Supplies LLC	\$ 11.27	\$ 1.13	Statute of Limitations Expired
2012	267015	99P11035200000000	Dreams Supplies LLC	\$ 70.46	\$ -	Statute of Limitations Expired
2012	265491	99100826150000000	Durango Mechanic Inc	\$ 154.02	\$ 15.40	Statute of Limitations Expired
2012	6012	99813640000471400	ET Automotive Inc	\$ 4,016.85	\$ 401.69	Statute of Limitations Expired
2012	268521	99120110280000000	El Sol Tam	\$ 48.27	\$ 4.83	Statute of Limitations Expired
2012	268149	99111026320000000	Elliott Tiffany Nicole	\$ 45.87	\$ 4.59	Statute of Limitations Expired
2012	254562	99071002340000000	EMG Transmissions	\$ 8.38	\$ 0.84	Statute of Limitations Expired
2012	14376	99992310000215500	Emilio Eddie/Sols Nieto Fajitas	\$ 74.90	\$ 7.49	Statute of Limitations Expired
2012	268053	99111018380000000	Enrique Car Service	\$ 254.29	\$ 25.43	Statute of Limitations Expired
2012	6750	99850030000438650	Eric Japan Engines Inc	\$ 1,614.10	\$ -	Statute of Limitations Expired
2012	251142	99061220900000000	Esin Joseph Dr	\$ 22.76	\$ 2.28	Statute of Limitations Expired
2012	238794	99200301800016000	Europhil Auto Services	\$ 121.33	\$ 12.13	Statute of Limitations Expired
2012	268128	99111020540000000	Everlucet Media Solutuions Inc	\$ 350.68	\$ 35.07	Statute of Limitations Expired
2012	267936	99111003850000000	Expert Remodeling Inc	\$ 14.44	\$ -	Statute of Limitations Expired
2012	255168	99080103190000000	Eyo B Oyo	\$ 5.14	\$ 0.51	Statute of Limitations Expired
2012	247038	99051221540000000	FAMA Academia De Musica	\$ 106.39	\$ 10.64	Statute of Limitations Expired
2012	251931	99200334600302050	Family Medical Equipment	\$ 58.98	\$ 5.90	Statute of Limitations Expired

ADJUSTMENTS TO TAX ROLL
PERSONAL PROPERTY
EXHIBIT B

YEAR	ACCT#	CAD ACCOUNT#	NAME	TAX AMOUNT	MISC AMOUNT	REASON
2012	268839	991203269700000000	Fierro Ruth	\$ 7.54	\$ 0.75	Statute of Limitations Expired
2012	252288	990710084100000000	Fish Head Fixtures Inc	\$ 1,043.16	\$ 104.32	Statute of Limitations Expired
2012	263820	991001044400000000	Flor De Michoacan	\$ 25.79	\$ 2.58	Statute of Limitations Expired
2012	266463	991102071900000000	Flores Nelson	\$ 285.08	\$ 28.51	Statute of Limitations Expired
2012	268572	991201122700000000	Flores Ruth	\$ 5.35	\$ 0.54	Statute of Limitations Expired
2012	267831	991109066200000000	Foley Rory	\$ 28.18	\$ -	Statute of Limitations Expired
2012	268170	991110264700000000	Forsyth Josh	\$ 32.55	\$ 3.26	Statute of Limitations Expired
2012	244827	990507141000000000	Fritts Jim/Awards to Go	\$ 193.34	\$ 19.33	Statute of Limitations Expired
2012	246843	990511151500000000	Future Signs Inc/Ziad Dekelbab	\$ 123.94	\$ 12.39	Statute of Limitations Expired
2012	10245	99942070000154300	Gallardo Martin	\$ 10.57	\$ 1.06	Statute of Limitations Expired
2012	239019	99200324700145900	Garland Rehabilitation Insitute	\$ 359.98	\$ 36.00	Statute of Limitations Expired
2012	263310	990909038800000000	Gates Marshall	\$ 103.86	\$ 10.39	Statute of Limitations Expired
2012	268638	991202019400000000	Global Enterprise	\$ 51.93	\$ 5.19	Statute of Limitations Expired
2012	265425	991007287500000000	Global Pros Llc	\$ 35.23	\$ 3.52	Statute of Limitations Expired
2012	267045	99P111491000000000	Global Pros Llc	\$ 4.66	\$ -	Statute of Limitations Expired
2012	258180	990812152400000000	Goffin Harold	\$ 20.43	\$ 2.04	Statute of Limitations Expired
2012	12381	99971150000168950	Goldentel Inc	\$ 3.10	\$ 0.31	Statute of Limitations Expired
2012	268341	991112052600000000	Gonzales Juan Carlos	\$ 56.79	\$ 5.68	Statute of Limitations Expired
2012	267027	99P110912000000000	Gonzalez Carlos Augusto	\$ 169.95	\$ -	Statute of Limitations Expired
2012	254616	990710111900000000	Griffith Dean	\$ 30.02	\$ 3.00	Statute of Limitations Expired
2012	268119	991110201700000000	Grupo Nuevo Despertar	\$ 4.23	\$ 0.42	Statute of Limitations Expired
2012	255501	990804031700000000	Hair Illusions The Next Phase	\$ 21.00	\$ 2.10	Statute of Limitations Expired
2012	267834	991109066400000000	Health Is Life	\$ 5.00	\$ 0.50	Statute of Limitations Expired
2012	268842	991203269900000000	Helisondo David	\$ 17.33	\$ 1.73	Statute of Limitations Expired
2012	2565	99200021600098500	Hencie International Inc	\$ 529.58	\$ 52.96	Statute of Limitations Expired
2012	852	99000000074630000	Henderson C D Ltd	\$ 1,752.48	\$ 175.25	Statute of Limitations Expired
2012	265473	991008251000000000	Herbal Life	\$ 18.74	\$ 1.87	Statute of Limitations Expired
2012	268758	991203163000000000	Hernandez Elsa	\$ 81.45	\$ 8.15	Statute of Limitations Expired
2012	264771	99P111112000000000	Hernandez Rosa	\$ 276.95	\$ -	Statute of Limitations Expired
2012	262731	990909085700000000	Hoang Yen Restaurant & Bar	\$ 135.99	\$ 13.60	Statute of Limitations Expired
2012	262992	990910293800000000	Hollins Darren	\$ 21.42	\$ 2.14	Statute of Limitations Expired
2012	263241	990908274700000000	Hollywood Beauty Salon	\$ 260.42	\$ 26.04	Statute of Limitations Expired
2012	247020	990512213300000000	Home Grocery	\$ 45.73	\$ 4.57	Statute of Limitations Expired

ADJUSTMENTS TO TAX ROLL
PERSONAL PROPERTY
EXHIBIT B

YEAR	ACCT#	CAD ACCOUNT#	NAME	TAX AMOUNT	MISC AMOUNT	REASON
2012	251973	99850770000003400	Horton Jason	\$ 2,536.28	\$ 253.63	Statute of Limitations Expired
2012	9270	99922160000217500	Huynh David	\$ 67.85	\$ 6.79	Statute of Limitations Expired
2012	268392	99111212640000000	I Love Café	\$ 45.38	\$ 4.54	Statute of Limitations Expired
2012	263838	99100104690000000	I3 Constrution	\$ 65.18	\$ 6.52	Statute of Limitations Expired
2012	268029	99111017360000000	Iglesia Cristiana Peniel	\$ 15.22	\$ 1.52	Statute of Limitations Expired
2012	269127	99200210700004300	Image Plus Dental Llc	\$ 182.98	\$ 18.30	Statute of Limitations Expired
2012	257700	99080924330000000	Instant Tax Service	\$ 41.22	\$ 4.12	Statute of Limitations Expired
2012	263862	99100106230000000	Integrity Home Heath LLC	\$ 15.43	\$ 1.54	Statute of Limitations Expired
2012	268395	99111214100000000	International Mutual Financial	\$ 31.00	\$ 3.10	Statute of Limitations Expired
2012	263805	99091228530000000	Internet Saigon	\$ 46.50	\$ 4.65	Statute of Limitations Expired
2012	254598	99071009130000000	Jeannie Rudisill	\$ 4,978.56	\$ 497.86	Statute of Limitations Expired
2012	268848	99120327111000000	Jeny	\$ 21.84	\$ 2.18	Statute of Limitations Expired
2012	267699	99110322440000000	Jerger Charles	\$ 260.63	\$ -	Statute of Limitations Expired
2012	266268	99110105410000000	Jerrys Auto Repair	\$ 35.86	\$ 3.59	Statute of Limitations Expired
2012	269391	99120815380000000	Jones A	\$ 14.09	\$ 1.41	Statute of Limitations Expired
2012	256128	99P10179300000000	Jordan Willis	\$ 211.38	\$ -	Statute of Limitations Expired
2012	266160	99101208980000000	Joy Tubervilles USA Karate	\$ 175.52	\$ 17.55	Statute of Limitations Expired
2012	268068	99111019400000000	Jps Enterprise Inc	\$ 84.27	\$ 8.43	Statute of Limitations Expired
2012	266532	99110330300000000	Kadler Mohammad Abdel	\$ 100.48	\$ 10.05	Statute of Limitations Expired
2012	268752	99120316160000000	Kadler Mohammad Abdel	\$ 26.42	\$ 2.64	Statute of Limitations Expired
2012	248028	99060308530000000	Kesler Keith and Tonyua	\$ 335.04	\$ 33.50	Statute of Limitations Expired
2012	268188	99111027120000000	Kingz Motors	\$ 17.62	\$ 1.76	Statute of Limitations Expired
2012	267732	99110818400000000	Kirscxhenmann Tristan	\$ 21.63	\$ 2.16	Statute of Limitations Expired
2012	11556	99962980000087700	Krasniqi Nazmi	\$ 256.83	\$ 25.68	Statute of Limitations Expired
2012	265812	99101012500000000	La Barata	\$ 106.89	\$ 10.69	Statute of Limitations Expired
2012	264411	99100428790000000	Lang Holdings	\$ 7.05	\$ 0.71	Statute of Limitations Expired
2012	247854	99060208590000000	Lara Carlos	\$ 43.47	\$ 4.35	Statute of Limitations Expired
2012	239430	99200324700202350	Last Frontier Auto Sales Corp	\$ 436.99	\$ 43.70	Statute of Limitations Expired
2012	453	99P48317000000000	Last Frontier Auto Sales Corp	\$ 225.74	\$ -	Statute of Limitations Expired
2012	256155	99P57416000000000	Lester Timothy	\$ 24.80	\$ -	Statute of Limitations Expired
2012	268560	99120111290000000	LG Motors	\$ 11.63	\$ 1.16	Statute of Limitations Expired
2012	263547	99090237100000000	Ln Car Sales Inc	\$ 3.66	\$ 0.37	Statute of Limitations Expired
2012	255303	99080128610000000	Luu Tuan & Rose	\$ 46.01	\$ 4.60	Statute of Limitations Expired

ADJUSTMENTS TO TAX ROLL
PERSONAL PROPERTY
EXHIBIT B

YEAR	ACCT#	CAD ACCOUNT#	NAME	TAX AMOUNT	MISC AMOUNT	REASON
2012	9609	99932280000157750	M D Bowers Inc	\$ 193.69	\$ 19.37	Statute of Limitations Expired
2012	10542	99950170000039600	Magic Food Mart	\$ 243.51	\$ 24.35	Statute of Limitations Expired
2012	265359	99060919560000000	Maina John	\$ 20.01	\$ -	Statute of Limitations Expired
2012	268434	99111221450000000	Maknojia Sarf	\$ 647.67	\$ 64.77	Statute of Limitations Expired
2012	266097	99101124800000000	Manasri Boon	\$ 12.75	\$ 1.28	Statute of Limitations Expired
2012	268407	99111214270000000	Marias Mexican Food	\$ 111.75	\$ -	Statute of Limitations Expired
2012	268863	99120327430000000	Marker	\$ 26.92	\$ 2.69	Statute of Limitations Expired
2012	5268	99200225200103950	Mars Auto Repair	\$ 9.30	\$ 0.93	Statute of Limitations Expired
2012	268311	99111122220000000	Martin Used Autos	\$ 36.92	\$ -	Statute of Limitations Expired
2012	242961	99050517260000000	Martinelli Ronald	\$ 31.71	\$ 3.17	Statute of Limitations Expired
2012	271335	99131106230000000	Martinez Jaime	\$ 140.85	\$ 14.09	Statute of Limitations Expired
2012	267210	99061228180000000	Martinez Jeff	\$ 75.04	\$ 7.50	Statute of Limitations Expired
2012	268686	99120207270000000	Masih Nasir and Parveen Kalara	\$ 182.35	\$ 18.24	Statute of Limitations Expired
2012	268443	99111222260000000	Massage Virtue Llc	\$ 37.06	\$ -	Statute of Limitations Expired
2012	268173	99111026480000000	Mcclure Ken	\$ 484.13	\$ 48.41	Statute of Limitations Expired
2012	11046	99952150000198400	Mcclure Richard	\$ 85.82	\$ 8.58	Statute of Limitations Expired
2012	267264	99120103320000000	Mccoy Linda	\$ 16.14	\$ 1.61	Statute of Limitations Expired
2012	266253	99101222460000000	Mcraw Willard	\$ 45.94	\$ 4.59	Statute of Limitations Expired
2012	268875	99110331129000000	Mehlhoff Vanessa	\$ 35.23	\$ 3.52	Statute of Limitations Expired
2012	255282	99080124210000000	Menos Paint & Body	\$ 41.57	\$ 4.16	Statute of Limitations Expired
2012	268710	99120301430000000	Metrocall Wireless Inc	\$ 56.37	\$ 5.64	Statute of Limitations Expired
2012	11064	99952150000208650	Millen Alice & Mike	\$ 391.12	\$ 39.11	Statute of Limitations Expired
2012	268665	99120202980000000	Mitchell Donna	\$ 249.92	\$ 24.99	Statute of Limitations Expired
2012	268590	99120117510000000	Monroy Dela Garza	\$ 17.76	\$ 1.78	Statute of Limitations Expired
2012	268260	99111116470000000	Moran Zumma	\$ 125.91	\$ 12.59	Statute of Limitations Expired
2012	9345	99930540000028550	MSLGM LLC	\$ 61.30	\$ -	Statute of Limitations Expired
2012	267036	99P111103000000000	Munguia Lucas	\$ 70.46	\$ -	Statute of Limitations Expired
2012	267285	99120207150000000	Mwinga Kennedy	\$ 8.74	\$ -	Statute of Limitations Expired
2012	263784	99091223270000000	Natures Way	\$ 14.30	\$ 1.43	Statute of Limitations Expired
2012	268677	99120207190000000	Navarro Maria	\$ 26.14	\$ 2.61	Statute of Limitations Expired
2012	264036	99100127320000000	Nelsons Karate Do	\$ 21.63	\$ 2.16	Statute of Limitations Expired
2012	268704	99120228510000000	Netport Health Ltd	\$ 52.85	\$ 5.29	Statute of Limitations Expired
2012	9636	99932280000161300	Nguyen Le	\$ 51.22	\$ 5.12	Statute of Limitations Expired

ADJUSTMENTS TO TAX ROLL
PERSONAL PROPERTY
EXHIBIT B

YEAR	ACCT#	CAD ACCOUNT#	NAME	TAX AMOUNT	MISC AMOUNT	REASON
2012	262776	99090908750000000	Nguyen Terry	\$ 409.80	\$ 40.98	Statute of Limitations Expired
2012	262815	99090909800000000	Nha Trang Quan	\$ 71.16	\$ 7.12	Statute of Limitations Expired
2012	247953	99060215240000000	Niamatali Habiboola	\$ 50.80	\$ 5.08	Statute of Limitations Expired
2012	255951	99B03137000000000	Nortex Water Sports Inc	\$ 140.92	\$ -	Statute of Limitations Expired
2012	24726	99060214101000000	North Texas Recovery Center	\$ 24.59	\$ 2.46	Statute of Limitations Expired
2012	247914	99060213560000000	Nunez Auto Repair	\$ 31.00	\$ 3.10	Statute of Limitations Expired
2012	2703	99200021600169150	Nye John/Auditax	\$ 10.71	\$ 1.07	Statute of Limitations Expired
2012	3087	99200029800221150	Oneil Relocation	\$ 3,021.25	\$ 302.13	Statute of Limitations Expired
2012	265368	99071004270000000	Open Door Realtors Llc	\$ 16.91	\$ -	Statute of Limitations Expired
2012	267201	99111103180000000	Opposition Inc	\$ 106.68	\$ 10.67	Statute of Limitations Expired
2012	257778	99081006720000000	Ortiz Erique	\$ 66.58	\$ 6.66	Statute of Limitations Expired
2012	4023	99200126700168050	OU K W & Colnc	\$ 99.14	\$ 9.91	Statute of Limitations Expired
2012	238668	99030923093422773	Owkilage Celetine	\$ 131.69	\$ 13.17	Statute of Limitations Expired
2012	243867	99200408300124000	P H P Enterprises Inc	\$ 84.55	\$ 8.46	Statute of Limitations Expired
2012	8148	99892330000178100	Pace III Inc	\$ 152.97	\$ 15.30	Statute of Limitations Expired
2012	265194	99L105819000000000	Pacific American Capital Llc	\$ 255.28	\$ 25.53	Statute of Limitations Expired
2012	267993	91110124100000000	Pareo Ventures LLC	\$ 447.14	\$ 44.71	Statute of Limitations Expired
2012	1908	99030410093904640	Parsani June	\$ 9.86	\$ 0.99	Statute of Limitations Expired
2012	265503	99100826500000000	Party Land Party Supplies	\$ 32.90	\$ 3.29	Statute of Limitations Expired
2012	240105	99200334600383900	Pascual Ochoa	\$ 45.31	\$ -	Statute of Limitations Expired
2012	263436	99090914740000000	Peaceway Community Church	\$ 5.50	\$ -	Statute of Limitations Expired
2012	268773	99120316900000000	Perez Jose & Garcia Jorge	\$ 60.38	\$ 6.04	Statute of Limitations Expired
2012	255066	99071210320000000	Perez Rafael	\$ 17.83	\$ 1.78	Statute of Limitations Expired
2012	268278	99111121104000000	Perfected Praise	\$ 5.50	\$ 0.55	Statute of Limitations Expired
2012	266304	99110111350000000	Perry Hardwood Flooring	\$ 92.02	\$ 9.20	Statute of Limitations Expired
2012	11307	999625600000000300	Phan Dinh Chinh & Lan Thily	\$ 316.37	\$ 31.64	Statute of Limitations Expired
2012	266844	99200225200019450	Physicians Choicemedical Equip	\$ 29.03	\$ 2.90	Statute of Limitations Expired
2012	239232	9920032470018380	Pollo Salsa	\$ 211.80	\$ 21.18	Statute of Limitations Expired
2012	258171	99081215170000000	Poum Linda/RP Motor Sports	\$ 17.62	\$ 1.76	Statute of Limitations Expired
2012	263937	99100125470000000	Precious Products Llc	\$ 10.64	\$ 1.06	Statute of Limitations Expired
2012	263541	99090923680000000	Pride E M S	\$ 640.06	\$ 64.01	Statute of Limitations Expired
2012	265554	99100901430000000	Punsopa Muay Thai	\$ 12.12	\$ 1.21	Statute of Limitations Expired
2012	225684	99200334600031250	QCMC Inc	\$ 71.16	\$ 7.12	Statute of Limitations Expired

ADJUSTMENTS TO TAX ROLL
PERSONAL PROPERTY
EXHIBIT B

YEAR	ACCT#	CAD ACCOUNT#	NAME	TAX AMOUNT	MISC AMOUNT	REASON
2012	239709	99200334600052400	R & R Motors	\$ 33.96	\$ 3.40	Statute of Limitations Expired
2012	265650	99100915320000000	Rajan Abraham	\$ 62.43	\$ 6.24	Statute of Limitations Expired
2012	264327	99100428109000000	Rakstak Enterprises	\$ 7.05	\$ 0.71	Statute of Limitations Expired
2012	254850	99071112100000000	Ramirez Phillip	\$ 33.75	\$ 3.38	Statute of Limitations Expired
2012	266187	99101215440000000	Ranger Plumbing Llc	\$ 1,200.85	\$ -	Statute of Limitations Expired
2012	246951	99051215116000000	Relief Medical Supplies	\$ 33.19	\$ 3.32	Statute of Limitations Expired
2012	268518	99120110220000000	Remenington Roofer	\$ 22.83	\$ 2.28	Statute of Limitations Expired
2012	268044	99111018150000000	Restaurant Tres Paises	\$ 179.18	\$ 17.92	Statute of Limitations Expired
2012	254790	99071106320000000	Restaurante Y Taqueria Lupitas	\$ 251.26	\$ 25.13	Statute of Limitations Expired
2012	2715	99200021600169450	Rhylan Insurance Agency Inc	\$ 39.95	\$ -	Statute of Limitations Expired
2012	250668	99061016360000000	Ritz Camera & Image Llc	\$ 723.48	\$ -	Statute of Limitations Expired
2012	267723	99110728280000000	Road Speed Auto Brokers Llc	\$ 17.40	\$ 1.74	Statute of Limitations Expired
2012	265584	99100902580000000	Robinson Nicole	\$ 14.94	\$ 1.49	Statute of Limitations Expired
2012	265485	99100826110000000	Rodriguez Concrete Service	\$ 161.49	\$ 16.15	Statute of Limitations Expired
2012	266535	99110331120000000	Rush Matthew	\$ 7.05	\$ 0.71	Statute of Limitations Expired
2012	254628	99071015600000000	Rusty Buffalo Co The	\$ 208.63	\$ 20.86	Statute of Limitations Expired
2012	263514	99090923520000000	Saad Imad	\$ 6.62	\$ 0.66	Statute of Limitations Expired
2012	266706	99110418330000000	Sackor	\$ 30.09	\$ 3.01	Statute of Limitations Expired
2012	271377	99140107250000000	Sarifine Ortega	\$ 67.29	\$ 6.73	Statute of Limitations Expired
2012	265620	99100914320000000	Saturn Discount Tobacco	\$ 89.13	\$ 8.91	Statute of Limitations Expired
2012	10455	99943120000021400	Schefer Evanor	\$ 76.24	\$ 7.62	Statute of Limitations Expired
2012	268464	99120103310000000	Schonfeld Lonny	\$ 12.47	\$ 1.25	Statute of Limitations Expired
2012	267969	99111006400000000	Scott Rebecca	\$ 208.00	\$ 41.60	Statute of Limitations Expired
2012	268041	99111018130000000	Seigle Tomeiko	\$ 13.95	\$ 1.40	Statute of Limitations Expired
2012	267777	99110831540000000	Shepherds House The	\$ 4.65	\$ 0.47	Statute of Limitations Expired
2012	267951	99111005220000000	Sheridan Inc	\$ 4.93	\$ 0.49	Statute of Limitations Expired
2012	247629	99060129600000000	Shuttleworth Gary	\$ 61.30	\$ 6.13	Statute of Limitations Expired
2012	258969	99P10547300000000	Silver City Auto Sales Inc	\$ 103.72	\$ -	Statute of Limitations Expired
2012	247563	99060126500000000	Smith Larry	\$ 88.15	\$ 8.82	Statute of Limitations Expired
2012	268629	99120201106000000	Smith Mark	\$ 102.59	\$ 10.26	Statute of Limitations Expired
2012	267918	99111003620000000	Smith Sherilyn	\$ 41.99	\$ 4.20	Statute of Limitations Expired
2012	264336	99100428119000000	Solo Intl Corp	\$ 7.05	\$ 0.71	Statute of Limitations Expired
2012	263070	99091228240000000	Sorto Luis	\$ 21.42	\$ 2.14	Statute of Limitations Expired
2012	264288	99100413730000000	Sosa Jose	\$ 81.03	\$ 8.10	Statute of Limitations Expired

ADJUSTMENTS TO TAX ROLL
PERSONAL PROPERTY
EXHIBIT B

YEAR	ACCT#	CAD ACCOUNT#	NAME	TAX AMOUNT	MISC AMOUNT	REASON
2012	265518	99100830400000000	South Side Engineering Llc	\$ 104.84	\$ 10.48	Statute of Limitations Expired
2012	248463	99060518860000000	Spencer Sherrie	\$ 6.91	\$ 0.69	Statute of Limitations Expired
2012	248007	99060216770000000	Sperber Bruno	\$ 22.62	\$ 2.26	Statute of Limitations Expired
2012	267039	99P111232000000000	Starlight Associates	\$ 70.46	\$ -	Statute of Limitations Expired
2012	268554	99120111190000000	State Street Antique Mall	\$ 158.39	\$ 15.84	Statute of Limitations Expired
2012	267675	99091111850000000	Stepping Stones to Success Llc	\$ 93.01	\$ 9.30	Statute of Limitations Expired
2012	263121	99100407104000000	Stoker Tina	\$ 11.13	\$ 1.11	Statute of Limitations Expired
2012	268458	99120103260000000	Swindell Gary	\$ 95.26	\$ 9.53	Statute of Limitations Expired
2012	250809	99061030120000000	Swinners Betty	\$ 38.75	\$ 3.88	Statute of Limitations Expired
2012	240066	99200334600376700	T D Fashions Inc	\$ 57.64	\$ 5.76	Statute of Limitations Expired
2012	267819	99110906520000000	T Shirts Outlet	\$ 407.26	\$ 40.73	Statute of Limitations Expired
2012	267765	99110831130000000	Tabernacle of Praise Evangelis	\$ 33.96	\$ 3.40	Statute of Limitations Expired
2012	11496	99962560000213450	Tadia Jose	\$ 129.86	\$ 12.99	Statute of Limitations Expired
2012	243831	99200408300123400	Taqueria Diana	\$ 52.85	\$ -	Statute of Limitations Expired
2012	267909	99111003530000000	The Kiddie Wearhouse	\$ 225.61	\$ 22.56	Statute of Limitations Expired
2012	267204	99111103200000000	The Trailersmith Llc	\$ 60.03	\$ 6.00	Statute of Limitations Expired
2012	263169	99080213580000000	Toddler Tune Development	\$ 56.23	\$ 5.62	Statute of Limitations Expired
2012	5886	99200301800166350	Tomorrow Wireless	\$ 33.19	\$ 3.32	Statute of Limitations Expired
2012	268356	99111206120000000	Toro Records Llc	\$ 128.03	\$ 12.80	Statute of Limitations Expired
2012	266076	99101124120000000	Tran Michael	\$ 31.85	\$ 3.19	Statute of Limitations Expired
2012	264342	99100428127000000	Trident Press Intl	\$ 7.05	\$ 0.71	Statute of Limitations Expired
2012	264138	99100224160000000	Tuggle Jeramy	\$ 3.52	\$ 0.35	Statute of Limitations Expired
2012	263220	99090827230000000	Tuniyants Arman	\$ 26.07	\$ 2.61	Statute of Limitations Expired
2012	241185	99200334600221600	Tycoon Conoco	\$ 106.39	\$ 10.64	Statute of Limitations Expired
2012	2166	99199929900129650	V3 Investments Lp	\$ 355.89	\$ -	Statute of Limitations Expired
2012	14304	99992310000179700	V3 Investments Lp	\$ 5.28	\$ -	Statute of Limitations Expired
2012	265914	99101020160000000	Vargas Mario	\$ 41.43	\$ 4.14	Statute of Limitations Expired
2012	268806	99120322171000000	Vasquez Armando	\$ 21.42	\$ 2.14	Statute of Limitations Expired
2012	266619	99110405400000000	Vasquez Isidro	\$ 35.23	\$ 3.52	Statute of Limitations Expired
2012	258972	99P105659000000000	Vehicle Inc	\$ 75.72	\$ -	Statute of Limitations Expired
2012	264174	99100316140000000	Vehicle Inc	\$ 78.92	\$ 7.89	Statute of Limitations Expired
2012	254658	99071017420000000	Victors Garage	\$ 24.94	\$ 2.49	Statute of Limitations Expired
2012	265986	99101110300000000	Viet Today	\$ 6.48	\$ 0.65	Statute of Limitations Expired
2012	9510	99932280000085000	Villarreal Irma	\$ 32.62	\$ -	Statute of Limitations Expired

ADJUSTMENTS TO TAX ROLL
PERSONAL PROPERTY
EXHIBIT B

YEAR	ACCT#	CAD ACCOUNT#	NAME	TAX AMOUNT	MISC AMOUNT	REASON
2012	3051	99200029800123750	Villeral Irma	\$ 31.64	\$ -	Statute of Limitations Expired
2012	2670	99200021600167100	Vo Hoa Tran	\$ 77.37	\$ 7.74	Statute of Limitations Expired
2012	268098	99111019800000000	Vo Van Tien	\$ 308.05	\$ 30.81	Statute of Limitations Expired
2012	251412	99070221350000000	Wafer Chris&Damon Batiste	\$ 19.73	\$ 1.97	Statute of Limitations Expired
2012	266301	99110111290000000	Walker Brian	\$ 61.72	\$ 6.17	Statute of Limitations Expired
2012	257727	99080929250000000	Wallace Jimmy	\$ 112.60	\$ 11.26	Statute of Limitations Expired
2012	263697	99091214510000000	Wallace M Millie	\$ 20.72	\$ 2.07	Statute of Limitations Expired
2012	263175	99081009240000000	Western Sudan Aid Relief	\$ 5.71	\$ 0.57	Statute of Limitations Expired
2012	9543	99932280000110150	Whintey Bill	\$ 19.17	\$ 1.92	Statute of Limitations Expired
2012	268011	99111017160000000	Wilhem Bren And Rachel	\$ 6.76	\$ 0.68	Statute of Limitations Expired
2012	255096	99071212330000000	William Emma Moore Stanley	\$ 35.23	\$ 3.52	Statute of Limitations Expired
2012	268845	99120327106000000	Williams Stacy Oneal	\$ 31.71	\$ 3.17	Statute of Limitations Expired
2012	239259	99200324700184600	WLS Landscape Inc	\$ 309.74	\$ 30.97	Statute of Limitations Expired
2012	266889	99L10914700000000	Worldpay	\$ 17.26	\$ -	Statute of Limitations Expired
2012	268110	99111019880000000	Wrights Catfish and More	\$ 69.40	\$ 6.94	Statute of Limitations Expired
2012	266322	99110112140000000	Xavier Elgin	\$ 5.64	\$ 0.56	Statute of Limitations Expired
2012	266475	99110207600000000	Xiong Rose	\$ 61.72	\$ 6.17	Statute of Limitations Expired
2012	263826	99100104500000000	Young Ronnie	\$ 34.81	\$ 3.48	Statute of Limitations Expired
2012	267798	99110906390000000	Zulu Wings & Deli	\$ 262.96	\$ 26.30	Statute of Limitations Expired
2012	268032	99111017660000000	Zumba Clases De Sumba	\$ 47.00	\$ 4.70	Statute of Limitations Expired
2012 TOTAL				\$ 57,570.60	\$ 4,621.30	

\$ 57,809.17	TOTAL TAX AMOUNT
\$ 4,645.16	TOTAL MISC. AMOUNT
\$ 62,454.33	TOTAL ADJ AMOUNT
	(# OF RECORDS = 314)

EXCLUDED FROM WRITE-OFF

YEAR	ACCT#	CAD ACCOUNT#	NAME	TAX AMOUNT	MISC AMOUNT	STATUS	REASON
2011	251190	99061228180000000	Martinez John	\$ 33.54	\$ 3.35	JS16-00019D HC10-1592D	Excluded per attorney
2011	255339	99080212420000000	Metroplex Ins Agency	\$ 31.92	\$ 3.19	13-00149	Excluded per attorney
2011	255171	99080103210000000	Rodriguez Cesar	\$ 7.86	\$ 0.79	13-00167	Excluded per attorney
2012	6567	99832510000026600	Bethany Mfg Co Inc	\$ 2,037.14	\$ 203.71	14-40599	Excluded per attorney
2012	271383	99140217270000000	Farah Modishah	\$ 538.10	\$ 53.81	16-01996	Excluded per attorney
2012	257715	99080924510000000	Galloway Gary	\$ 218.14	\$ 21.81	13-00997	Excluded per attorney
2012	268734	99120316100000000	Ibarra Mariclea	\$ 61.13	\$ 6.11	17-00035	Excluded per attorney
2012	263226	99090827400000000	Martinez Fernando	\$ 92.65	\$ 9.27	16-00685	Excluded per attorney
2012	255339	99080212420000000	Metroplex Ins Agency	\$ 31.92	\$ 3.19	13-00149	Excluded per attorney
2012	240984	99200334600106100	Nanak Subzi Mandi Inc	\$ 5,248.78	\$ 524.88	15-00498	Excluded per attorney
2012	267813	99110906450000000	Otiks Compiter Repairs	\$ -	\$ 2.86	17-00033	Excluded per attorney
2012	255171	99080103210000000	Rodriguez Cesar	\$ 21.00	\$ 2.10	13-00167	Excluded per attorney
2012	268731	99120315410000000	Rodriguez Hugo	\$ 28.68	\$ 2.87	17-00039	Excluded per attorney
2012	268347	99111205770000000	SRB Customs	\$ 135.35	\$ 13.54	16-00369	Excluded per attorney
				\$ 8,486.21	\$ 851.48		

EXHIBIT B - TOTAL

\$	57,809.17	TAX AMOUNT
\$	4,645.16	MISC AMOUNT
\$	62,454.33	

EXCLUDED TOTALS

\$	8,486.21	TAX AMOUNT
\$	851.48	MISC AMOUNT
\$	9,337.69	

REPORT TOTALS

\$	66,295.38	TAX AMOUNT
\$	5,496.64	MISC AMOUNT
\$	71,792.02	

ORDINANCE NO. _____

AN ORDINANCE AMENDING THE TAX ROLL OF THE CITY OF GARLAND, TEXAS AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, Article IX, Section 3, of the Charter of the City of Garland, Texas, grants the City Council the power "to cancel any uncollectible taxes upon the tax rolls"; and

WHEREAS, the taxes indicated on the attachments to this Ordinance are uncollectible by virtue of Sec. 33.05, Tex. Tax Code or other law;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF GARLAND, TEXAS:

Section 1

That the tax roll of the City of Garland, Texas is amended by cancellation of the amounts and for the reasons set out in Exhibit "A" and Exhibit "B" attached hereto and incorporated herein by reference.

Section 2

That this Ordinance shall become effective on and after its approval and adoption.

PASSED AND APPROVED this the 19th day of September, 2017.

CITY OF GARLAND, TEXAS

By: _____
Mayor

ATTEST

City Secretary



GARLAND POLICY REPORT

City Council Work Session Agenda

2.b.

Meeting Date: September 5, 2017

Item Title: Household Hazardous Waste Interlocal Agreement

Submitted By: Jason Chessher, Health Director

Council Goal: Financially Stable Government with Tax Base that Supports Community Needs
Consistent Delivery of Reliable City Services

ISSUE

Garland's Storm Water Management Plan approved by the Texas Commission on Environmental Quality (TCEQ) requires that Garland provide a Household Hazardous Waste (HHW) Management Program. For the previous twenty years Garland has contracted with Dallas County to participate in the Dallas Area HHW Network which operates a fixed disposal facility near Garland located at 11234 Plano Road, Dallas Texas. The current contract expires September 30, 2017.

OPTIONS

1. Continue participating in the Dallas Area HHW Network by authorizing the City Manager to renew the interlocal agreement with Dallas County. (See Attachment)
2. Direct staff to explore other HHW disposal options including a permanent fixed site in Garland or periodic collection events in Garland.

RECOMMENDATION

Staff recommends that the Council approve a resolution authorizing the City Manager to renew an interlocal agreement with Dallas County to participate in the Dallas Area HHW Network. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 19, 2017 Regular Meeting.

BACKGROUND

- Garland's original Municipal Separate Storm Sewer System (MS4) permit, issued by the United States EPA in February, 1997 required the City to provide a Household Hazardous Waste Management Program. The replacement MS4 permit, issued by the State of Texas has the same requirement for a Household Hazardous Waste Management Program.
- In late 1997, the City of Garland entered into a four year interlocal agreement with Dallas County to participate in the Dallas Area HHW Network. The original contract expired in December, 2001. Council has approved three subsequent agreements, the most recent of which will expire on September 30, 2017.

- HHW generally consists of unwanted home chemicals including insecticides, herbicides, antifreeze, latex and oil-based paints, etc.
- Currently there are sixteen Dallas County cities that participate in the HHW Network and pay for their citizens' waste disposal and a proportional share of the Network's operating expenses. In FY2016, Garland residents represented 16.49% of the people who utilized the HHW Collection Center while Garland's single family homes represent 11.94% of the total HHW Network.
- The HHW Network's permanent collection facility at 11234 Plano Rd. (just south of Forest Lane near the Dallas/Garland boundary) is convenient to Garland residents. The facility is open three days per week and the second and fourth Saturday of each month.
- Over 6.1 million pounds of HHW have been collected from Garland residents since 2000.
- Due to real hazards posed by the mixing of chemicals in Environmental Waste Services collection trucks and the disposal of such wastes in Garland's landfill, HHW is not allowed to be placed in the automated trash cans.
- The County Commissioner's Court approved the interlocal agreement renewal on August 1, 2017.

CONSIDERATION

Operational

1. Continued Participation in HHW Network (Option 1)

- The permanent facility on Plano Road provides a convenient method of HHW disposal for the citizens of Garland.
- The Network can negotiate lower disposal costs because of the volume of the combined cities.
- Large collection events are conducted periodically throughout the county and Garland residents may participate in these events.

2. Explore other HHW disposal options including a permanent fixed site or periodic collection events. (Option 2)

- The Storm Water Fund contains no funds for HHW capital improvements. (there are currently no funds with which to purchase or build a permanent facility in Garland). Funding for additional qualified staff would also be necessary to staff a fixed site in Garland.
- The convenience to the citizens would be slightly enhanced if the facility were actually located in Garland.
- Periodic HHW collection events could be held throughout the year but this would require residents to store HHW between collection events.

Financial

- Funds are available in the Storm Water account to cover the costs of participating in the HHW Network (\$195,000).
- In FY 2016, 4,338 Garland residents utilized the HHW Network.

Attachments

**COURT ORDER
2017-0979**



Continuation of Household Hazardous Waste Program / Adoption of FY2018 Program Budget

On a motion made by Commissioner Dr. Theresa M. Daniel, District 1, and seconded by Commissioner Dr. Elba Garcia, District 4, the following order was passed and adopted by the Commissioners Court of Dallas County, State of Texas:

BRIEFING DATE: 8/1/2017
FUNDING SOURCE: Escrow Fund 532

Be it resolved and ordered that the Dallas County Commissioners Court does hereby approve the continuation of the Household Hazardous Waste program, its FY2018 interlocal agreement with participating cities, and its proposed FY2018 budget of \$1,772,353 (of which \$140,000 consists of prior-year carryover for contract labor, capital expenses, and other operational expenses).

It is further resolved and ordered that the County Judge is authorized to sign the aforementioned FY2018 interlocal agreements on behalf of the County.

Done in open court August 1, 2017, by the following vote:

IN FAVOR: Honorable Clay Lewis Jenkins, County Judge
Commissioner Dr. Theresa M. Daniel, District 1
Commissioner Mike Cantrell, District 2
Commissioner John Wiley Price, District 3
Commissioner Dr. Elba Garcia, District 4

OPPOSED: None

ABSTAINED: None

ABSENT: None

Recommended by: Rick Loessberg
Originating Department: Planning and Development

STATE OF TEXAS)
COUNTY OF DALLAS)

AGREEMENT BETWEEN CITY OF GARLAND AND DALLAS COUNTY

WITNESSETH:

WHEREAS, the City of Garland, Texas, (the "City") wishes to enter into this agreement (the "Agreement") to join the Dallas Area Household Hazardous Waste Network (the "HHW Network") to coordinate the planning and implementation of a hazardous waste collection program from October 1, 2017, through September 30, 2018, with options to renew for four additional one-year terms; and

WHEREAS, Dallas County, Texas acting by and through the Dallas County Commissioners Court ("County") approves the City's participation in the HHW Network; and

WHEREAS, the Interlocal Cooperation Act, Chapter 791 of the Texas Government Code, as amended, provides authorization for local governments to enter into contracts with other local governments and state agencies; and

WHEREAS, the Dallas County Commissioners Court adopted Court Order Number 94-751 establishing the HHW Network to coordinate the planning and implementation of a HHW collection program; and

WHEREAS, the HHW Network has successfully served the residents of the participating local governments since its inception in 1994 and is prepared to continue its services;

NOW, THEREFORE, THIS AGREEMENT is hereby made and entered into by the City and the County upon mutual consideration stated herein:

PURPOSE:

It is the desire of the City to voluntarily join with the County and other interested jurisdictions, to participate in a Household Hazardous Waste ("HHW") collection program as a continuation of the 1994-2017 program. The terms and conditions set forth within this Agreement provide the cooperative framework for the City and the County to undertake a variety of activities necessary to coordinate the planning and

implementation of a HHW collection program and to provide public education aimed at decreasing the generation of HHW.

GENERAL CONDITIONS:

The specific Scope of Services (see attached **Exhibit A2018**) has been reviewed and approved by the HHW Network. The parties agree **Exhibit A2018** is incorporated herein for all purposes. Any and all changes having a financial impact must be approved in advance by a mutually executed letter of agreement between the City and the County. Each letter of agreement, upon full execution, will become an addendum to this Agreement which is automatically incorporated upon mutual execution of the parties.

I. TERM

The Term of this Agreement will begin on October 1, 2017 and continue until September 30, 2018 ("Term").

II. NOTICE

Any notice, demand, or request related to this Agreement must be in writing and sent by U.S. Certified or Registered Mail to the designated contact at the address below. A notice, demand, or request will be considered received by the addressee three (3) business days after the date the notice, demand, or request was sent by U.S. Certified or Registered Mail to the contact at the address below.

Dallas County Contact
Fax)

Earle Blakney
HHW Program Manager
Dallas County
11234 Plano Road
Dallas, TX 75243
PHONE: (214) 553-1765
FAX: (214) 553-6507

With Copy to:

Russell Roden
Chief, Civil Division
Dallas County

City Contact (Name, Title, Address, Phone,

Cindy Corley
Environmental Health Manager
City of Garland
1720 Commerce St.
Garland, TX 75040
P (972) 205-3460
F (972) 205-3505

District Attorney's Office
411 Elm Street
5th Floor
Dallas, Texas 75202

III. COUNTY RESPONSIBILITIES

During the Term of this Agreement, the County agrees to the following provisions:

1. To provide HHW Network project management, HHW Network disposal contract negotiations and signatory, a HHW Mobile Unit, HHW public education, assistance with advertisement of HHW collections, all as per funding scheduled and provided by the participating cities, grants, and contributions.
2. To enter into an agreement with disposal vendor(s) to provide household hazardous waste services including a series of disposal events and disposal services at the County's fixed-site HHW collection locations. The County recognizes and agrees that compensation for vendors under such agreements will be payable only to the extent that City funds are made available.
3. To provide two representatives on the HHW Network.
4. To provide, manage, operate, and maintain a site at 11234 Plano Road in Dallas for exclusive use as a Home Chemical Collection Center ("Collection Center").
5. To provide regular reports to the City regarding collection statistics taken from event surveys.

IV. CITY RESPONSIBILITIES

During the Term of this Agreement, the City will provide:

1. A sum not to exceed \$ 195,000 for disposal, setup, operational, capital and transportation costs for HHW collection for residents of the City, during the period from October 1, 2017 through September 30, 2018. This figure is based on the program's annual budget contained in **Exhibit B2018** which is incorporated herein for all purposes.
 - a) The City agrees collection, setup, and disposal costs will be paid after-the-fact, based on actual usage by the City at events and at the Collection Center.

- b) The City agrees operational and capital costs must be paid quarterly in advance.
 - c) In the event of early withdrawal, the operational and capital costs will not be pro-rated for partial quarter participation but will become immediately due and payable in full.
2. Evidence that funding has been committed and encumbered which will be available for the obligations set forth herein in an appropriate form (City Council resolution, approved line item budget, letter from department head or other official authorized to encumber funds, etc.).
 3. A request to the County in writing when the City wishes a collection event to be held within the City's jurisdiction and assistance in obtaining HHW collection site location(s), community support, volunteers, and volunteer amenities for the requested event.
 4. Onsite representation at HHW collection(s) within its jurisdiction.
 5. Notification to the County in writing at least sixty (60) days prior to withdrawal from this Agreement by the City.
 6. One representative and one alternate on the HHW Network to attend Network meetings and participate in the decision-making process.

The City acknowledges that the financial responsibility for vendor's disposal, set up, and transportation costs, based on actual usage by residents of the City, rests with the City. The City further acknowledges and agrees its financial responsibility is determined by a proportional share of the program Operational and Capital Budgets, based on the City's percentage of total single-family households served and using single-family household projections from the North Central Texas Council of Governments. The Operational and Capital Budgets will be determined by the County and the HHW Network. No participating City will be obligated to incur expenses without their prior knowledge and approval.

V. HHW NETWORK RESPONSIBILITIES

Under the Bylaws of the HHW Network as included in **Exhibit C2018** which is incorporated herein for all purposes, the HHW Network will:

1. Provide guidance and direction to the Program Manager in the selection of a HHW disposal contractor, in identifying and selecting waste disposal options, in advertising HHW collections, and in developing and implementing a HHW public awareness program.

2. Create a Finance Committee, composed of those HHW Network members that contribute funds, to make recommendations to the HHW Network regarding expenditures of funds for the HHW Program.
3. Provide guidance and direction to the Program Manager in scheduling community HHW collection events. The HHW Network will attempt to honor all requests from member cities wishing to host a community HHW collection event. Should insufficient dates be available to accommodate all such requests, the number of events hosted by a single member City annually may be scheduled at a rate that is proportional to that City's share of single family households served.
4. Pay for all routine maintenance at the Collection Center and be responsible for capital additions necessitated by program operations.

VI. LIABILITY

To the extent allowed by law, and without creating a sinking fund, the County agrees to be responsible for any liability or damages the County may suffer as a result of claims, demands, costs or judgments against the County, including workers' compensation claims, arising out of the performance of the work and services under this Agreement, or arising from any accident, injury or damage, whatsoever, to any person or persons, or to the property of any person(s) occurring during the performance of this Agreement which are caused by the sole negligence of the County, its agents, officers and/or employees. To the extent allowed by law, and without creating a sinking fund, the City agrees to be responsible for any liability or damages the City may suffer as a result of claims, demands, costs or judgments against the City, including workers' compensation claims, arising out of the performance of the work and services under this Agreement, or arising from any accident, injury or damage, whatsoever, to any person or persons, or to the property of any person(s) occurring during the performance of this Agreement which are caused by the sole negligence of the City, its agents, officers and/or employees.

County and City agree that any such liability or damages as stated above occurring during the performance of this Agreement caused by the joint or comparative negligence of their employees, agents and officers will be determined in accordance with the comparative responsibility laws of the State of Texas.

This Agreement is made solely for the benefit of the parties, and nothing herein will be construed as granting any rights or cause of action to any third party. This Agreement is made subject to the County's and City's sovereign immunity, Title 5 of the Texas Civil Practice and Remedies Code and the Texas Tort Claims Act.

VII. RENEWAL, CANCELLATION AND AMENDMENTS

This Agreement may be renewed on October 1 of each year for four additional one-year terms by mutual agreement of the parties (a "Renewal"). A Renewal will be effectuated by a formal amendment to this Agreement which also reflects the current fiscal obligations of the parties for the current Renewal term. Either party may withdraw from this Agreement at any time without cause, provided that it has notified the other party in writing at least sixty (60) days prior to its intended withdrawal date.

Notwithstanding anything to the contrary herein, County's obligations contained in this Agreement and any extension hereto are expressly contingent upon the availability of funding for each item and obligation. Neither the State of Texas nor any City or any other person or entity will have any cause of action against the County of Dallas regarding this Agreement in the event that the County is unable to fulfill its obligations under this Agreement as a result of the lack of sufficient funding from any source utilized to fund this Agreement or failure of any funding party, including the County, to budget or authorize funding for this Agreement during the current or future fiscal years. In the event of insufficient funding by County or any other funding entity, or if funding for this Agreement is terminated, limited, suspended or withdrawn, or if funds become unavailable in whole or part, the County, at its sole discretion, will have the right, but not the obligation, to terminate County's obligations herein and withdraw from this Agreement with at least sixty (60) days prior written notice to the other HHW Network entities. Nothing herein will prevent the County, in its sole discretion, from providing funding from a separate source.

VIII. PAYMENT

The City, once receiving an invoice from the County for services rendered (operational, disposal, capital, set up, and/or transportation costs), must provide payment within thirty (30) days to the County per this Agreement and any addendum(s) to this Agreement. If the City fails to pay within thirty (30) days, the City will be charged a late fee of one percent (1%) of the invoice amount for each additional month or portion thereof. Disputes should be directed to the HHW Program Manager. Interest charges on disputed amounts will be suspended until an accurate figure has been documented and re-submitted to the City by HHW Network staff. Upon written request from the City, invoices from the County must be accompanied by copies of all participant surveys and other relevant backup documents to the invoice. Payments required under this Agreement must be in amounts that fairly compensate the performing party for the services or functions performed and shall be made from current revenues available to the paying party.

IX. AMENDMENTS AND CHANGES IN THE LAW:

No modification, amendment, novation, renewal or other alteration of this

Agreement will be effective unless mutually agreed upon in writing and executed by the parties hereto. Any alteration, addition, or deletion to the terms or conditions of this Agreement which are required by changes in federal or State law are automatically incorporated herein without written amendment to this Agreement and will be effective on the date designated by said law. Provided, however, that if the change in federal or State law renders the basic purposes of this Agreement illegal, invalid or unenforceable then either party may, upon written notice to the other, terminate this Agreement, and the parties agree to enter into good faith negotiations to replace this Agreement with an agreement as similar to the terms and conditions of this Agreement as legally permissible.

X. SEVERABILITY:

If any provision of this Agreement is construed to be illegal or invalid, this will not affect the legality or validity of any of the other provisions herein. The illegal or invalid provision will be deemed stricken and deleted, but all other provisions will continue and be given effect as if the illegal or invalid provisions had never been incorporated.

XI. SIGNATORY WARRANTY:

This Agreement has been authorized by the City through a duly enacted resolution passed by the City Council. The person or persons signing and executing this Agreement on behalf of City, or representing themselves as signing and executing this Agreement on behalf of City, do hereby warrant and guarantee that he, she or they have been duly authorized by City to execute this Agreement on behalf of City and to validly and legally bind City to all terms, performances and provisions herein set forth.

XII. ENTIRE AGREEMENT:

This Agreement, including all exhibits and attachments, constitutes the entire agreement between the parties hereto and supersedes any other agreement concerning the subject matter of this transaction, whether oral or written.

XIII. BINDING EFFECT:

This Agreement and the respective rights and obligations of the parties hereto will inure to the benefit and be binding upon the successors and assigns of the parties hereto, as well as the parties themselves.

XIV. FEDERAL OR STATE FUNDED PROJECT:

If Agreement is funded in part by either the State of Texas or federal government, the City agrees to timely comply without additional cost or expense to County, unless

otherwise specified herein, to any statute, rule, regulation, grant, contract provision or other State or federal law, rule, regulation, or other similar restriction that imposes additional or greater requirements than stated herein and that is directly applicable to the services rendered under the terms of this Agreement.

XV. DEFAULT/CUMULATIVE RIGHTS/MITIGATION:

It is not a waiver of default if the non-defaulting party fails to immediately declare a default or delays in taking any action. The rights and remedies provided by this Agreement are cumulative, and either party's use of any right or remedy will not preclude or waive its right to use any other remedy. These rights and remedies are in addition to any other rights the parties may have by law, statute, ordinance or otherwise. The City has a duty to mitigate damages.

XVI. COUNTERPARTS, NUMBER/GENDER AND HEADINGS:

This Agreement may be executed in multiple counterparts, each of which will be considered an original, but all of which will constitute one and the same instrument. Words of any gender used in this Agreement will be held and construed to include any other gender, and any words in the singular will include the plural and vice versa, unless the context clearly requires otherwise. Headings herein are for the convenience of reference only and will not be considered in any interpretation of this Agreement.

The County of Dallas, State of Texas, has executed this Agreement pursuant to Commissioners Court Order 2017-0979 passed on the 1st day of August, 2017.

COUNTY:

EXECUTED THIS 1st DAY OF August, 2017.

BY: Clay Lewis Jenkins
County Judge
Dallas County, Texas

RECOMMENDED BY:

BY: Rick Loessberg
Director
Planning and Development
Dallas County, Texas

APPROVED AS TO FORM*:

FAITH JOHNSON
District Attorney
Dallas County, Texas

BY: Randall Miller
Assistant District Attorney
Civil Division
Dallas County, Texas

*By law, the District Attorney's office may only advise or approve a contract or legal document on behalf of other parties. Our review of this document was conducted solely from the legal Perspective of our client. Our approval of this document was offered solely for the benefit of our client. Other parties should not rely on this approval, and should seek review and approval by their own respective attorney(s).

HHW Interlocal Agreement 2018

CITY:

The City of Garland has executed this Agreement pursuant to Resolution Number _____, the _____ day of _____, 2017.

EXECUTED THIS _____ DAY OF _____, 2017.

BY: Mayor

APPROVED AS TO FORM:

BY: City Attorney

Exhibit A2018 Scope of Services

Overview

For the Term of this Agreement or a Renewal Term, Dallas County proposes to operate a Household Hazardous Waste (HHW) disposal program on behalf of the participating cities of the Dallas Area Household Hazardous Waste Network (HHW Network). To accomplish this, the County will continue to use the HHW Network as multi-jurisdictional guidance to the HHW Program Manager in order to maintain an efficient and jurisdictionally sensitive collection program.

As the nucleus of a management structure, the County, through Interlocal Agreements with participating cities, will continue to direct and manage the planning, coordination, and implementation of the HHW Network and HHW collection program. The HHW Network will function as an advisory board and will consist of representatives from participating cities and Dallas County. County staff will provide project governance and oversight.

Strategy

Each spring and fall, the HHW program will target a series of temporary collection sites throughout the participating area, as selected by participating cities in the HHW Network, for one-day community collection events. The participating cities will select the days of the events. The County will oversee the operation of a fixed-site Collection Center for year-round access in addition to the aforementioned collection events. The County may provide transportation of materials between the Collection Center and city-owned satellite collection stations that are available to all participating cities as an adjunct to the Collection Center.

Each city will be able to participate in each of the one-day community collection events. Each event will be held on a different day, at a different location, as determined by the HHW Network. Residents of each participating city also can use the Collection Center on a year-round basis.

For all one-day community collection events, the HHW Program Manager and staff will coordinate scheduling, vendor services, equipment, supplies, advertising, and labor for onsite activities. The host city will provide for traffic control and site security, and will have an onsite City representative for the duration of any collection held within its jurisdiction. The host city will also assist in providing volunteers and volunteer amenities. The County will negotiate the disposal or diversion of HHW on behalf of the HHW Network participants, according to the criteria established by the HHW Network.

Dallas County will provide office space, a Collection Center site, project management, and a mobile unit. The HHW Program Manager and staff must be County employees, whose salaries and benefits are funded by the participating cities and/or

through grants. All disposal, set up, and transportation costs will be funded by the participating cities, based on participation rates. All operating costs, including personnel, facility and equipment maintenance, advertising, supplies, services, and other operational costs will be funded by the participating cities proportionally, based on the most current single-family population figures from the North Central Texas Council of Governments. Program enhancements and capital additions necessitated by program operations will be the responsibility of the HHW Network and funded by the participating cities and/or by grants. All satellite collection centers must be owned and staffed by the host city and available to residents of all HHW Network cities. All satellite station costs for operations, personnel, and facility maintenance will be funded by the host city. Vehicles and supplies for handling and packing will be provided by the HHW Network through funding for the HHW Program.

All overhead for the Household Hazardous Waste Program and Collection Center will be funded through the HHW Network operating and capital budgets. Each participating city must provide the County with funds to cover its collection, disposal, transportation and setup costs within thirty (30) days of receiving an invoice from the County.

Operational and capital costs will be paid quarterly in advance. The City will pay a percent of the operational and capital costs equivalent to its percent of the total of single-family households in all participating cities. Single-family household totals will be acquired from statistics published by the North Central Texas Council of Governments. Collection Center disposal costs will be billed to the City at the end of each billing period, according to the number of residents participating during the billing period. Satellite station disposal costs will be billed to the City at the end of each billing period, applying the Collection Center billing rate to the number of residents using the Satellite station. Collection event costs, including setup, disposal, transportation, etc., will be billed after each event, according to the number of residents participating at the event. The County, as signatory on all contracts, will pay the HHW disposal contractor and all other vendors with the funds received from the participating cities.

If, at any time, it appears that a city lacks sufficient funding to complete the contract year, the city must choose one of the following options:

- The City may cap its costs, and no longer pay for its residents to drop off their waste at the collection center or future one-day events to be held within the Term of the Agreement or a Renewal term; or
- The City may decide to continue to allocate funds and allow its residents to participate in the collection center and future events to be held in the Agreement year. *

* If a city decides to continue to fund costs for its residents above the sum provided for in its Interlocal Agreement with the County, then the City must provide the County with a letter of agreement as an addendum to the Interlocal Agreement whereby the city is contractually obligated to pay the County any additional costs for HHW

collection during the period in which it wishes to extend its payment obligations and specifies a new not-to-exceed budget limit.

If a city does not make a provision to cover a cost overrun, and the city reaches its contractual limit (as provided for in the Interlocal Agreement or its addendum(s)), subsequent participants from that city must pay their own collection fees in order to dispose of their HHW at the Collection Center or community collection event sites until an addendum is added to the Agreement to cover additional costs. This fee will be calculated from the most recent average collection cost per household or from actual disposal costs, whichever is greater.

Program Objectives

The ultimate objective of the HHW program is to minimize or eliminate the disposal of HHW in area landfills and storm water sewers through reuse/recycling, education and collection/disposal. Toward this end, this program will:

1. Operate a year-round collection center and a series of one-day community collection events each spring and fall throughout Dallas County, serving at least 9,000 households annually.
2. Provide HHW Network cities an opportunity and forum to address storm water pollution and HHW issues.
3. Involve as many cities as possible in the HHW Network.
4. Establish a precedent in Dallas County for handling HHW through a regional approach that will serve as a model for other multi-jurisdictional areas.
5. Educate the public as to alternatives, wise purchasing, and safe disposal through the use of as many of the following as possible: internet sites, utility bill stuffers, newspaper, television & radio public service announcements, contact with local environmental groups, trade show exhibits, presentation at schools, neighborhood organization meetings, service organizations, etc.
6. Gather data regarding citizen interest as well as types and amounts of HHW diverted from the waste stream by surveying collection participants.
7. Divert a substantial amount of HHW from municipal landfills.
8. Involve local businesses, especially those connected with the manufacture or sales of HHW generating products.
9. Involve local environmental groups, Dallas County Public Health Advisory Committee, Dallas County Health Dept., Texas Cooperative Extension Services, and the Southwest Institute of Forensic Sciences.

Special Training Requirements

Dallas County, as Operator, will be responsible for providing personnel at all collection locations. Those personnel may be county, city, volunteer, or contract personnel. The County will ensure that all personnel involved in collection activities have received training appropriate to their duties as specified in Texas Administrative Code Title 30, Section 335.407.

All citizen volunteers must attend a brief onsite orientation session prior to assisting with collection activities. This orientation will be provided by Dallas County HHW Program staff. Citizen volunteers will be restricted from entering areas where hazardous materials are handled, and their activities will be limited to taking surveys, distributing educational literature, processing non-hazardous recyclables and assisting with traffic control.

Records and Reporting

The Program Manager and staff must prepare quarterly progress reports for the County, HHW Network, and relevant grant agencies. Financial reports and progress reports must be presented at least quarterly and in accordance with grant requirements. Financial records, contacts, and data from the collection surveys must be computerized. A final report must be presented within 90 days of the end of each collection event, fiscal quarter, and fiscal year. The final report must include the results of surveys taken from participating citizens and participating cities to gather data including frequency of use and materials collected.

Program Goals

- Participation by at least 9,000 of the area households annually
- Participation by at least 50% of the cities in the County
- Increase public outreach to households in participating cities
- Coverage by general circulation newspaper and/or broadcast media
- Involvement of the community at all levels; government, industry, and citizens

Exhibit B2018**FY2018 HHW PROGRAM BUDGET SUMMARY**

This exhibit summarizes the total program funding for fiscal year 2018 ("FY18") as approved by the Dallas Area Household Hazardous Waste Network at its regular meeting on April 27, 2017 and the Dallas County Commissioners Court on August 1, 2017.

The Operational Budget includes personnel and operating costs, which are shared by the Network cities based on single-family household projections published by North Central Texas Council of Governments. Personnel costs include all HHW staff salaries and fringe benefits. Operating costs include supplies, equipment, advertising, public education, volunteer support, staff development, printing, postage, facility maintenance, utilities, and all other direct programming costs.

Capital Expense Budget costs are provided by the cities based on single-family household projections published by the North Central Texas Council of Governments. These funds are set aside for capital maintenance and improvements including building repairs, equipment repair or replacement, mechanical upgrades, and expansion projects.

The Collection/Disposal Budget is comprised of vendor costs for collection services, contract labor, and materials disposal. These costs vary according to actual usage and are indicated in the budget summary for planning purposes only. ***Funding for collection, contract labor, and disposal costs will be collected from the cities after the fact, on an as-used basis.***

Budget adjustments made during the Term of the Agreement must not result in a City Funding amount that exceeds the approved budget total shown herein. The County may make line item transfers within the budget when these transfers do not exceed \$5,000. Budget adjustments in excess of \$5,000 must be approved by the HHW Network.

BUDGET SECTION	CITY FUNDING
OPERATIONAL BUDGET	
Personnel Costs	\$ 487,228
Operating Costs	\$ 212,125
CAPITAL EXPENSE BUDGET	\$ 93,000

COLLECTION / DISPOSAL BUDGET	\$ 980,000
TOTAL PROGRAM BUDGET	\$1,772,353

DALLAS COUNTY HOUSEHOLD HAZARDOUS WASTE PROGRAM

Proportional Shares of FY2018 Operational and Capital Budget *

Based on Estimated SINGLE FAMILY HOUSING UNITS **

City	Service Area Based on Single Family Households as per Current NCTCOG Estimates**	Percent of Service Area	FY18 Quarterly Share of Operational and Capital Budgets*	FY18 Annual Share of Operational and Capital Budgets*
Addison	1,794	0.33%	\$600.81	\$ 2,403
Dallas	284,183	52.70%	\$95,173.13	\$ 380,693
De Soto	15,536	2.88%	\$5,203.02	\$ 20,812
Duncanville	11,616	2.15%	\$3,890.21	\$ 15,561
Farmers Branch	8,821	1.64%	\$2,954.16	\$ 11,817
Garland	64,400	11.94%	\$21,567.61	\$ 86,270
Highland Park	3,492	0.65%	\$1,169.47	\$ 4,678
Irving	41,390	7.68%	\$13,861.55	\$ 55,446
Mesquite	38,840	7.20%	\$13,007.55	\$ 50,030
Richardson	30,356	5.63%	\$10,166.25	\$ 40,665
Rowlett	18,726	3.47%	\$6,271.35	\$ 25,085
Sachse	7,074	1.31%	\$2,369.09	\$ 9,476
Seagoville	3,710	0.69%	\$1,242.48	\$ 4,970
Sunnyvale	1,758	0.33%	\$588.76	\$ 2,355
University Park	7,533	1.40%	\$2,522.81	\$ 10,991
Wilmer	1,288	0.24%	\$431.35	\$ 1,725
TOTAL	540,517	100%	\$ 180,588.25	\$ 722,353

NOTES:

* FY18 Net Operational Budget = \$679,353
Capital Budget = \$722,353

Net Capital Costs = \$43,000

Combined Net Operational and

Operational and Capital budget shares are determined by multiplying each city's Percent of Service Area times the net total of those two budgets. City shares are billed quarterly in advance and may be proportionately adjusted in the event city participation changes. Disposal costs are paid in addition to Operational and Capital costs and are based on actual usage.

**** Single-family housing estimates were revised 4/15/15, using latest published figures from NCTCOG, which have not changed from previous year estimates.**

Exhibit C2018**BYLAWS OF THE DALLAS AREA HOUSEHOLD HAZARDOUS WASTE NETWORK****Article I: Name**

The name of this organization is the **Dallas Area Household Hazardous Waste Network** (hereafter referred to as the "HHW Network").

Article II: Mission

The purpose of the HHW Network is to efficiently organize and promote the collection of household hazardous wastes (HHW) among individuals residing in Dallas County, or in counties adjacent to Dallas County, as agreed to by the Network Members. In order to accomplish this mission, the HHW Network will actively promote cooperative arrangements among governmental agencies in the County and will provide a forum for discussion of techniques for collection and disposal of HHW.

Article III: Members

Voting Members - Voting membership in the HHW Network will be offered to one representative of each city volunteering to participate in the HHW Network and to one representative of Dallas County. Any city requesting membership must provide an official written notice of the name of the individual to be designated as the HHW Network member. Once designated, an individual member must arrange to have an alternate designated to participate in the absence of the member.

Advisory (Non-voting) Members - the County Judge will name additional Advisory (Non-voting) Members to the HHW Network representing the following categories or organizations:

- one member representing Dallas County, other than the County's voting member
- one member representing the North Central Texas Council of Governments
- three members representing advocacy, environmental, or other citizen groups such as: Texas Cooperative Extension Service, Audubon Society, and League of Women Voters
- two members representing the private sector

Term - each of the designated individuals will serve until his/her successor is designated.

Article IV: Meetings

The HHW Network will meet as required to conduct its business. All HHW

Network meetings must be public meetings open to all participants. The Project Manager of the HHW Network must establish a mailing list for notification of all meetings, and must include on this list any individual that requests notification.

Quorum - At any regular meeting of the HHW Network, a quorum will consist of half of the individuals who have then been duly designated or appointed pursuant to Article III.

Article V: Voting

Each Voting Member of the HHW Network will have one vote.

Article VI: Officers and Committees

The HHW Program Manager will preside at all meetings. The HHW Program Manager and staff will be responsible for all staff work and notifications related to the Network. The Program Manager must not be a voting member of the Network. The HHW Network, by majority vote, may establish such committees as the HHW Network considers necessary to carry out the work of the organization.

Finance Committee - The Finance Committee must consist of representatives of each city that has made a binding commitment to participate in a disposal program and the County's voting member. The Program Manager will serve as an ex officio member of this committee. No contract or other financial arrangement affecting the participants may be referred to or approved by the HHW Network without first receiving approval of the Finance Committee.

Article VII: Amendments

These bylaws will become effective when ratified by a majority of HHW Network voting members attending a regular meeting, and when approved by Dallas County Commissioners Court. Amendments may be proposed by any member at any time, in writing. Such amendments will be voted on at a duly called HHW Network meeting to which notice has been given that an amendment will be proposed. Amendments passed by 2/3 of the voting members present will become part of the bylaws.



GARLAND POLICY REPORT

City Council Work Session Agenda

2.c.

Meeting Date: September 5, 2017

Item Title: Texas Department of Transportation (TxDOT) Selective Traffic Enforcement Program (STEP) 2018 Comprehensive Grant

Submitted By: Mitch Bates, Chief of Police

Council Goal: Financially Stable Government with Tax Base that Supports Community Needs
Safe, Family-Friendly Neighborhoods

ISSUE

Council is requested to consider accepting a Texas Department of Transportation (TxDOT) – Selective Traffic Enforcement Program (STEP) – Comprehensive Grant.

OPTIONS

1. Accept TxDOT STEP grant funding.
2. Do Not Accept TxDOT STEP Grant Funding.

RECOMMENDATION

Option 1: Accept TxDOT Grant Funding for the Selective Traffic Enforcement Program (STEP) Comprehensive Grant for FY 2017-2018. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 5, 2017 Regular Meeting.

BACKGROUND

The Garland Police Department has successfully participated in STEP enforcement grants for many years. The purpose of this grant is to save lives, reduce motor vehicle crashes and injuries, and change behavior related to driving habits. This is accomplished by aggressively enforcing the laws of the State of Texas related to red light and intersection violations, seat belt violations, speed violations and driving while intoxicated violations.

The enforcement activities will also be supplemented by additional public information and education campaigns conducted throughout the enforcement period. These efforts will be focused throughout the City of Garland.

CONSIDERATION

The grant for FY 2017-2018 is in the amount of \$391,230.15. If accepted, TxDOT will reimburse the City of Garland \$248,816.37. The grant requires the City to provide \$142,413.78 in matching funds. This will be accomplished in part through fringe benefits expenditures, TMRS contributions, vehicle mileage costs, and administrative time spent on grant related paperwork. Consequently, the City can satisfy the contractual match requirements without expending any additional funds.

Attachments

STEP Grant Agreement

Texas Traffic Safety eGrants

Fiscal Year 2018

Organization Name: City of Garland - Police Department

Legal Name: City of Garland

Payee Identification Number: 17560005344000

Project Title: STEP Comprehensive

ID: 2018-GarlandP-S-1YG-0020

Period: 10/01/2017 to 09/30/2018

FOR REVIEW ONLY - NOT A LEGAL DOCUMENT

TEXAS TRAFFIC SAFETY PROGRAM GRANT AGREEMENT

THE STATE OF TEXAS
THE COUNTY OF TRAVIS

THIS AGREEMENT IS MADE BY and between the State of Texas, acting by and through the Texas Department of Transportation, hereinafter called the Department and the, **City of Garland** hereinafter called the Subgrantee, and becomes effective then fully executed by both parties. For the purpose of this agreement, the Subgrantee is designated as a(n) **Local Government/Transit District**.

AUTHORITY: Texas Transportation Code, Chapter 723, the Traffic Safety Act of 1967, and the Highway Safety Performance Plan for the Fiscal Year 2018.

Name of the Federal Agency: **National Highway Traffic Safety Administration**

CFDA Number:
CFDA Title: **State and Community Highway Safety Grant Program**
Funding Source: Section 402
DUNS: **801609462**
FAIN: To Be Assigned

Project Title: **STEP Comprehensive**
Description:
This project is **Not Research and Development**

Grant Period: This Grant becomes effective on **10/01/2017** or on the date of final signature of both parties, whichever is later, and ends on **09/30/2018** unless terminated or otherwise modified.

Total Awarded: **\$391,230.15**
Amount Eligible for Reimbursement by the Department: **\$248,816.37**
Match Amount provided by the Subgrantee: **\$142,413.78**

FOR REVIEW ONLY - NOT A LEGAL DOCUMENT

TEXAS TRAFFIC SAFETY PROGRAM GRANT AGREEMENT

The signatory of the Subgrantee hereby represents and warrants that she/he is an officer of the organization for which she/he has executed this agreement and that she/he has full and complete authority to enter into this agreement on behalf of the organization.

Subgrantee Signature

By checking this box, I agree to use electronic signatures. Furthermore, I confirm that I have signature authority to execute this document and it is an electronic representation of my signature for all purposes when I use it on documents, including legally binding contracts—just the same as a pen-and-paper signature.

Name:

Title:

Date:

TxDOT Signature

By checking this box, I agree to use electronic signatures. Furthermore, I confirm that I have signature authority to execute this document and it is an electronic representation of my signature for all purposes when I use it on documents, including legally binding contracts—just the same as a pen-and-paper signature.

Name:

Title:

Date:

Texas Traffic Safety Program

GRANT AGREEMENT GENERAL TERMS AND CONDITIONS

Definitions: For purposes of these Terms and Conditions, the "Department" is also known as the "State" and the "prospective primary participant" and the "Subgrantee" is also known as the "Subrecipient" and "prospective lower tier participant"

ARTICLE 1. COMPLIANCE WITH LAWS

The Subgrantee shall comply with all federal, state, and local laws, statutes, codes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of this agreement, including, without limitation, workers' compensation laws, minimum and maximum salary and wage statutes and regulations, nondiscrimination laws and regulations, and licensing laws and regulations. When required, the Subgrantee shall furnish the Department with satisfactory proof of compliance.

ARTICLE 2. STANDARD ASSURANCES

The Subgrantee assures and certifies that it will comply with the regulations, policies, guidelines, and requirements, including 2 CFR, Part 200; and the Department's Traffic Safety Program Manual, as they relate to the application, acceptance, and use of federal or state funds for this project. Also, the Subgrantee assures and certifies that:

A. It possesses legal authority to apply for the grant, and that a resolution, motion, or similar action has been duly adopted or passed as an official act of the applicant's governing body, authorizing the filing of the application, including all understandings and assurances contained in the application, and directing and authorizing the person identified as the official representative of the applicant to act in connection with the application and to provide any additional information that may be required.

B. It and its subcontractors will comply with Title VI of the Civil Rights Act of 1964 (Public Law 88-352), as amended, and in accordance with that Act, no person shall discriminate, on the grounds of race, color, sex, national origin, age, religion, or disability.

C. It will comply with requirements of the provisions of the Uniform Relocation Assistance and Real Property Acquisitions Act of 1970, as amended; 42 USC (United States Code) §§4601 et seq.; and United States Department of Transportation (USDOT) regulations, "Uniform Relocation and Real Property Acquisition for Federal and Federally Assisted Programs," 49 CFR, Part 24, which provide for fair and equitable treatment of persons displaced as a result of federal and federally assisted programs.

D. It will comply with political activity (Hatch Act) (applies to subrecipients as well as States). The State will comply with provisions of the Hatch Act (5 U.S.C. 1501-1508) which limits the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

E. It will comply with the federal Fair Labor Standards Act's minimum wage and overtime requirements for employees performing project work.

F. It will establish safeguards to prohibit employees from using their positions for a purpose that is or gives the appearance of being motivated by a desire for private gain for themselves or others, particularly those with whom they have family, business, or other ties.

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G. It will give the Department the access to and the right to examine all records, books, papers, or documents related to this Grant Agreement.

H. It will comply with all requirements imposed by the Department concerning special requirements of law, program requirements, and other administrative requirements.

I. It recognizes that many federal and state laws imposing environmental and resource conservation requirements may apply to this Grant Agreement. Some, but not all, of the major federal laws that may affect the project include: the National Environmental Policy Act of 1969, as amended, 42 USC §§4321 et seq.; the Clean Air Act, as amended, 42 USC §§7401 et seq. and sections of 29 USC; the Federal Water Pollution Control Act, as amended, 33 USC §§1251 et seq.; the Resource Conservation and Recovery Act, as amended, 42 USC §§6901 et seq.; and the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, 42 USC §§9601 et seq. The Subgrantee also recognizes that the U.S. Environmental Protection Agency, USDOT, and other federal agencies have issued, and in the future are expected to issue, regulations, guidelines, standards, orders, directives, or other requirements that may affect this Project. Thus, it agrees to comply, and assures the compliance of each contractor and each subcontractor, with any federal requirements that the federal government may now or in the future promulgate.

J. It will comply with the flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973, 42 USC §4012a(a). Section 102(a) requires, on and after March 2, 1975, the purchase of flood insurance in communities where that insurance is available as a condition for the receipt of any federal financial assistance for construction or acquisition purposes for use in any area that has been identified by the Secretary of the Department of Housing and Urban Development as an area having special flood hazards. The phrase "federal financial assistance" includes any form of loan, grant, guaranty, insurance payment, rebate, subsidy, disaster assistance loan or grant, or any form of direct or indirect federal assistance.

K. It will assist the Department in its compliance with Section 106 of the National Historic Preservation Act of 1966 as amended (16 USC 470 et seq.), Executive Order 11593, and the Antiquities Code of Texas (National Resources Code, Chapter 191).

L. It will comply with Chapter 573 of the Texas Government Code by ensuring that no officer, employee, or member of the Subgrantee's governing board or the Subgrantee's subcontractors shall vote or confirm the employment of any person related within the second degree of affinity or third degree by consanguinity to any member of the governing body or to any other officer or employee authorized to employ or supervise that person. This prohibition shall not apply to the employment of a person described in Section 573.062 of the Texas Government Code.

M. It will ensure that all information collected, assembled, or maintained by the applicant relative to this project shall be available to the public during normal business hours in compliance with Chapter 552 of the Texas Government Code, unless otherwise expressly provided by law.

N. If applicable, it will comply with Chapter 551 of the Texas Government Code, which requires all regular, special, or called meetings of governmental bodies to be open to the public, except as otherwise provided by law or specifically permitted in the Texas Constitution.

ARTICLE 3. COMPENSATION

A. The method of payment for this agreement will be based on actual costs incurred up to and not to exceed the limits specified in the Project Budget. The amount included in a Project Budget category will be deemed to be an estimate only and a higher amount can be reimbursed, subject to the conditions specified in paragraph B of this Article. If the Project Budget specifies that costs are based on a specific rate, per-unit cost, or other method of payment, reimbursement will be based on the specified method.

B. All payments will be made in accordance with the Project Budget.

1. The Subgrantee's expenditures may overrun a budget category (I, II, or III) in the approved Project Budget without a grant (budget) amendment, as long as the overrun does not exceed a total of five (5) percent of the maximum amount eligible for reimbursement (TxDOT) in the attached Project Budget for the current fiscal year. This overrun must be off-set by an equivalent underrun elsewhere in the Project Budget.

2. If the overrun is five (5) percent or less, the Subgrantee must provide written notification to the Department, through the TxDOT Electronic Grants Management System (eGrants), prior to the Request for Reimbursement being approved. The notification must indicate the amount, the percent over, and the specific reason(s) for the overrun.

3. Any overrun of more than five (5) percent of the amount eligible for reimbursement (TxDOT) in the attached Project Budget requires an amendment of this Grant Agreement.

4. The maximum amount eligible for reimbursement shall not be increased above the Grand Total TxDOT Amount in the approved Project Budget, unless this Grant Agreement is amended, as described in Article 5 of this agreement.

5. For Selective Traffic Enforcement Program (STEP) grants only. In the Project Budget, Subgrantees are not allowed to use underrun funds from the TxDOT amount of (100) Salaries, Subcategories A, "Enforcement," or B, "PI&E Activities," to exceed the TxDOT amount listed in Subcategory C, "Other." Also, Subgrantees are not allowed to use underrun funds from the TxDOT amount of (100) Salaries, Subcategories A, "Enforcement," or C, "Other," to exceed the TxDOT amount listed in Subcategory B, "PI&E Activities." The TxDOT amount for Subcategory B, "PI&E Activities," or C, "Other," can only be exceeded within the five (5) percent flexibility, with underrun funds from Budget Categories II or III.

C. To be eligible for reimbursement under this agreement, a cost must be incurred in accordance with the Project Budget, within the time frame specified in the Grant Period of this Grant Agreement, attributable to work covered by this agreement, and which has been completed in a manner satisfactory and acceptable to the Department.

D. Federal or TxDOT funds cannot supplant (replace) funds from any other sources. The term "supplanting," refers to the use of federal or TxDOT funds to support personnel or an activity already supported by local or state funds.

E. Payment of costs incurred under this agreement is further governed by the cost principles outlined in 2 CFR Part 200.

F. The Subgrantee agrees to submit monthly Requests for Reimbursement, as designated in this Grant Agreement, within thirty (30) days after the end of the billing period. The Request for Reimbursement and appropriate supporting documentation must be submitted through eGrants.

G. The Subgrantee agrees to submit the final Request for Reimbursement under this agreement within forty-five (45) days of the end of the grant period.

H. Payments are contingent upon the availability of appropriated funds.

I. Project agreements supported with federal or TxDOT funds are limited to the length of this Grant Period specified in this Grant Agreement. If the Department determines that the project has demonstrated merit or has potential long-range benefits, the Subgrantee may apply for funding assistance beyond the initial agreement period.

Preference for funding will be given to projects based on (1) proposed cost sharing and (2) demonstrated performance history.

ARTICLE 4. LIMITATION OF LIABILITY Payment of costs incurred under this agreement is contingent upon the availability of funds. If at any time during this Grant Period, the Department determines that there is insufficient funding to continue the project, the Department shall notify the Subgrantee, giving notice of intent to terminate this agreement, as specified in Article 11 of this agreement. If at the end of a federal fiscal year, the Department determines that there is sufficient funding and performance to continue the project, the Department may notify the Subgrantee to continue this agreement.

ARTICLE 5. AMENDMENTS This agreement may be amended prior to its expiration by mutual written consent of both parties, utilizing the Grant Agreement Amendment in eGrants. Any amendment must be executed by the parties within the Grant Period, as specified in this Grant Agreement.

ARTICLE 6. ADDITIONAL WORK AND CHANGES IN WORK

A. If the Subgrantee is of the opinion that any assigned work is beyond the scope of this agreement and constitutes additional work, the Subgrantee shall promptly notify the Department in writing through eGrants. If the Department finds that such work does constitute additional work, the Department shall advise the Subgrantee and a written amendment to this agreement will be executed according to Article 5, Amendments, to provide compensation for doing this work on the same basis as the original work. If performance of the additional work will cause the maximum amount payable to be exceeded, the work will not be performed before a written grant amendment is executed.

B. If the Subgrantee has submitted work in accordance with the terms of this agreement but the Department requests changes to the completed work or parts of the work which involve changes to the original scope of services or character of work under this agreement, the Subgrantee shall make those revisions as requested and directed by the Department. This will be considered as additional work and will be paid for as specified in this Article.

C. If the Subgrantee submits work that does not comply with the terms of this agreement, the Department shall instruct the Subgrantee to make any revisions that are necessary to bring the work into compliance with this agreement. No additional compensation shall be paid for this work.

D. The Subgrantee shall make revisions to the work authorized in this agreement that are necessary to correct errors or omissions, when required to do so by the Department. No additional compensation shall be paid for this work.

E. The Department shall not be responsible for actions by the Subgrantee or any costs incurred by the Subgrantee relating to additional work not directly associated with or prior to the execution of an amendment.

ARTICLE 7. REPORTING AND MONITORING

A. Not later than thirty (30) days after the end of each reporting period, the Subgrantee shall submit a performance report through eGrants. Reporting periods vary by project duration and are defined as follows:

1. For short term projects, the reporting period is the duration of the project. Subgrantee shall submit

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a performance report within 30 days of project completion.

2. For longer projects, the reporting period is monthly. Subgrantee shall submit a performance report within 30 days of the completion of each project month and within 30 days of project completion.

3. For Selective Traffic Enforcement Program (STEP) Wave projects, the reporting period is each billing cycle. Subgrantee shall submit a performance report within 30 days of the completion of each billing cycle.

B. The performance report will include, as a minimum: (1) a comparison of actual accomplishments to the objectives established for the period, (2) reasons why established objectives and performance measures were not met, if appropriate, and (3) other pertinent information, including, when appropriate, an analysis and explanation of cost underruns, overruns, or high unit costs.

C. The Subgrantee shall promptly advise the Department in writing, through eGrants, of events that will have a significant impact upon this agreement, including:

1. Problems, delays, or adverse conditions, including a change of project director or other changes in Subgrantee personnel, that will materially affect the ability to attain objectives and performance measures, prevent the meeting of time schedules and objectives, or preclude the attainment of project objectives or performance measures by the established time periods. This disclosure shall be accompanied by a statement of the action taken or contemplated and any Department or federal assistance needed to resolve the situation.

2. Favorable developments or events that enable meeting time schedules and objectives sooner than anticipated or achieving greater performance measure output than originally projected.

D. The Subgrantee shall submit the Final Performance Report through eGrants within thirty (30) days after completion of the grant.

ARTICLE 8. RECORDS

The Subgrantee agrees to maintain all reports, documents, papers, accounting records, books, and other evidence pertaining to costs incurred and work performed under this agreement (called the "Records"), and shall make the Records available at its office for the time period authorized within the Grant Period, as specified in this Grant Agreement. The Subgrantee further agrees to retain the Records for four (4) years from the date of final payment under this agreement, until completion of all audits, or until pending litigation has been completely and fully resolved, whichever occurs last.

Duly authorized representatives of the Department, the USDOT, the Office of the Inspector General, Texas State Auditor, and the Comptroller General shall have access to the Records. This right of access is not limited to the four (4) year period but shall last as long as the Records are retained.

ARTICLE 9. INDEMNIFICATION

A. To the extent permitted by law, the Subgrantee, if other than a government entity, shall indemnify, hold, and save harmless the Department and its officers and employees from all claims and liability due to the acts or omissions of the Subgrantee, its agents, or employees. The Subgrantee also agrees, to the extent permitted by law, to indemnify, hold, and save harmless the Department from any and all expenses, including but not limited to attorney fees, all court costs and awards for damages incurred by the Department in litigation or otherwise resisting claims or liabilities as a result of any activities of the Subgrantee, its agents, or employees.

B. To the extent permitted by law, the Subgrantee, if other than a government entity, agrees to

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B. To the extent permitted by law, the Subgrantee, if other than a government entity, agrees to protect, indemnify, and save harmless the Department from and against all claims, demands, and causes of action of every kind and character brought by any employee of the Subgrantee against the Department due to personal injuries to or death of any employee resulting from any alleged negligent act, by either commission or omission on the part of the Subgrantee.

C. If the Subgrantee is a government entity, both parties to this agreement agree that no party is an agent, servant, or employee of the other party and each party agrees it is responsible for its individual acts and deeds, as well as the acts and deeds of its contractors, employees, representatives, and agents.

ARTICLE 10. DISPUTES AND REMEDIES

This agreement supersedes any prior oral or written agreements. If a conflict arises between this agreement and the Traffic Safety Program Manual, this agreement shall govern. The Subgrantee shall be responsible for the settlement of all contractual and administrative issues arising out of procurement made by the Subgrantee in support of work under this agreement. Disputes concerning performance or payment shall be submitted to the Department for settlement, with the Executive Director or his or her designee acting as final referee.

ARTICLE 11. TERMINATION

A. This agreement shall remain in effect until the Subgrantee has satisfactorily completed all services and obligations described in this agreement and these have been accepted by the Department, unless:

1. This agreement is terminated in writing with the mutual consent of both parties; or
2. There is a written thirty (30) day notice by either party; or
3. The Department determines that the performance of the project is not in the best interest of the Department and informs the Subgrantee that the project is terminated immediately.

B. The Department shall compensate the Subgrantee for only those eligible expenses incurred during the Grant Period specified in this Grant Agreement that are directly attributable to the completed portion of the work covered by this agreement, provided that the work has been completed in a manner satisfactory and acceptable to the Department. The Subgrantee shall not incur nor be reimbursed for any new obligations after the effective date of termination.

ARTICLE 12. INSPECTION OF WORK

A. The Department and, when federal funds are involved, the USDOT, or any of their authorized representatives, have the right at all reasonable times to inspect or otherwise evaluate the work performed or being performed under this agreement and the premises in which it is being performed.

B. If any inspection or evaluation is made on the premises of the Subgrantee or its subcontractor, the Subgrantee shall provide and require its subcontractor to provide all reasonable facilities and assistance for the safety and convenience of the inspectors in the performance of their duties. All inspections and evaluations shall be performed in a manner that will not unduly delay the work.

ARTICLE 13. AUDIT

The state auditor may conduct an audit or investigation of any entity receiving funds from the state directly under this agreement or indirectly through a subcontract under this agreement. Acceptance of funds directly under this agreement or indirectly through a subcontract under this agreement acts as acceptance of the authority of the State Auditor, under the direction of the legislative audit committee, to conduct an audit or investigation in connection with those funds. An entity that is the subject of an audit or investigation must provide the state auditor with access to any information the state auditor considers relevant to the investigation or audit.

ARTICLE 14. SUBCONTRACTS

A subcontract in excess of \$25,000 may not be executed by the Subgrantee without prior written concurrence by the Department. Subcontracts in excess of \$25,000 shall contain all applicable terms and conditions of this agreement. No subcontract will relieve the Subgrantee of its responsibility under this agreement.

ARTICLE 15. GRATUITIES

A. Texas Transportation Commission policy mandates that employees of the Department shall not accept any benefit, gift, or favor from any person doing business with or who, reasonably speaking, may do business with the Department under this agreement. The only exceptions allowed are ordinary business lunches and items that have received the advanced written approval of the Department's Executive Director.

B. Any person doing business with or who reasonably speaking may do business with the Department under this agreement may not make any offer of benefits, gifts, or favors to Department employees, except as mentioned here above. Failure on the part of the Subgrantee to adhere to this policy may result in termination of this agreement.

ARTICLE 16. NONCOLLUSION

The Subgrantee warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the Subgrantee, to solicit or secure this agreement, and that it has not paid or agreed to pay any company or person, other than a bona fide employee, any fee, commission, percentage, brokerage fee, gift, or any other consideration contingent upon or resulting from the award or making of this agreement. If the Subgrantee breaches or violates this warranty, the Department shall have the right to annul this agreement without liability or, in its discretion, to deduct from the agreement price or consideration, or otherwise recover the full amount of such fee, commission, brokerage fee, contingent fee, or gift.

ARTICLE 17. CONFLICT OF INTEREST

The Subgrantee represents that it or its employees have no conflict of interest that would in any way interfere with its or its employees' performance or which in any way conflicts with the interests of the Department. The Subgrantee shall exercise reasonable care and diligence to prevent any actions or conditions that could result in a conflict with the Department's interests.

ARTICLE 18. SUBGRANTEE'S RESOURCES

A. The Subgrantee certifies that it presently has adequate qualified personnel in its employment to perform the work required under this agreement, or will be able to obtain such personnel from sources other than the Department.

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B. All employees of the Subgrantee shall have the knowledge and experience that will enable them to perform the duties assigned to them. Any employee of the Subgrantee who, in the opinion of the Department, is incompetent or whose conduct becomes detrimental to the work, shall immediately be removed from association with the project.

C. Unless otherwise specified, the Subgrantee shall furnish all equipment, materials, supplies, and other resources required to perform the work.

ARTICLE 19. PROCUREMENT AND PROPERTY MANAGEMENT

The Subgrantee shall establish and administer a system to procure, control, protect, preserve, use, maintain, and dispose of any property furnished to it by the Department or purchased pursuant to this agreement in accordance with its own procurement and property management procedures, provided that the procedures are not in conflict with (1) the Department's procurement and property management standards and (2) the federal procurement and property management standards provided by 2 CFR §§ 200.310-316, 200.318-324.

ARTICLE 20. OWNERSHIP OF DOCUMENTS AND INTELLECTUAL PROPERTY

Upon completion or termination of this Grant Agreement, whether for cause or at the convenience of the parties, all finished or unfinished documents, data, studies, surveys, reports, maps, drawings, models, photographs, etc. prepared by the Subgrantee, and equipment and supplies purchased with grant funds shall, at the option of the Department, become the property of the Department. All sketches, photographs, calculations, and other data prepared under this agreement shall be made available, upon request, to the Department without restriction or limitation of their further use.

A. Intellectual property consists of copyrights, patents, and any other form of intellectual property rights covering any databases, software, inventions, training manuals, systems design, or other proprietary information in any form or medium.

B. All rights to Department. The Department shall own all of the rights (including copyrights, copyright applications, copyright renewals, and copyright extensions), title and interests in and to all data, and other information developed under this contract and versions thereof unless otherwise agreed to in writing that there will be joint ownership.

C. All rights to Subgrantee. Classes and materials initially developed by the Subgrantee without any type of funding or resource assistance from the Department remain the Subgrantee's intellectual property. For these classes and materials, the Department payment is limited to payment for attendance at classes.

ARTICLE 21. SUCCESSORS AND ASSIGNS

The Department and the Subgrantee each binds itself, its successors, executors, assigns, and administrators to the other party to this agreement and to the successors, executors, assigns, and administrators of the other party in respect to all covenants of this agreement. The Subgrantee shall not assign, sublet, or transfer interest and obligations in this agreement without written consent of the Department through eGrants.

ARTICLE 22. CIVIL RIGHTS COMPLIANCE

A. Compliance with regulations. The Subgrantee shall comply with the regulations relative to

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A. Compliance with regulations: The Subgrantee shall comply with the regulations relative to nondiscrimination in federally-assisted programs of the United States Department of Transportation (USDOT): 49 CFR, Part 21; 23 CFR, Part 200, and 41 CFR, Parts 60-74, as they may be amended periodically (called the "Regulations"). The Subgrantee agrees to comply with Executive Order 11246, entitled "Equal Employment Opportunity," as amended by Executive Order 11375 and as supplemented by the U.S. Department of Labor regulations (41 CFR, Part 60).

B. Nondiscrimination: (applies to subrecipients as well as States) The State highway safety agency and Subgrantee will comply with all Federal statutes and implementing regulations relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (Pub. L. 88-352), which prohibits discrimination on the basis of race, color or national origin (and 49 CFR Part 21); (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. 1681-1683 and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and the Americans with Disabilities Act of 1990 (Pub. L. 101-336), as amended (42 U.S.C. 12101, et seq.), which prohibits discrimination on the basis of disabilities (and 49 CFR Part 27); (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. 6101-6107), which prohibits discrimination on the basis of age; (e) the Civil Rights Restoration Act of 1987 (Pub. L. 100-259), which requires Federal-aid recipients and all subrecipients to prevent discrimination and ensure nondiscrimination in all of their programs and activities; (f) the Drug Abuse Office and Treatment Act of 1972 (Pub. L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (g) the comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (Pub. L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (h) Sections 523 and 527 of the Public Health Service Act of 1912, as amended (42 U.S.C. 290dd-3 and 290ee-3), relating to confidentiality of alcohol and drug abuse patient records; (i) Title VIII of the Civil Rights Act of 1968, as amended (42 U.S.C. 3601, et seq.), relating to nondiscrimination in the sale, rental or financing of housing; (j) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (k) the requirements of any other nondiscrimination statute(s) which may apply to the application.

C. Solicitations for subcontracts, including procurement of materials and equipment: In all solicitations either by competitive bidding or negotiation made by the Subgrantee for work to be performed under a subcontract, including procurements of materials and leases of equipment, each potential subcontractor or supplier shall be notified by the Subgrantee of the Subgrantee's obligations under this agreement and the regulations relative to nondiscrimination on the grounds of race, color, sex, national origin, age, religion, or disability.

D. Information and reports: The Subgrantee shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Department or the USDOT to be pertinent to ascertain compliance with the Regulations or directives. Where any information required of the Subgrantee is in the exclusive possession of another who fails or refuses to furnish this information, the Subgrantee shall certify that to the Department or the USDOT, whichever is appropriate, and shall set forth what efforts the Subgrantee has made to obtain the requested information.

E. Sanctions for noncompliance: In the event of the Subgrantee's noncompliance with the nondiscrimination provision of this agreement, the Department shall impose such sanctions as it or the USDOT may determine to be appropriate.

F. Incorporation of provisions: The Subgrantee shall include the provisions of paragraphs A. through E. in every subcontract, including procurements of materials and leases of equipment, unless exempt by the regulations or directives. The Subgrantee shall take any action with respect to any subcontract or procurement that the Department may direct as a means of enforcing those provisions, including sanctions for noncompliance. However, in the event a Subgrantee becomes involved in, or is threatened with litigation with a subcontractor or supplier as a result of such

direction, the Subgrantee may request the Department to enter into litigation to protect the interests of the state; and in addition, the Subgrantee may request the United States to enter into such litigation to protect the interests of the United States.

ARTICLE 23. DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM

A. The parties shall comply with the DBE Program requirements established in 49 CFR Part 26.

B. The Subgrantee shall adopt, in its totality, the Department's federally approved DBE program.

C. The Subgrantee shall set an appropriate DBE goal consistent with the Department's DBE guidelines and in consideration of the local market, project size, and nature of the goods or services to be acquired. The Subgrantee shall have final decision-making authority regarding the DBE goal and shall be responsible for documenting its actions.

D. The Subgrantee shall follow all other parts of the Department's DBE program referenced in TxDOT Form 2395, Memorandum of Understanding Regarding the Adoption of the Texas Department of Transportation's Federally-Approved Disadvantaged Business Enterprise by Entity and attachments found at web address <http://www.txdot.gov/business/partnerships/dbe.html>

E. The Subgrantee shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of any USDOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR Part 26. The Subgrantee shall take all necessary and reasonable steps under 49 CFR Part 26 to ensure non-discrimination in award and administration of USDOT-assisted contracts. The Department's DBE program, as required by 49 CFR Part 26 and as approved by USDOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as a violation of this agreement. Upon notification to the Subgrantee of its failure to carry out its approved program, the Department may impose sanctions as provided for under 49 CFR Part 26 and may, in appropriate cases, refer the matter for enforcement under 18 USC 1001 and the Program Fraud Civil Remedies Act of 1986 (31 USC 3801 et seq.).

F. Each contract the Subgrantee signs with a contractor (and each subcontract the prime contractor signs with a sub-contractor) must include the following assurance: The contractor, sub-recipient, or sub-contractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of USDOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this agreement, which may result in the termination of this agreement or such other remedy as the recipient deems appropriate.

ARTICLE 24. CERTIFICATION REGARDING DEBARMENT AND SUSPENSION (applies to subrecipients as well as States)

Instructions for Primary Certification

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.

2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.

3. The certification in this clause is a material representation of fact upon which reliance was placed

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3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

4. The prospective primary participant shall provide immediate written notice to the department or agency to which this proposal is submitted if at any time the prospective primary participant learns its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

5. The terms covered transaction, debarred, suspended, ineligible, lower tier covered transaction, participant, person, primary covered transaction, principal, proposal, and voluntarily excluded, as used in this clause, have the meaning set out in the Definitions and coverage sections of 49 CFR Part 29. You may contact the department or agency to which this proposal is being submitted for assistance in obtaining a copy of those regulations.

6. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is proposed for debarment under 48 CFR Part 9, subpart 9.4, debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not proposed for debarment under 48 CFR Part 9, subpart 9.4, debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the list of Parties Excluded from Federal Procurement and Non-procurement Programs.

9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

10. Except for transactions authorized under paragraph 6 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is proposed for debarment under 48 CFR Part 9, subpart 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, and Other Responsibility Matters-Primary Covered Transactions

(1) The prospective primary participant certifies to the best of its knowledge and belief, that its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily

excluded by any Federal department or agency;

(b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of record, making false statements, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or Local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and

(d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

(2) Where the prospective primary participant is unable to certify to any of the Statements in this certification, such prospective participant shall attach an explanation to this proposal.

Instructions for Lower Tier Certification

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

4. The terms covered transaction, debarred, suspended, ineligible, lower tier covered transaction, participant, person, primary covered transaction, principal, proposal, and voluntarily excluded, as used in this clause, have the meanings set out in the Definition and Coverage sections of 49 CFR Part 29. You may contact the person to whom this proposal is submitted for assistance in obtaining a copy of those regulations.

5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is proposed for debarment under 48 CFR Part 9, subpart 9.4, debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

6. The prospective lower tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -- Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. (See below)

7. A participant in a covered transaction may rely upon a certification of a prospective participant in a

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7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not proposed for debarment under 48 CFR Part 9, subpart 9.4, debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the List of Parties Excluded from Federal Procurement and Non-procurement Programs.

8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is proposed for debarment under 48 CFR Part 9, subpart 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

ARTICLE 25. CERTIFICATION REGARDING FEDERAL LOBBYING (applies to subrecipients as well as States)

Certification for Contracts, Grants, Loans, and Cooperative Agreements

In executing this agreement, each signatory certifies to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, subgrants, and contracts under grant, loans, and cooperative agreements) and that all subrecipients shall certify and disclose

accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

ARTICLE 26. CHILD SUPPORT CERTIFICATION

Under Section 231.006, Texas Family Code, the Subgrantee certifies that the individual or business entity named in this agreement is not ineligible to receive the specified grant, loan, or payment and acknowledges that this agreement may be terminated and payment may be withheld if this certification is inaccurate. If the above certification is shown to be false, the Subgrantee is liable to the state for attorney's fees and any other damages provided by law or the agreement. A child support obligor or business entity ineligible to receive payments because of a payment delinquency of more than thirty (30) days remains ineligible until: all arrearages have been paid; the obligor is in compliance with a written repayment agreement or court order as to any existing delinquency; or the court of continuing jurisdiction over the child support order has granted the obligor an exemption from Subsection (a) of Section 231.006, Texas Family Code, as part of a court-supervised effort to improve earnings and child support payments.

ARTICLE 27. FEDERAL FUNDING ACCOUNTABILITY AND TRANSPARENCY ACT REQUIREMENTS

A. Any recipient of funds under this agreement agrees to comply with the Federal Funding Accountability and Transparency Act and implementing regulations at 2 CFR Part 170, including Appendix A. This agreement is subject to the following award terms:
<http://edocket.access.gpo.gov/2010/pdf/2010-22705.pdf> and
<http://edocket.access.gpo.gov/2010/pdf/2010-22706.pdf>.

B. The Subgrantee agrees that it shall:

1. Obtain and provide to the State a System for Award Management (SAM) number (48 CFR subpt. 4.11) if this award provides for more than \$25,000 in Federal funding. The SAM number may be obtained by visiting the SAM web-site at: <https://www.sam.gov>
2. Obtain and provide to the State a Data Universal Numbering System (DUNS) number, a unique nine-character number that allows the Federal government to track the distribution of federal money. The DUNS number may be requested free of charge for all businesses and entities required to do so by visiting the Dun & Bradstreet (D&B) on-line registration website <http://fedgov.dnb.com/webform>; and
3. Report the total compensation and names of its top five (5) executives to the State if:
 - i. More than 80% of annual gross revenues are from the Federal government, and those revenues are greater than \$25,000,000; and
 - ii. The compensation information is not already available through reporting to the U.S. Securities and Exchange Commission.

ARTICLE 28. SINGLE AUDIT REPORT

ARTICLE 28. SINGLE AUDIT REPORT

A. The parties shall comply with the requirements of the Single Audit Act of 1984, P.L. 98-502, ensuring that the single audit report includes the coverage stipulated in 2 CFR Part 200.

B. If threshold expenditures of \$750,000 or more are met during the Subgrantee's fiscal year, the Subgrantee must submit a Single Audit Report and Management Letter (if applicable) to TxDOT's Audit Office, 125 East 11th Street, Austin, TX 78701 or contact TxDOT's Audit Office at singleaudits@txdot.gov

C. If expenditures are less than \$750,000 during the Subgrantee's fiscal year, the Subgrantee must submit a statement to TxDOT's Audit Office as follows: "We did not meet the \$750,000 expenditure threshold and therefore, are not required to have a single audit performed for FY ____."

D. For each year the project remains open for federal funding expenditures, the Subgrantee will be responsible for filing a report or statement as described above. The required annual filing shall extend throughout the life of the agreement, unless otherwise amended or the project has been formally closed out and no charges have been incurred within the current fiscal year.

ARTICLE 29. BUY AMERICA ACT (applies to subrecipients as well as States)

The State and Subgrantee will comply with the provisions of the Buy America Act (49 U.S.C. 5323 (j)), which contains the following requirements:

Only steel, iron and manufactured products produced in the United States may be purchased with Federal funds unless the Secretary of Transportation determines that such domestic purchases would be inconsistent with the public interest, that such materials are not reasonably available and of a satisfactory quality, or that inclusion of domestic materials will increase the cost of the overall project contract by more than 25 percent. Clear justification for the purchase of non-domestic items must be in the form of a waiver request submitted to and approved by the Secretary of Transportation.

ARTICLE 30. RESTRICTION ON STATE LOBBYING (applies to subrecipients as well as States)

None of the funds under this program will be used for any activity specifically designed to urge or influence a State or local legislator to favor or oppose the adoption of any specific legislative proposal pending before any State or local legislative body. Such activities include both direct and indirect (e.g., "grassroots") lobbying activities, with one exception. This does not preclude a State official whose salary is supported with NHTSA funds from engaging in direct communications with State or local legislative officials, in accordance with customary State practice, even if such communications urge legislative officials to favor or oppose the adoption of a specific pending legislative proposal.

ARTICLE 31. NONGOVERNMENTAL ENTITY'S PUBLIC INFORMATION [This article applies only to non-profit entities]

The Subgrantee is required to make any information created or exchanged with the Department pursuant to this Grant Agreement and not otherwise excepted from disclosure under the Texas Public Information Act, available in a format that is accessible by the public at no additional charge to the Department. [SB-1368, 83rd Texas Legislature, Regular Session, Effective 9/1/13]

ARTICLE 32. PROHIBITION ON USING GRANT FUNDS TO CHECK FOR HELMET USAGE

(applies to subrecipients as well as States)

The State and each Subgrantee will not use 23 U.S.C. Chapter 4 grant funds for programs to check helmet usage or to create checkpoints that specifically target motorcyclists.

ARTICLE 33. INTERNAL ETHICS AND COMPLIANCE PROGRAM

Subgrantee shall comply with Title 43 Texas Administrative Code §25.906(b). Subgrantee certifies it has adopted an internal ethics and compliance program that satisfies the requirements of Title 43 Texas Administrative Code §10.51 (relating to Internal Ethics and Compliance Program). Subgrantee shall enforce compliance with that program.

FOR REVIEW ONLY - NOT A LEGAL DOCUMENT

RESPONSIBILITIES OF THE SUBGRANTEE

- A. Carry out all performance measures established in the grant, including fulfilling the law enforcement objectives by implementing the Operational Plan contained in this Grant Agreement.
- B. Submit all required reports to the Department (TxDOT) fully completed with the most current information, and within the required times, as defined in Article 3 and Article 7 of the General Terms and Conditions of this Grant Agreement. This includes reporting to the Department on progress, achievements, and problems in monthly Performance Reports and attaching necessary source documentation to support all costs claimed in Requests for Reimbursement (RFR).
- C. Attend grant related training as requested by the Department.
- D. Attend meetings according to the following:
 - 1. The Department will arrange for meetings with the Subgrantee to present status of activities and to discuss problems and the schedule for the following quarter's work.
 - 2. The project director or other appropriate qualified persons will be available to represent the Subgrantee at meetings requested by the Department.
- E. Support grant enforcement efforts with public information and education (PI&E) activities. Salaries being claimed for PI&E activities must be included in the budget.
- F. When applicable, all newly developed PI&E materials must be submitted to the Department for written approval, through the TxDOT Electronic Grants Management System (eGrants) system messaging, prior to final production. Refer to the Traffic Safety Program Manual regarding PI&E procedures.
- G. For out of state travel expenses to be reimbursable, the Subgrantee must have obtained the written approval of the Department, through eGrants system messaging, prior to the beginning of the trip. Grant approval does not satisfy this requirement.
- H. Maintain verification that all expenses, including wages or salaries, for which reimbursement is requested is for work exclusively related to this project.
- I. Ensure that this grant will in no way supplant (replace) funds from other sources. Supplanting refers to the use of federal funds to support personnel or any activity already supported by local or state funds.
- J. Ensure that each officer working on the STEP project will complete an officer's daily report form. The form should include at a minimum: name, date, badge or identification number, type of grant worked, grant site number, mileage (including starting and ending mileage), hours worked, type of citation issued or arrest made, officer and supervisor signatures.

- K. All STEP agencies must provide the following provision in all daily activity report forms:
"I understand that this information is being submitted to support a claim against a federally-funded grant program. False statements on this form may be prosecutable under 18 USC 1001. This information on this form is true, correct, and complete to the best of my knowledge and ability."
- L. Ensure that no officer above the rank of Lieutenant (or equivalent title) will be reimbursed for enforcement duty, unless the Subgrantee received specific written authorization from the Department, through eGrants system messaging, prior to incurring costs.
- M. Subgrantee may work additional STEP enforcement hours on holidays or special events not covered under the Operational Plan. However, additional work must be approved in writing by the Department, through eGrants system messaging, prior to enforcement. Additional hours must be reported in the Performance Report for the time period for which the additional hours were worked.
- N. If an officer makes a STEP-related arrest during the shift, but does not complete the arrest before the shift is scheduled to end, the officer can continue working under the grant to complete that arrest.
- O. Subgrantees with a traffic unit will utilize traffic personnel for this grant, unless such personnel are unavailable for assignment.
- P. Prior to conducting speed enforcement, the Subgrantee must select and survey enforcement sites that comply with existing state mandated speed limits in accordance with the Texas Transportation Code, Sections 545.352 through 545.356.
- Q. Officers assigned to speed sites should be trained in the use of radar or laser speed measurement devices.
- R. The Subgrantee should have a safety belt use policy. If the Subgrantee does not have a safety belt use policy in place, a policy should be implemented, and a copy maintained for verification during the grant year.
- S. Officers working DWI enforcement must be trained in the National Highway Traffic Safety Administration/International Association of Chiefs of Police Standardized Field Sobriety Testing (SFST). In the case of a first year subgrantee, the officers must be trained, or scheduled to be SFST trained, by the end of the grant year. For second or subsequent year grants, all officers working DWI enforcement must be SFST trained.
- T. The Subgrantee should have a procedure in place for contacting and using drug recognition experts (DREs) when necessary.
- U. The Subgrantee is encouraged to use the DWI On-line Reporting System available through the Buckle Up Texas Web site at www.buckleuptexas.com.

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RESPONSIBILITIES OF THE DEPARTMENT

- A. Monitor the Subgrantee's compliance with the performance obligations and fiscal requirements of this Grant Agreement using appropriate and necessary monitoring and inspections, including but not limited to:
 - 1. review of periodic reports
 - 2. physical inspection of project records and supporting documentation
 - 3. telephone conversations
 - 4. e-mails and letters
 - 5. quarterly review meetings
 - 6. eGrants
- B. Provide program management and technical assistance.
- C. Attend appropriate meetings.
- D. Reimburse the Subgrantee for all eligible costs as defined in the project budget. Requests for Reimbursement will be processed up to the maximum amount payable as indicated in the project budget.
- E. Perform an administrative review of the project at the close of the grant period to:
 - 1. Ascertain whether or not the project objectives were met
 - 2. Review project accomplishments (performance measures completed, targets achieved)
 - 3. Account for any approved Program Income earned and expended
 - 4. Identify exemplary performance or best practices

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PROGRAM ELEMENT SELECTION

YEAR LONG

X	DWI	DWI: Driving While Intoxicated
X	Speed	Speed: Speed Enforcement
X	OP	OP: Occupant Protection (Safety Belt and Child Safety Seat)
X	ITC	ITC: Intersection Traffic Control
	DD	DD: Distracted Driving

WAVE

DWI	Jurisdiction wide (DWI enforcement effort must be focused at locations where there is an over-representation of alcohol-related crashes and/or DWI arrests)
Speed	Jurisdiction wide (Speed enforcement should be focused on areas where there is at least a 50% noncompliance with the posted speed limits and/or a higher number of speed-related crashes)
OP	Jurisdiction wide
DD	Jurisdiction wide

CMV

Speed,OP&HNV	CMV: Commercial Motor Vehicle; HNV: Hazardous Moving Violations
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GOALS AND STRATEGIES

Goal: To increase effective enforcement and adjudication of traffic safety-related laws to reduce crashes, fatalities, and injuries.

Strategies: Increase and sustain high visibility enforcement of traffic safety-related laws.
Increase public education and information campaigns regarding enforcement activities.

Goal: To reduce the number of alcohol impaired and driving under the influence of alcohol and other drug-related crashes, injuries, and fatalities.

Strategy: Increase and sustain high visibility enforcement of DWI laws.

Goal: To increase occupant restraint use in all passenger vehicles and trucks.

Strategy: Increase and sustain high visibility enforcement of occupant protection laws.

Goal: To reduce the number of speed-related crashes, injuries, and fatalities.

Strategy: Increase and sustain high visibility enforcement of speed-related laws.

Goal: To reduce intersection-related motor vehicle crashes, injuries, and fatalities.

Strategy: Increase and sustain high visibility enforcement of Intersection Traffic Control (ITC) laws.

Goal: To reduce Distracted Driving motor vehicle crashes, injuries, and fatalities.

Strategies: Increase and sustain high visibility enforcement of state and local ordinances on cellular and texting devices.
Increase public information and education on Distracted Driving related traffic issues.

☒ I agree to the above goals and strategies.

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BASELINE INFORMATION

Baseline Year (12 months)

From 10/1/2015 to 9/30/2016

Baseline Measure	Baseline Number	
Number of Driving While Intoxicated (DWI) arrests	190	
Number of Driving Under Influence (DUI) of Alcohol by Minor Arrests/Citations	7	
Number of speed citations	11273	
Number of safety belt citations	874	
Number of child safety seat citations	204	
Number of Intersection Traffic Control (ITC) citations	1423	
Number of Distracted Driving Citations	0	
	Baseline Number	Month/Year of Survey
Percentage of speed compliance	26.03 %	09/2016
Percentage of safety belt usage	91.9 %	09/2016

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LAW ENFORCEMENT OBJECTIVE/PERFORMANCE MEASURE

Objective/Performance Measure	Target Number
1. Number and type citations/arrests to be issued under STEP	
a. Increase DWI arrests by	236
b. Increase DUI of Alcohol by Minor arrests/citations by	24
c. Increase speed citations by	2982
d. Increase Safety Belt citations by	1988
e. Increase Child Safety Belt citations by	120
f. Increase ITC citations by	1491
g. Increase Distracted Driving citations by	
2. Proposed total number of traffic-related crashes	
a. Reduce the number of alcohol-related crashes to	120
b. Reduce the number of speed-related crashes to	648
c. Reduce the number of ITC-related crashes to	900
3. Increase speed compliance	
a. Increase the Speed compliance rate to	27%
4. Increase safety belt usage	
a. Increase the Safety Belt usage rate among drivers and front seat passengers to	93%
5. Number of Enforcement Hours	4256

Note: Nothing in this agreement shall be interpreted as a requirement, formal or informal, that a peace officer issue a specified or predetermined number of citations in pursuance of the Subgrantee's obligations hereunder. Department and Subgrantee acknowledge that Texas Transportation Code Section 720.002 prohibits using traffic-offense quotas and agree that nothing in this Agreement is establishing an illegal quota.

In addition to the STEP enforcement activities, the subgrantee must maintain baseline non-STEP funded citation and arrest activity due to the prohibition of supplanting.

Step Indicator	3.18
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PI&E OBJECTIVE/PERFORMANCE MEASURE

Objectives/Performance Measure	Target Number
Support Grant efforts with a public information and education (PI&E) program	
a. Conduct presentations	5
b. Conduct media exposures (e.g. news conferences, news releases, and interviews)	5
c. Conduct community events (e.g. health fairs, booths)	3
d. Produce the following number of public information and education materials	0
e. Number of public information and education materials distributed	3000

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Operational Plan

Page Title: DWI Enforcement

<u>Site Number</u>	<u>Type (Speed, OP, ITC)</u>	<u>Site Description (include Miles Per Hour)</u>	<u>Survey Results (Compliance Percentage)</u>	<u>Enforcement Period (Days & Times)</u>
1. 1	DWI	Jurisdiction wide	%	Monday-Sunday 5p-5a
2.			%	
3.			%	
4.			%	
5.			%	
6.			%	
7.			%	

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Operational Plan

Page Title: ITC Enforcement

<u>Site Number</u>	<u>Type (Speed, OP, ITC)</u>	<u>Site Description (include Miles Per Hour)</u>	<u>Survey Results (Compliance Percentage)</u>	<u>Enforcement Period (Days & Times)</u>
1. 1	ITC	Centerville Rd & Northwest Hwy	%	Monday - Sunday 6a - 11p
2. 2	ITC	Plano Rd & W. Walnut St	%	Monday - Sunday 6a - 11p
3. 3	ITC	First St. & Main St. @ Lavon Hwy.	%	Monday - Sunday 6a - 11p
4. 4	ITC	S. Garland Ave. & Ave.D	%	Monday - Sunday 6a - 11p
5. 5	ITC	N. Shiloh Rd. & W. Buckingham Rd.	%	Monday - Sunday 6a - 11p
6. 6	ITC	W. Miller Rd. & S. Garland Ave.	%	Monday - Sunday 6a - 11p
7. 7	ITC	W. Kingsley Rd. & S. Garland Ave.	%	Monday - Sunday 6a - 11p

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Operational Plan

Page Title: ITC Enforcement (cont.)

<u>Site Number</u>	<u>Type (Speed, OP, ITC)</u>	<u>Site Description (include Miles Per Hour)</u>	<u>Survey Results (Compliance Percentage)</u>	<u>Enforcement Period (Days & Times)</u>
1. 8	ITC	Northwest Hwy. & Saturn Rd.	%	Monday - Sunday 6AM - 11PM
2. 9	ITC	S. First St. & Miller Rd.	%	Monday - Sunday 6AM - 11PM
3. 10	ITC	Beltline Rd. & N. Garland Ave.	%	Monday - Sunday 6AM - 11PM
4. 11	ITC	Forest Lane & Shiloh Rd.	%	Monday - Sunday 6AM - 11PM
5.			%	
6.			%	
7.			%	

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Operational Plan

Page Title: OP Enforcement

<u>Site Number</u>	<u>Type (Speed, OP, ITC)</u>	<u>Site Description (include Miles Per Hour)</u>	<u>Survey Results (Compliance Percentage)</u>	<u>Enforcement Period (Days & Times)</u>
1. 1	OP	Jurisdiction Wide	91.9%	Monday - Sunday 6am - 2 am
2.			%	
3.			%	
4.			%	
5.			%	
6.			%	
7.			%	

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Operational Plan

Page Title: Speed Enforcement

<u>Site Number</u>	<u>Type (Speed, OP, ITC)</u>	<u>Site Description (include Miles Per Hour)</u>	<u>Survey Results (Compliance Percentage)</u>	<u>Enforcement Period (Days & Times)</u>
1.1	SPEED	Campbell Rd. 3400W - 400E 40 MPH 3.8 Miles	24%%	Monday - Sunday 6AM - 2AM
2.2	SPEED	SH 190 (PGBT) 3300 - 8000 70 MPH 5.5 Miles	18%%	Monday - Sunday 6AM - 2AM
3.3	SPEED	W. Walnut 1400 - 4400 35 MPH 3.0 Miles	30%%	Monday - Sunday 6AM - 2AM
4.4	SPEED	Plano Rd. 400 S - 1900 N 40 MPH 1.4 Miles	40%%	Monday - Sunday 6AM - 2AM
5.5	SPEED	Shiloh Rd 3700 S - 6900 N 40 MPH 7.3 Miles	20%%	Monday - Sunday 6AM - 2AM
6.6	SPEED	IH-30 1100 W - 1600 E 65 MPH 4.6 Miles	7%%	Monday - Sunday 6AM - 2AM

City of Garland - Police Department
STEP-2018

7.7	SPEED	Centerville Rd 3700 E - 1300 W 40 MPH 5.7 Miles	49%%	Monday - Sunday 6AM - 2AM
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Operational Plan

Page Title: SPEED Enforcement (cont.)

<u>Site Number</u>	<u>Type (Speed, OP, ITC)</u>	<u>Site Description (include Miles Per Hour)</u>	<u>Survey Results (Compliance Percentage)</u>	<u>Enforcement Period (Days & Times)</u>
1. 8	SPEED	S Garland Ave. 2000 - City Limits 45 MPH 2.2 Miles	22.39%	Monday - Sunday 6AM - 2AM
2. 9	SPEED	Saturn Rd. 2000 - 4300 35 MPH 2.0 Miles	19.05%	Monday - Sunday 6AM - 2AM
3. 10	SPEED	Oates 500 E - 800 W 40 MPH 1.5 Miles	33.50%	Monday - Sunday 6AM - 2AM
4.			%	
5.			%	
6.			%	
7.			%	

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BUDGET SUMMARY

Budget Category		TxDOT	Match	Total
Category I - Labor Costs				
(100)	Salaries:	\$248,816.37	\$89,992.16	\$338,808.53
(200)	Fringe Benefits:	\$0	\$40,487.62	\$40,487.62
	Sub-Total:	\$248,816.37	\$130,479.78	\$379,296.15
Category II - Other Direct Costs				
(300)	Travel:	\$0	\$11,934.00	\$11,934.00
(400)	Equipment:	\$0	\$0	\$0
(500)	Supplies:	\$0	\$0	\$0
(600)	Contractual Services:	\$0	\$0	\$0
(700)	Other Miscellaneous:	\$0	\$0	\$0
	Sub-Total:	\$0	\$11,934.00	\$11,934.00
Total Direct Costs:		\$248,816.37	\$142,413.78	\$391,230.15
Category III - Indirect Costs				
(800)	Indirect Cost Rate:	\$0	\$0	\$0
Summary				
	Total Labor Costs:	\$248,816.37	\$130,479.78	\$379,296.15
	Total Direct Costs:	\$0	\$11,934.00	\$11,934.00
	Total Indirect Costs:	\$0	\$0	\$0
Grand Total		\$248,816.37	\$142,413.78	\$391,230.15
	Fund Sources (Percent Share):	63.60%	36.40%	
Salary and cost rates will be based on the rates submitted by the Subgrantee in its grant application in Egrants.				



GARLAND POLICY REPORT

City Council Work Session Agenda

2.d.

Meeting Date: September 5, 2017

Item Title: Resale of Tax Foreclosed Property - 116 S. 4th Street

Submitted By: Corey Worsham, Tax Administrator

Council Goal: Sustainable Quality Development and Redevelopment
Financially Stable Government with Tax Base that Supports Community Needs

ISSUE

The City of Garland has received an unsolicited offer from Duck Creek Commercial, LLC related to the purchase of City owned property obtained through a Sheriff's Sale. This property is located at 116 S. 4th Street. Duck Creek Commercial, LLC has offered \$11,500 for the property which exceeds the 1994 judgment of \$9,066.16. The net proceeds from the offer to the City of Garland would be \$1,500 for maintenance and \$2,994.03 for City property taxes.

OPTIONS

The City Council May:

1. Approve the sale of 116 S. 4th Street to Duck Creek Commercial, LLC and provide an executed deed without warranty, or
2. Deny the offer presented by Duck Creek Commercial, LLC.

RECOMMENDATION

Staff recommends that the City Council accept the offer and sell the property to Duck Creek Commercial, LLC. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 19, 2017 Regular Meeting.

BACKGROUND

The property was struck off to the City of Garland at a Sheriff's Sale on March 1, 1994. Because the offer is greater than the judgment amount, this sale meets the criteria of Section 34.05(h) of the Texas Property Tax Code and does not require the consent of other taxing entities. If the sale is approved, the City of Garland will accept payment on behalf of all entities and disperse all sale proceeds.

CONSIDERATION

This property has been held by the City of Garland since 1994. Pursuant to Section 34.05 of the Texas Property Tax Code it may be resold to a private entity with approval of the governing body. The sale of this property further supports a stable tax base and future development opportunities.

Attachments

116 S. 4th - Offer

116 S. 4th - Map and Picture

116 S. 4th - Resolution

Exhibit A - 116 S. 4th Deed

PerdueBrandonFielderCollins&Mott LLP
ATTORNEYS AT LAW

1919 S. SHILOH RD.
GARLAND, TEXAS 75042
TELEPHONE 972-278-8282
FAX 972-278-8222
www.pbfcml.com

J. Douglas Burnside
ATTORNEY AT LAW
dburnside@pbfcml.com

August 8, 2017

Mr. Corey Worsham
Tax Assessor/Collector
City of Garland
217 N. 5th Street
Garland, Texas 75040

Via electronic-mail

Re: Offer from Duck Creek Commercial, LLC to purchase
116 S. 4th Street, Garland, Texas

Dear Mr. Worsham:

Duck Creek Commercial, LLC has offered to purchase 116 S. 4th Street, Garland, Texas (BEING ALL THAT CERTAIN 106' X 62.5' TRACT OF LAND OUT OF LOT 4 IN BLOCK 2 OF THE DUCK CREEK ADDITION TO THE CITY OF GARLAND, TEXAS, AND BEING MORE PARTICULARLY DESCRIBED IN THAT CERTAIN DEED OF RECORD IN VOLUME 72096, PAGE 1753 OF THE DEED RECORDS OF DALLAS COUNTY, TEXAS.) for \$11,500.00.

This property was sold at a Sheriff's Sale on March 1, 1994 pursuant to delinquent tax collection suit number TX88-40178. There were no bidders and the property was struck off to the City of Garland for itself and on behalf of the other taxing jurisdictions.

The property's most recent value according to the Appraisal District is \$22,750.00. The total judgment amount against this property is \$9,066.16, which includes taxes, penalties and interest, costs of court, and costs of sale.

Pursuant to the Texas Property Tax Code, City reimbursement for post-sale maintenance, court costs and costs of sale must be paid first out of the proceeds of a resale. Those expenses and costs total \$2,111.60. The remainder would be distributed to the taxing jurisdictions pro-rata. A breakdown of amounts each taxing entity will receive is enclosed.

Because the sale price is greater than the total judgment amount against this property, this sale meets the criteria of §34.05(h) and does not require the consent of the other taxing units in the Judgment.

If the City decides to accept this offer, enclosed for execution is a Special Warranty Deed our office prepared for this resale. When the Deed is executed, please return it to me so that I may finalize the transaction.

If you have any questions or need additional information, please do not hesitate to call me.

Sincerely,

A handwritten signature in blue ink, appearing to read "J. Douglas Burnside", is written over a light blue rectangular background.

J. Douglas Burnside

Enclosure

Re-sale Disbursement Worksheet
City of Garland

CAD Acct #:	26142500020040000
Property address:	116 S. 4th Street
Cause No.:	TX88-40178
Judgment Date:	October 13, 1993
Sheriff's Sale Date:	March 1, 1994
Judgment amount:	GISD 1987-1993 taxes \$3,068.21 (49.0%)
	City 1985-1993 taxes \$1,997.30 (31.9%)
	County 1987-1993 taxes \$1,197.44 (19.1%)
Total Judgment for Taxes:	\$6,262.95
Court costs:	\$0.60
Sheriff's fees for sale:	\$0.00
Publication fees for sheriff's sale, paid by Perdue Brandon:	\$611.00
Total Costs:	\$611.60

Checks to be disbursed as follows:

1.	Dallas County District Clerk	\$0.60
2.	Perdue, Brandon, Fielder, Collins & Mott, LLP	\$611.00
3.	City of Garland (administrative fee)	\$1,500.00
4.	City of Garland (Pro-rata Judgment tax year distribution)	\$2,994.03
5.	Garland ISD (Pro-rata Judgment tax year distribution)	\$4,599.36
6.	John Ames, Dallas County Tax Assessor (Pro-rata Judgment tax year distribution)	\$1,795.01
	TOTAL	\$11,500.00

The cause number and Dallas Central Appraisal District tax account number should be on all checks.

114 S 4th St. Garland, TX



RESOLUTION NO. _____

A RESOLUTION AGREEING TO THE SALE OF CERTAIN PROPERTY LOCATED WITHIN THE CITY OF GARLAND AND OWNED BY TAXING AUTHORITIES INCLUDING THE CITY OF GARLAND AS THE RESULT OF A TAX SALE; AUTHORIZING THE MAYOR TO EXECUTE A DEED WITHOUT WARRANTY; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, taxing entities including the City of Garland, Texas, have become owners of certain real property by virtue of a foreclosure sale conducted pursuant to an order of the 193rd Judicial District Court of Dallas County, Texas in cause number TX88-40178, and

WHEREAS, it is to the benefit of all taxing entities that the property ultimately be returned to the tax rolls

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GARLAND, TEXAS:

Section 1

That City agrees to the sale of certain real property being all that certain 106' X 62.5' tract of land out of Lot 4 in Block 2 of the Duck Creek addition to the City of Garland, Texas, and being more particularly described in that certain deed of record in volume 72096, page 1753 of the deed records of Dallas County, TX (the "Property")., also known as 116 S. 4th Street, Garland, Dallas County, Texas.

Section 2

That the Mayor is hereby authorized to execute a deed without warranty in the form and substance of that attached hereto as Exhibit "A".

Section 3

That this Resolution shall be and become effective immediately upon and after its adoption and approval.

PASSED AND APPROVED this the ___ day of _____, 2017.

CITY OF GARLAND, TEXAS

ATTEST:

Mayor

City Secretary

DEED WITHOUT WARRANTY

THE STATE OF TEXAS §
 § KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF DALLAS §

That the **City of Garland**, a Texas home-rule municipality ("Grantor"), for and in consideration of Ten and No/100 Dollars (\$10.00) and other good and valuable consideration to Grantor, the receipt and sufficiency of which is hereby acknowledged, paid in hand by **Duck Creek Commercial, LLC, 115 N. 9th Street, Garland, TX 75040** ("Grantee"), has GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL and CONVEY unto Grantee that certain lot, tract, or parcel of land, commonly known as **116 S. 4th Street**, situated in the City of Garland, County of Dallas, State of Texas, to wit:

**BEING ALL THAT CERTAIN 106' X 62.5' TRACT OF LAND
OUT OF LOT 4 IN BLCK 2 OF THE DUCK CREEK
ADDITION TO THE CITY OF GARLAND, TEXAS, AND
BEING MORE PARTICULARLY DESCRIBED IN THAT
CERTAIN DEED OF RECORD IN VOLUME 72096, PAGE 1753
OF THE DEED RECORDS OF DALLAS COUNTY, TEXAS. (the
"Property").**

This Deed Without Warranty is subject to:

- (i) any and all visible and apparent easements and encroachments, whether of record or not;
- (ii) any and all covenants, conditions, reservations, restrictions, exceptions, easements, rights-of-way, mineral interests, mineral leases, or other instruments of record applicable to the land or any part thereof;
- (iii) rights of the public to any portion of the above described property lying within the boundaries of dedicated or existing roadways or which may be used for road or street purposes;
- (iv) rights of parties in possession; and
- (v) any right of redemption as specified in Chapter 34, Subchapter B, Texas Property Tax Code.

It is understood and agreed that Grantor is not making any warranties or representations of any kind or character, express, implied or statutory, with respect to the Property, its physical condition or any other matter or thing relating to or affecting the Property and that the Property is being conveyed and transferred to Grantee "AS IS, WHERE IS, AND WITH ALL FAULTS." Grantor does not warrant or make any representations, express or implied, as to fitness for a particular purpose, merchantability, design, quantity, physical condition, operation compliance with specifications, absence of latent defects or compliance with laws and regulations (including,

without limitation, those relating to zoning, health, safety and the environment) or any other matter affecting the Property.

THIS DEED IS MADE WITHOUT WARRANTY, EXPRESS OR IMPLIED, AND GRANTOR EXPRESSLY DISCLAIMS, EXCEPTS AND EXCLUDES ANY AND ALL WARRANTIES OF TITLE OR OTHERWISE FROM THIS CONVEYANCE, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES ARISING UNDER COMMON LAW OR STATUTE.

The intent of this Deed Without Warranty is to transfer the Property foreclosed on by the Grantor taxing jurisdictions in Cause TX88-40178 in the 160th Judicial District Court, Dallas County, Texas, and no more.

When the context requires, singular nouns and pronouns include the plural.

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereto and in anywise belonging unto Grantee, his heirs, successors and assigns forever; **WITHOUT WARRANTY AND SUBJECT IN ALL RESPECTS TO THE DISCLAIMERS SET FORTH ABOVE.**

EXECUTED on the dates set forth in the acknowledgements below, to be EFFECTIVE on the _____ day of _____ 2017.

GRANTOR:

CITY OF GARLAND, a Texas home-rule municipality

By: _____

Title: _____

THE STATE OF TEXAS §

§

COUNTY OF DALLAS §

The foregoing instrument was acknowledged before me on the ____ day of _____, 2017, by _____, in his capacity as Mayor of the City of Garland.

NOTARY PUBLIC, STATE OF TEXAS

PRINTED NAME OF NOTARY

MY COMMISSION EXPIRES:



GARLAND POLICY REPORT

City Council Work Session Agenda

2.e.

Meeting Date: September 5, 2017

Item Title: 2017 Edward Byrne Memorial Justice Assistance Grant (JAG)

Submitted By: Mitch Bates, Chief of Police

Council Goal: Safe, Family-Friendly Neighborhoods

ISSUE

The Director of the Bureau of Justice Assistance (BJA) has made funds available to units of local government under the 2017 Edward Byrne Memorial Justice Assistance Grant (JAG) program for the purpose of reducing crime and improving public safety.

The Garland Police Department is eligible to apply to BJA for an estimated direct award of \$47,929.00 under this grant program. However, the Attorney General of the State of Texas has “certified” Garland as a disparate jurisdiction, thereby requiring us to enter into an agreement to share a portion of these funds with Dallas County. Currently, the agreement is for the City of Garland to share 30%, or approximately \$14,378.70, with Dallas County, which results in an award to the City of Garland in the amount of approximately \$33,550.30. From this amount, there will be a mandated 7% Administration Fee which is to be paid to the City of Dallas as they have designated as the area grant manager for all involved entities. The resulting estimated net award to the City of Garland will be approximately \$31,201.78.

This Justice Assistance Grant replaced the Local Law Enforcement Block Grant (LLEBG). JAG does not require any matching funds or contributions.

OPTIONS

1. Authorize submission of the grant application, which if approved by the federal government will pay an estimated \$31,201.78.
2. Disapprove submission of the grant application.

RECOMMENDATION

Staff recommends that Council approve submission of the application to the Bureau of Justice Assistance. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 5, 2017 Regular Meeting.

BACKGROUND

This will be the tenth year that the Garland Police Department has applied for funds under the new JAG program. The Bureau of Justice Assistance (BJA) has replaced the Edward J. Byrne Memorial State (Byrne Formula) and the Local Law Enforcement Block Grant (LLEBG) with the Justice Assistance Grant. The joining of the two grants allows states and local governments to support a broad range of activities to prevent and control crime and to improve the criminal justice system. The Garland Police Department received the following grant awards from JAG over the past five years:

- 2012 - \$31,050.75
- 2013 - \$26,872.63
- 2014 - \$28,052.24
- 2015- \$25,699.53
- 2016- \$29,586.65

CONSIDERATION

Pending negotiations with Dallas County, the Justice Assistance Grant should provide \$31,201.78 in funding. The grant will be for a 48-month period. At the conclusion of that time period, any unallocated funds must be returned to the federal government.

Funds must be used to supplement existing funds for program activities and cannot replace, or supplant, nonfederal funds that have been appropriated for the same purpose.

JAG funds can be used for state and local initiatives, technical assistance, training, personnel, equipment, supplies, contractual support and information systems for criminal justice for any one or more of the following purpose areas:

- Law Enforcement programs
 - Prosecution and court programs
 - Prevention and education programs
 - Corrections and community corrections programs
 - Drug treatment and enforcement programs
 - Planning, evaluation, technology improvement programs
 - Crime victim and witness programs (other than compensation)
-



GARLAND POLICY REPORT

City Council Work Session Agenda

2.f.

Meeting Date: September 5, 2017

Item Title: Right of Way Conveyance to TxDOT

Submitted By: Paul Luedtke, Transportation Director

Council Goal: Consistent Delivery of Reliable City Services

ISSUE

Consider granting City right-of-way to TxDOT for intersection improvements at SH78 and Miller Road. This agreement will allow the project to proceed with no monetary cost to the City.

RECOMMENDATION

Authorize the City Manager to enter into an agreement with TxDOT to convey rights of way at SH78 and Miller Road to TxDOT in lieu of a monetary payment to facilitate intersection improvements.

BACKGROUND

For many years, DART had been working on a project called Transit PASS. This project would add additional left/right turn lanes to SH 78 & Miller Road, SH 78 & Kingsley Road and SH 78 & Shiloh Road. Recently, TxDOT took over this project from DART and is moving forward with final plans, right of way acquisition and construction. Construction is scheduled to start by August 2018.

During the time that this was a DART led project, DART purchased ROW based on their original design and deeded that property to the City of Garland. The City of Garland now owns several parcels along SH 78.

When TxDOT took over the project, the construction plans were out of date and not in compliance with current standards. The TxDOT redesign requires that additional ROW be purchased which will proceed upon receipt of this agreement.

The project requires the City of Garland to provide local government participation of 10 percent for this additional right of way. Staff has come to an agreement with TxDOT to convey two of the parcels that we own (purchased by DART for this project) in lieu of a cash payment.

The attached exhibit shows the parcels at the Garland/Miller/Saturn intersection (in yellow on the attachment) that will be conveyed to TxDOT to satisfy our 10 percent local participation.

CONSIDERATION

TxDOT can't begin ROW acquisition until they have the resolution from Council.

Approval of this agreement will allow this project to proceed and the City of Garland will bear no monetary cost.

Attachments

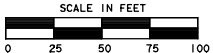
SH 78 ROW Map

TxDOT Agreement

WILLIAM H. BENNETT
SURVEY A-62

ALBERT CHANDLER
SURVEY A-269

END PROJECT (CL SH 78)
END CONTROL: 0009-02-064
END CONSTRUCTION
STATION: 162+99.88
Y 7,015,137.64
X 2,537,000.54



SCALE 1"=50'

P.I. STATION = 156+00.85
DELTA = 30°44'28" (LT)
DEGREE = 67°32'53"
TANGENT = 240.53'
LENGTH = 469.47'
RADIUS = 875.00'
P.C. STATION = 153+60.32
P.T. STATION = 158+29.79

LINE	BEARING	DISTANCE
L1	N59°50'08"W	1.27'
L2	N27°35'34"E	20.02'
L3	S59°50'08"E	2.17'
L4	S30°09'52"W	20.00'
L5	N27°35'34"E	80.08'
L6	S59°50'08"E	5.76'
L7	S30°09'52"W	80.00'
L8	N27°35'34"E	138.39'
L9	N30°09'04"E	124.51'
L10	N28°14'08"E	29.48'
L11	S47°27'46"E	0.67'
L12	S28°13'18"W	268.80'
L13	S61°40'54"E	3.23'
L14	S30°09'52"W	23.55'
L15	N01°10'36"W	10.19'
L16	S88°09'33"E	114.15'
L17	S87°10'39"E	76.91'
L18	S47°27'46"E	5.80'
L19	S88°37'51"W	82.99'
L20	N47°27'46"W	42.35'
L21	N01°10'36"W	3.99'
L22	N89°09'52"E	212.00'
L23	S30°20'08"E	49.24'
L24	S30°09'52"W	276.47'
L25	N01°09'16"W	9.73'
L26	N88°50'43"E	89.96'
L28	S89°24'31"W	25.30'
L29	S88°29'15"W	208.39'
L30	N30°09'52"E	241.21'
L31	S88°47'08"W	117.13'
L32	N30°09'52"E	188.70'
L33	S00°52'51"E	60.32'
L34	N89°07'09"E	80.41'
L35	S30°09'52"W	117.50'
L36	S86°11'05"W	75.68'
L37	S55°05'37"W	22.90'
L38	N02°03'13"W	22.97'
L39	N88°42'40"E	161.40'
L40	S88°42'40"W	126.93'
L41	S83°05'54"W	35.58'
L42	N53°05'37"E	12.06'
L43	S02°03'19"E	10.00'
L44	N88°48'13"E	28.92'
L45	N01°22'58"E	7.68'
L46	S88°38'33"E	104.74'
L47	N57°42'47"E	43.20'
L48	N16°12'25"E	155.03'
L49	N89°08'38"E	1.12'
L50	S00°51'22"E	63.74'
L51	S88°31'42"W	154.37'
L52	N01°22'58"E	0.74'
L53	N01°22'58"E	5.00'
L54	S88°38'33"E	103.23'
L55	N57°42'47"E	30.11'
L56	N14°57'47"E	172.88'
L57	S73°47'35"E	15.83'
L58	S16°12'25"W	133.48'
L59	N88°48'13"E	184.14'
L60	S16°12'25"W	35.82'
L61	S73°47'35"E	34.67'
L62	N14°57'47"E	28.73'
L63	N15°29'38"E	82.67'
L64	N08°18'54"E	49.96'
L65	S45°36'09"E	16.82'
L66	S16°12'25"W	21.55'
L67	N88°48'13"E	149.99'
L68	S72°00'11"E	56.84'
L69	N88°59'13"E	27.31'
L70	S45°36'09"E	22.19'
L71	N08°18'54"E	12.69'
L72	N00°33'53"W	165.88'
L73	N05°41'21"E	43.83'
L74	S84°18'39"E	10.00'
L75	S05°41'21"W	43.28'
L76	S00°33'53"E	100.00'
L77	N89°25'53"E	8.81'
L78	S01°10'36"E	98.23'

CITY OF GARLAND
DEED
RT STA. 154+91.76 to 155+47.94
INSTRUMENT NUMBER
1,157 SF
REMAINDER 0 SF

MIRAMI, LLC
DEED
RT STA. 154+98.69 to 155+60.30
INSTRUMENT NUMBER
1,950 SF
REM = 1.151 AC.

CITY OF GARLAND
DEED
LT STA. 153+91.72 to 159+75.96
INSTRUMENT NUMBER
8,519 SF
REM = 0 SF

THE PEDERSEN TRIPLET TRUST 2007
DEED
LT STA. 154+00.53 to 156+76.75
INSTRUMENT NUMBER
3,073 SF
REM = 0.933 AC.

CRAIG N. PEDERSEN & KRIS B. PEDERSEN
DEED
LT STA. 156+76.75 to 158+49.07
INSTRUMENT NUMBER
2,351 SF
REM = 0.797 AC.

WALMART REAL ESTATE BUSINESS TRUST
DEED
LT STA. 158+49.07 to 160+71.06
INSTRUMENT NUMBER
2,761 SF
REM = 5.720 AC.

NIEVES A. MARQUEZ AND WIFE, IRMA Z. MARQUEZ
DEED
LT STA. 149+61.81 to 150+41.81
INSTRUMENT NUMBER
317 SF
REM = 9.283 SF

2009 SOUTH GARLAND AVE., LLC
DEED
LT STA. 150+41.81 to 153+41.73
INSTRUMENT NUMBER
8 PART 1 = 995 SF
8 PART 2 = 1,728 SF
TOTAL = 2,723 SF
REM = 0.916 AC.

CITY OF GARLAND
DEED
LT STA. 150+65.25 to 153+42.98
INSTRUMENT NUMBER
4,799 SF
REM = 0 SF

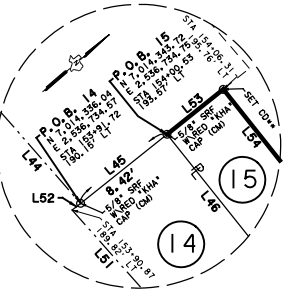
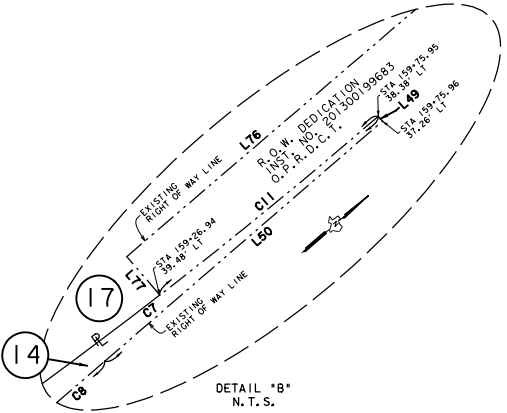
HNP PROPERTIES, LLC
DEED
LT STA. 152.01.88 to 152+44.83
INSTRUMENT NUMBER
991 SF
REM = 9.089 SF

THE KANSAS CITY SOUTHERN RAILWAY COMPANY
JOINT USE AGREEMENT
RT STA. 153+92.49 to 155+66.87
INSTRUMENT NUMBER
12,885 SF

LORENZO BENAVIEZ
DEED
LT STA. 149+41.81 to 149+61.81
INSTRUMENT NUMBER
34 SF
REM = 2,366 SF

CURVE	DELTA	RADIUS	ARC LENGTH	CHORD BRG.	CHORD DIST.
C1	02°44'15" (LT)	590.00'	28.19'	S89°59'59"W	28.19'
C2	07°04'19" (RT)	680.00'	83.93'	N87°49'59"W	83.88'
C3	06°17'44" (LT)	590.00'	64.83'	N87°26'41"W	64.80'
C4	05°42'04" (RT)	675.36'	67.20'	S83°20'03"W	67.17'
C5	06°36'28" (RT)	683.00'	78.77'	S86°24'08"W	78.72'
C6	02°12'58" (LT)	879.41'	34.01'	N17°18'54"E	34.01'
C7	17°02'47" (LT)	911.24'	271.11'	N07°41'02"E	270.11'
C8	23°25'30" (RT)	1,029.13'	420.75'	S10°51'23"W	417.83'
C9	08°17'23" (RT)	911.24'	131.84'	S12°03'43"W	131.73'
C10	05°40'24" (RT)	911.24'	90.23'	S05°04'50"W	90.20'
C11	03°04'59" (LT)	911.24'	49.03'	N00°42'08"E	49.03'

FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.			HIGHWAY NO.
	TEXAS				SH 78
STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
18	DALLAS	0009	02	064	6



County Dallas
District Dallas
ROW CSJ # 0009-02-064
CCSJ # 0009-02-040
Federal Project #: _____
CFDA Title: Highway Planning & Construction
CFDA # 20.205
Federal Highway Administration
Not Research and Development

STATE OF TEXAS §

COUNTY OF TRAVIS §

AGREEMENT TO CONTRIBUTE RIGHT OF WAY FUNDS (FIXED PRICE)

THIS AGREEMENT is made by and between the State of Texas, acting through the Texas Department of Transportation, (the "**State**"), and the City of Garland, Texas, acting through its duly authorized officials (the "**Local Government**").

WITNESSETH

WHEREAS, Texas Transportation Code §§ 201.103 and 222.052 establish that the State shall design, construct, and operate a system of highways in cooperation with local governments; and

WHEREAS, Texas Transportation Code, §§ 201.209 authorizes the State and a Local Government to enter into agreements in accordance with Texas Government Code, Chapter 791; and

WHEREAS, the State has deemed it necessary to make certain highway improvements on Highway No. SH 78 from IH 635 to Forest Lane in Garland, and this section of highway improvements will necessitate the acquisition of certain right of way and the relocating and adjusting of utilities (the "**Project**"); and

WHEREAS, the Local Government requests that the State assume responsibility for acquisition of all necessary right of way and adjustment of utilities for this highway project; and

WHEREAS, the Local Government desires to enter into a fixed price joint participation agreement pursuant to 43 TAC §15.52 to contribute to the State funding participation as defined in 43 TAC §15.55 for the cost of acquiring the right of way and relocating or adjusting utilities for the proper improvement of the State Highway System;

WHEREAS, the Governing Body of the Local Government has approved entering into this agreement by resolution or ordinance dated _____, 20__, which is attached to and made a part of this agreement as Attachment A. A map showing the Project location appears in Attachment B, which is attached to and made a part of this agreement.

NOW THEREFORE, the State and the Local Government do agree as follows:

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AGREEMENT

1. Agreement Period

This agreement becomes effective when signed by the last party whose signing makes the agreement fully executed. This agreement shall remain in effect until the Project is completed or unless terminated as provided below.

2. Termination

This agreement shall remain in effect until the Project is completed and accepted by all parties, unless:

- A. The agreement is terminated in writing with the mutual consent of the parties;
- B. The agreement is terminated by one party because of a breach, in which case any cost incurred because of the breach shall be paid by the breaching party; or
- C. The Project is inactive for thirty-six (36) months or longer and no expenditures have been charged against federal funds, in which case the State may in its discretion terminate this agreement.

3. Local Project Sources and Uses of Funds

- A. The total estimated cost of the Project is shown in Attachment C, Project Budget Estimate and Payment Schedule, which is attached to and made a part of this agreement. The expected cash contributions from the Federal or State government, the Local Government, or other parties is shown in Attachment C. The Local Government shall pay to the State the amount shown in Attachment C as its required contribution of the total cost of the Project and shall transmit to the State with the return of this agreement, duly executed by the Local Government, a warrant or check for the amount and according to the payment schedule shown in Attachment C.
- B. The Local Government's fixed price contribution set forth in Attachment C is not subject to adjustment unless:
 - 1. site conditions change;
 - 2. work requested by the Local Government is ineligible for federal participation; or
 - 3. the adjustment is mutually agreed on by the State and the Local Government.
- C. If the Local Government will perform any work under this contract for which reimbursement will be provided by or through the State, the Local Government must complete training before federal spending authority is obligated. Training is complete when at least one individual who is working actively and directly on the Project successfully completes and receives a certificate for the course entitled *Local Government Project Procedures Qualification for the Texas Department of Transportation*. The Local Government shall provide the certificate of qualification to the State. The individual who receives the training certificate may be an employee of the Local Government or an employee of a firm that has been contracted by the Local

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Government to perform oversight of the Project. The State in its discretion may deny reimbursement if the Local Government has not designated a qualified individual to oversee the Project.

- D. Whenever funds are paid by the Local Government to the State under this agreement, the Local Government shall remit a warrant or check made payable to the "Texas Department of Transportation Trust Fund." The warrant or check shall be deposited by the State in an escrow account to be managed by the State. Funds in the escrow account may only be applied to this highway project.
- E. Notwithstanding that this is a fixed price agreement, the Local Government agrees that in the event any existing, future, or proposed Local Government ordinance, commissioner's court order, rule, policy, or other directive, including, but not limited to, outdoor advertising or storm water drainage facility requirements, is more restrictive than State or federal regulations, or any other locally proposed change, including, but not limited to, plats or re-plats, results in any increased costs to the State, then the Local Government will pay one hundred percent (100%) of all those increased costs, even if the applicable county qualifies as an Economically Disadvantaged County (EDC). The amount of the increased costs associated with the existing, future, or proposed Local Government ordinance, commissioner's court order, rule, policy, or other directive will be determined by the State at its sole discretion.
- F. If the Local Government is an EDC and if the State has approved adjustments to the standard financing arrangement, this agreement reflects those adjustments.
- G. If the Project has been approved for an "incremental payment" non-standard funding or payment arrangement under 43 TAC §15.52, the budget in Attachment C will clearly state the incremental payment schedule.

4. Real Property in Lieu of Monetary Payment

- A. Contributions of real property may be credited to the Local Government's funding obligation for the cost of right of way to be acquired for this project. Credit for all real property, other than property which is already dedicated or in use as a public road, contributed by the Local Government to the State shall be based on the property's fair market value established as of the effective date of this agreement. The fair market value shall not include increases or decreases in value caused by the project and should include the value of the land and improvements being conveyed, excluding any damages to the remainder. The amount of any credit for real property contributed for this project is clearly shown in Attachment C.
- B. The Local Government will provide to the State all documentation to support the determined fair market value of the donated property. This documentation shall include an appraisal of the property by a licensed appraiser approved by the State. The cost of appraisal will be the responsibility of the State. The State will review the submitted documentation and make a final determination of value; provided however, the State may perform any additional investigation deemed necessary, including supplemental appraisal work by State employees or employment of fee appraisers.

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- C. Credit shall be given only for property transferred at no cost to the State after the effective date of this agreement and the issuance of spending authority, and only for property which is necessary to complete this project, has title acceptable to the State, and is not contaminated with hazardous materials. Credit shall be in lieu of monetary contributions required to be paid to the State for the Local Government's funding share of the right of way to be acquired for this project. The total credit cannot exceed the Local Government's matching share of the right of way obligation under this agreement, and credits cannot be reimbursed in cash to the Local Government, applied to project phases other than right of way, nor used for other projects.
- D. In the event the Local Government's monetary contributions to the State for acquisition of right of way, when added to its real property credits, exceed the Local Government's matching share of the right of way obligation, there will be no refund to the Local Government of any portion of its contributed money.

5. Amendments

Amendments to this agreement due to changes in the character of the work, terms of the agreement, or responsibilities of the parties relating to the Project may be enacted through a mutually agreed upon, written supplemental agreement.

6. Notices

All notices to either party by the other required under this agreement shall be delivered personally or sent by certified or U.S. mail, postage prepaid, to the following addresses:

Local Government:	State:
<u>Bryan Bradford, City Manager</u>	Director of Right of Way Division
<u>City of Garland</u>	Texas Department of Transportation
<u>P.O. Box 469002</u>	125 E. 11 th Street
<u>Garland, TX 75046-9002</u>	Austin, Texas 78701

All notices shall be deemed given on the date delivered or deposited in the mail, unless otherwise provided by this agreement. Either party may change the above address by sending written notice of the change to the other party. Either party may request in writing that notices shall be delivered personally or by certified U.S. mail and that request shall be honored and carried out by the other party.

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7. Remedies

This agreement shall not be considered as specifying the exclusive remedy for any agreement default, but all remedies existing at law and in equity may be availed of by either party to this agreement and shall be cumulative.

8. Legal Construction

If one or more of the provisions contained in this agreement shall for any reason be held invalid, illegal, or unenforceable in any respect, that invalidity, illegality, or unenforceability shall not affect any other provisions and this agreement shall be construed as if it did not contain the invalid, illegal, or unenforceable provision.

9. Responsibilities of the Parties

The State and the Local Government agree that neither party is an agent, servant, or employee of the other party and each party agrees it is responsible for its individual acts and deeds as well as the acts and deeds of its contractors, employees, representatives, and agents.

10. Compliance with Laws

The parties shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts or administrative bodies or tribunals in any manner affecting the performance of this agreement. When required, the Local Government shall furnish the State with satisfactory proof of this compliance.

11. Sole Agreement

This agreement constitutes the sole and only agreement between the parties and supersedes any prior understandings or written or oral agreements respecting the subject matter of this agreement.

12. Ownership of Documents

Upon completion or termination of this agreement, all documents prepared by the State shall remain the property of the State. All data prepared under this agreement shall be made available to the State without restriction or limitation on their further use. All documents produced or approved or otherwise created by the Local Government shall be transmitted to the State in the form of photocopy reproduction on a monthly basis as required by the State. The originals shall remain the property of the Local Government. At the request of the State, the Local Government shall submit any information required by the State in the format directed by the State.

13. Inspection of Books and Records

The Local Government shall maintain all books, papers, accounting records and other documentation relating to costs incurred under this agreement and shall make such materials available to the State and, if federally funded, the Federal Highway

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Administration (FHWA) or their duly authorized representatives for review and inspection at its office during the contract period and for four (4) years from the date of completion of work defined under this agreement or until any impending litigation, or claims are resolved. Additionally, the State and FHWA and their duly authorized representatives shall have access to all the governmental records that are directly applicable to this agreement for the purpose of making audits, examinations, excerpts, and transcriptions.

14. State Auditor

The state auditor may conduct an audit or investigation of any entity receiving funds from the State directly under this agreement or indirectly through a subcontract under this agreement. Acceptance of funds directly under this agreement or indirectly through a subcontract under this agreement acts as acceptance of the authority of the state auditor, under the direction of the legislative audit committee, to conduct an audit or investigation in connection with those funds. An entity that is the subject of an audit or investigation must provide the state auditor with access to any information the state auditor considers relevant to the investigation or audit.

15. Procurement and Property Management Standards

The parties shall adhere to the procurement standards established in Title 49 CFR §18.36 and with the property management standard established in Title 49 CFR §18.32.

16. Civil Rights Compliance

The parties to this agreement shall comply with the regulations of the U.S. Department of Transportation as they relate to nondiscrimination (49 CFR Part 21 and 23 CFR Part 200), and Executive Order 11246 titled "Equal Employment Opportunity," as amended by Executive Order 11375 and supplemented in the Department of Labor Regulations (41 CFR Part 60).

17. Applicability of Federal Provisions

Articles 18 through 23 only apply if Federal funding is used in the acquisition of right of way or the adjustment of utilities.

18. Office of Management and Budget (OMB) Cost Principles

In order to be reimbursed with federal funds, the parties shall comply with the Cost Principles established in OMB Circular A-87 that specify that all reimbursed costs are allowable, reasonable, and allocable to the Project.

19. Disadvantaged Business Enterprise (DBE) Program Requirements

- A. The parties shall comply with the DBE Program requirements established in 49 CFR Part 26.
- B. The Local Government shall adopt, in its totality, the State's federally approved DBE program.

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- C. The Local Government shall set an appropriate DBE goal consistent with the State's DBE guidelines and in consideration of the local market, project size, and nature of the goods or services to be acquired. The Local Government shall have final decision-making authority regarding the DBE goal and shall be responsible for documenting its actions.
- D. The Local Government shall follow all other parts of the State's DBE program referenced in TxDOT Form 2395, Memorandum of Understanding Regarding the Adoption of the Texas Department of Transportation's Federally -Approved Disadvantaged Business Enterprise by Entity and attachments found at web address http://txdot.gov/business/business_outreach/mou.htm.
- E. The Local Government shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of any U.S. Department of Transportation (DOT)-assisted contract or in the administration of its DBE program or the requirements of 49 CFR Part 26. The Local Government shall take all necessary and reasonable steps under 49 CFR Part 26 to ensure non-discrimination in award and administration of DOT-assisted contracts. The State's DBE program, as required by 49 CFR Part 26 and as approved by DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as a violation of this agreement. Upon notification to the Local Government of its failure to carry out its approved program, the State may impose sanctions as provided for under 49 CFR Part 26 and may, in appropriate cases, refer the matter for enforcement under 18 USC 1001 and the Program Fraud Civil Remedies Act of 1986 (31 USC 3801 et seq.).
- F. Each contract the Local Government signs with a contractor (and each subcontract the prime contractor signs with a sub-contractor) must include the following assurance: *The contractor, sub-recipient, or sub-contractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this agreement, which may result in the termination of this agreement or such other remedy as the recipient deems appropriate.*

20. Debarment Certification

The parties are prohibited from making any award at any tier to any party that is debarred or suspended or otherwise excluded from or ineligible for participation in Federal Assistance Programs under Executive Order 12549, "Debarment and Suspension." By executing this agreement, the Local Government certifies that it is not currently debarred, suspended, or otherwise excluded from or ineligible for participation in Federal Assistance Programs under Executive Order 12549 and further certifies that it will not do business with any party that is currently debarred, suspended, or otherwise excluded from or ineligible for participation in Federal Assistance Programs under Executive Order 12549. The parties to this contract shall require any party to a subcontract or purchase order awarded under this

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contract to certify its eligibility to receive federal funds and, when requested by the State, to furnish a copy of the certification.

21. Lobbying Certification

In executing this agreement, each signatory certifies to the best of that signatory's knowledge and belief, that:

- A. No federal appropriated funds have been paid or will be paid by or on behalf of the parties to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
- B. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with federal contracts, grants, loans, or cooperative agreements, the signatory for the Local Government shall complete and submit the Federal Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- C. The parties shall require that the language of this certification shall be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and all sub-recipients shall certify and disclose accordingly. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Title 31 USC §1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each failure.

22. Federal Funding Accountability and Transparency Act Requirements

- A. Any recipient of funds under this agreement agrees to comply with the Federal Funding Accountability and Transparency Act (FFATA) and implementing regulations at 2 CFR Part 170, including Appendix A. This agreement is subject to the following award terms: <http://www.gpo.gov/fdsys/pkg/FR-2010-09-14/pdf/2010-22705.pdf> and <http://www.gpo.gov/fdsys/pkg/FR-2010-09-14/pdf/2010-22706.pdf>.
- B. The Local Government agrees that it shall:
 - 1. Obtain and provide to the State a System for Award Management (SAM) number (Federal Acquisition Regulation, Part 4, Sub-part 4.11) if this award provides more than \$25,000 in Federal funding. The SAM number may be obtained by visiting the SAM website whose address is: <https://www.sam.gov/portal/public/SAM/>
 - 2. Obtain and provide to the State a Data Universal Numbering System (DUNS) number, a unique nine-character number that allows Federal government to track the

County Dallas
District Dallas
ROW CSJ # 0009-02-064
CCSJ # 0009-02-040
Federal Project #: _____
CFDA Title: Highway Planning & Construction
CFDA # 20.205
Federal Highway Administration
Not Research and Development

distribution of federal money. The DUNS may be requested free of charge for all businesses and entities required to do so by visiting the Dun & Bradstreet (D&B) on-line registration website <http://fedgov.dnb.com/webform>; and

3. Report the total compensation and names of its top five (5) executives to the State if:

- i. More than 80% of annual gross revenues are from the Federal government, and those revenues are greater than \$25,000,000; and
- ii. The compensation information is not already available through reporting to the U.S. Securities and Exchange Commission.

23. Single Audit Report

- A. The parties shall comply with the requirements of the Single Audit Act of 1984, P.L. 98-502, ensuring that the single audit report includes the coverage stipulated in OMB Circular A-133.
- B. If threshold expenditures of \$750,000 or more are met during the Local Government's fiscal year, the Local Government must submit a Single Audit Report and Management Letter (if applicable) to TxDOT's Audit Office, 125 E. 11th Street, Austin, TX 78701 or contact TxDOT's Audit Office at <http://txdot.gov/inside-tdot/office/audit/contact.html>
- C. If expenditures are less than \$750,000 during the Local Government's fiscal year, the Local Government must submit a statement to TxDOT's Audit Office as follows: "We did not meet the \$750,000 expenditure threshold and therefore, are not required to have a single audit performed for FY ____."
- D. For each year the project remains open for federal funding expenditures, the Local Government will be responsible for filing a report or statement as described above. The required annual filing shall extend throughout the life of the agreement, unless otherwise amended or the project has been formally closed out and no charges have been incurred within the current fiscal year.

24. Signatory Warranty

Each signatory warrants that the signatory has necessary authority to execute this agreement on behalf of the entity represented.

County Dallas
District Dallas
ROW CSJ # 0009-02-064
CCSJ # 0009-02-040
Federal Project #: _____
CFDA Title: Highway Planning & Construction
CFDA # 20.205
Federal Highway Administration
Not Research and Development

THIS AGREEMENT IS EXECUTED by the State and the Local Government in duplicate.

THE LOCAL GOVERNMENT

Signature

Typed or Printed Name

Title

Date

THE STATE OF TEXAS

Gus E. Cannon, CTCM
Director, Right of Way Division
Texas Department of Transportation

Date

County Dallas
District Dallas
ROW CSJ # 0009-02-064
CCSJ # 0009-02-040
Federal Project #: _____
CFDA Title: Highway Planning & Construction
CFDA # 20.205
Federal Highway Administration
Not Research and Development

**ATTACHMENT A
RESOLUTION OR ORDINANCE**

County Dallas
District Dallas
ROW CSJ # 0009-02-064
CCSJ # 0009-02-040
Federal Project #: _____
CFDA Title: Highway Planning & Construction
CFDA # 20.205
Federal Highway Administration
Not Research and Development

ATTACHMENT B
LOCATION MAP SHOWING PROJECT

County Dallas
District Dallas
ROW CSJ # 0009-02-064
CCSJ # 0009-02-040
Federal Project #: _____
CFDA Title: Highway Planning & Construction
CFDA # 20.205
Federal Highway Administration
Not Research and Development

ATTACHMENT C
PROJECT BUDGET ESTIMATE AND PAYMENT SCHEDULE

County Dallas
 District Dallas
 ROW CSJ # 0009-02-064
 CCSJ # 0009-02-040
 Federal Project #
 CFDA Title: Highway Planning
Construction
 FHWA CFDA # 20.205
 Federal Highway Administration
 Not Research and Development

**Standard Agreement to Contribute
 State Performs Work
 Real Property in Lieu of Monetary Payment
 Attachment C**

Description	Total Estimated Cost	State Participation		Local Participation	
		%	Cost	%	Cost
Right of Way Acquisition	\$ 862,701.00	90%	\$ 776,430.90	10%	\$ 86,270.10
Reimbursable Utility Adjustments	\$ 300,000.00	90%	\$ 270,000.00	10%	\$ 30,000.00
Joint Bid Reimbursable Utility Adjustments	\$0	0%	\$0	0%	\$0
	\$0	0%	\$0	0%	\$0
TOTAL	\$1,162,701.00	90%	\$1,046,430.90	10%	\$116,270.10

Except as otherwise provided in the Agreement, the fixed amount of Local Government participation will be that amount provided above.

Real Property in Lieu of Monetary Payment in the amount of \$116,270.10, the Local Government will convey title to 0.38 acres (Parcel Number(s) 9 & 12) at an appraised value of \$133,375.00. **The local government, upon receipt of this executed agreement, will transfer the recorded deed with insurable title to the State. The instruments should be identified by the project ROW CSJ number with the parcel(s) number and forwarded to the Right of Way Division for filing.**



GARLAND POLICY REPORT

City Council Work Session Agenda

2.g.

Meeting Date: September 5, 2017

Item Title: 2017 Homeland Security Grant Program Application Resolution

Submitted By: Kwa heri Harris, Emergency Management Coordinator

Council Goal: Safe, Family-Friendly Neighborhoods

ISSUE

The Department of Homeland Security Grant Program (HSGP) is managed, at the state level, by the Office of the Governor (OOG). One of the requirements mandated by OOG, in order to receive HSGP funding, is jurisdictions applying for HSGP funding must have a Council-approved resolution each year prior to receiving awarded funds.

OPTIONS

1. Approve a resolution to support the 2017 Homeland Security Grant Program (HSGP) Application.
2. Take no action.

RECOMMENDATION

The Office of Emergency Management (OEM) staff recommends support of the HSGP application to gain access to grant funding. The resolution will assist the City of Garland with acquiring funding to help support public safety and to maintain eligibility for Homeland Security Grant Funding in the future. This funding will be used to purchase resources that will support the Garland Special Weapons and Tactical (SWAT) Teams, including 54 Ballistic Plates (Body Armor), 2 Ballistic Blankets (SWAT currently has none), 8 pairs of helmet-mounted vision goggles, and 30 Tactical Communications and Hearing Protection Devices. The funding will also support the Garland Explosive Ordinance Disposal (EOD) Bomb Unit by providing an upgraded portable X-Ray. Finally, the funding will support OEM by continuing to fund staff positions, one full-time and one part-time, responsible for emergency operations planning sustainment. The City of Garland Comprehensive Emergency Management Plan (CEMP) must be maintained at an Advanced Level, as determined by the State of Texas, in order to qualify for Homeland Security Grant Funding. Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 19, 2017, Regular Meeting.

BACKGROUND

The primary purpose of the Department of Homeland Security's (DHS)/Federal Emergency Management Agency's (FEMA) Homeland Security Grant Program (HSGP) is to provide funding to states, territories, urban areas, and other local and tribal governments to prevent, protect against, mitigate, respond to, and recover from potential terrorist attacks and other hazards. HSGP plays an important role in the implementation of the National Preparedness System by supporting the building, sustainment and delivery of core capabilities essential to achieving the National Preparedness Goal (The Goal) of a secure and resilient Nation. Among the five noted mission areas -- Prevention, Protection, Mitigation, Response, and Recovery -- HSGP supports the goal to Strengthen National Preparedness and Resilience.

The City of Garland qualifies for two grant programs under HSGP, State Homeland Security Program (SHSP) and the Urban Area Security Initiative (UASI). The SHSP program supports state, tribal and local preparedness activities that address high-priority preparedness gaps across all core capabilities and mission areas that support terrorism preparedness. All supported investments are based on capability targets identified during the Threat and Hazard Identification and Risk Assessment (THIRA) process and gaps identified in the State Preparedness Report (SPR).

The UASI program funds address the unique risk-driven and capabilities-based planning, organization, equipment, training, and exercise needs of high-threat, high-density Urban Areas based on the capabilities identified during the THIRA process and associated assessment efforts. The funds also assist them in building an enhanced and sustainable capacity to prevent, protect against, mitigate, respond to, and recover from acts of terrorism.

DHS/FEMA is required to ensure that at least 25 percent (25%) of the combined HSGP funds allocated under SHSP and UASI are dedicated towards law enforcement terrorism prevention activities, per Section 2006 of the Homeland Security Act of 2002, as amended (6 U.S.C. 607). This requirement is met by mandating all SHSP and UASI recipients to ensure that at least 25% of the combined HSGP funds allocated under SHSP and UASI are dedicated towards Law Enforcement Terrorism Prevention Activities (LETPA). Activities eligible for use of law enforcement- focused funds are outlined in the National Prevention Framework.

The Garland Office of Emergency Management has been awarded HSGP grant funding for six projects:

1. SWAT Ballistic Plates - Body Armor (\$23,000.00): This is a UASI grant project that will equip the Garland SWAT team with 54 armored plates that will provide team members more effective protection and allow them flexibility in responding to terrorist and Chemical, Biological, Radiological, Nuclear and Explosives (CBRNE) incidents.
2. SWAT Communications Enhancement (\$16,050.00): This is a UASI grant project that will support more secure communications, enhance operator survivability because of the hearing protection, allow the ability to hear ambient sounds much better, and enhance the Garland SWAT team's ability to function more effectively during a complex coordinated terrorist-style attack or CBRNE environment.
3. SWAT Night Vision (\$28,400.00): This is a regional SHSP project that will assist in building and sustaining SWAT teams throughout the region. Garland SWAT was selected at the North Central Texas Council of Governments (NCTCOG) level to receive funding for eight pairs of helmet-mounted night vision goggles. This equipment will enhance night vision capabilities during hostage rescue and Chemical, Biological, Radiological, Nuclear and Explosives (CBRNE) responses.

4. SWAT Ballistic Blankets (\$3,000.00): This is a regional SHSP project that will assist in building and sustaining SWAT teams throughout the region. Garland SWAT was selected at the North Central Texas Council of Governments (NCTCOG) level to receive funding for two ballistic blankets which will provide a new capability for the Garland SWAT team. This project will provide the team additional protection from small arms and shrapnel from improvised devices used in complex terrorist attacks, hostage rescue situations, and active shooter incidents.
5. EOD (Bomb Unit) Portable X-Ray (\$4,526.00): This is a UASI grant project that will augment and support the Tactical Bomb Technician program as well as the Bomb Unit as a whole, allowing a single operator to move downrange and begin sustained recognition analysis and render safe capability without returning to the support vehicle until operations are complete.
6. OEM Planning Sustainment (\$108,086.83): This is a UASI project that will allow the City of Garland to sustain and continue to work on emergency operations planning projects by continuing funding of the salary and benefits of one full-time and part-time staff member in the Office of Emergency Management for 12 months. The current planning program is designed to work within and follow a master planning submission schedule that was previously developed in order to keep all plans current, which is required by the State in order to qualify for Homeland Security Grant funds. This year's projects will include the implementation of the Volunteer & Donations Management annex and the redevelopment of the Recovery annex. Other plans slated to be completed are: Damage Assessments, Human Services, and Shelter and Mass Care.

CONSIDERATION

2017 Homeland Security Grant Program (HSGP) Application Resolution

Attachments

HSGP Resolution

RESOLUTION NO. _____

A RESOLUTION AUTHORIZING THE SUBMISSION OF A GRANT APPLICATION TO THE OFFICE OF THE GOVERNOR OF THE STATE OF TEXAS FOR CERTAIN PUBLIC SAFETY, LAW ENFORCEMENT, AND HOMELAND SECURITY PROJECTS; AND PROVIDING AN EFFECTIVE DATE

WHEREAS, the City Council finds it in the best interests of the citizens of Garland that the following projects be operated for the Fiscal Year of 2017 - 2018: 2017 Urban Area Security Initiative (UASI) and 2017 State Homeland Security Program (SHSP), both projects include Law Enforcement Terrorism Prevention Activities (LETPA). 2017 UASI Garland Emergency Management Planning Sustainment, 2017 UASI Garland SWAT Personal Protective Equipment (PPE) Enhancement (LETPA), 2017 UASI Garland EOD X-Ray System (LETPA), 2017 UASI Garland SWAT Communications Enhancements (LETPA), 2017 SHSP Garland SWAT Ballistic Blankets (LETPA) and 2017 SHSP Garland SWAT Night Vision (LETPA); and

WHEREAS, the City Council agrees that in the event of loss or misuse of the Office of the Governor funds, the City assures that the funds will be returned to the Office of the Governor in full;

WHEREAS, the City Council designates Kwa heri Harris/Director of the Garland Office of Emergency Management as the grantee's authorized official. The authorized official is given the power to apply for, accept, reject, alter or terminate the grant on behalf of the applicant agency.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GARLAND, TEXAS THAT:

Section 1

The City Council approves the submission of a grant application (whether one or more) for the following projects to the Office of the Governor: 2017 Urban Area Security Initiative (UASI) and 2017 State Homeland Security Program (SHSP), both projects include Law Enforcement Terrorism Prevention Activities (LETPA). 2017 UASI - Garland - Emergency Management Planning Sustainment, 2017 - UASI - Garland - SWAT Personal Protective Equipment (PPE) Enhancement (LETPA), 2017- UASI - Garland - EOD X-Ray System (LETPA), 2017 - UASI - Garland - SWAT Communications Enhancements (LETPA), 2017 SHSP -Garland - SWAT Ballistic

Blankets (LETPA) and 2017 SHSP - Garland-SWAT Night Vision (LETPA)

Section 2

The City Council hereby designates the Emergency Management Coordinator as the City's authorized official to act in all matters relating to the foregoing grant application(s) and that authorized official is hereby given the power to apply for, accept, reject, alter or terminate the grant on behalf of the City.

Section 3

That this Resolution shall be and become effective immediately upon and after its adoption and approval.

PASSED AND APPROVED this the ____ day of _____, 2016.

CITY OF GARLAND, TEXAS

Mayor

ATTEST:

City Secretary

Grant Numbers:

2982303
3157002
3315301
3324701
3421101
3421301



GARLAND POLICY REPORT

City Council Work Session Agenda

2.h.

Meeting Date: September 5, 2017

Item Title: Updated COG Hazard Mitigation Action Plan Adoption

Submitted By: Kwa heri Harris, Emergency Management Coordinator

Council Goal: Safe, Family-Friendly Neighborhoods

ISSUE

It is requested that Council consider adoption of the City of Garland updated Hazard Mitigation Action Plan. This plan was developed to implement hazard mitigation activities that will result in a more sustainable community by saving lives and properties from disaster situations. This plan will also allow the City of Garland to become eligible for grant funded mitigation projects that are not currently available.

OPTIONS

1. Adopt the Hazard Mitigation Action Plan.
2. Reject the Hazard Mitigation Action Plan.

RECOMMENDATION

Staff recommends "Option 1," adopting the City of Garland Hazard Mitigation Action Plan.

Unless otherwise directed by Council, this item will be scheduled for formal consideration at the September 19, 2017 Regular Meeting.

BACKGROUND

The City of Garland Hazard Mitigation Action Plan (HazMAP) is designed to meet the planning requirements set forth by the Texas Division of Emergency Management (TDEM), and the planning requirements set forth by the Federal Emergency Management Agency (FEMA). Local governments are required to develop a hazard mitigation action plan as a condition for receiving certain types of non-emergency disaster assistance, including funding for mitigation projects.

The Robert T. Stafford Disaster Relief and Emergency Assistance Act (Public Law 93-288), as amended by the Disaster Mitigation Act (DMA) of 2000, provides the legal basis for state, local, and tribal governments to undertake a risk-based approach to reduce risks from hazards through mitigation planning. The requirements and procedures for State, Tribal and Local Mitigation Actions Plans are found in the Code of Federal Regulations (CFR) at Title 44, Chapter 1, Part 201 (44 CFR Part 201). Appendix A is reserved for the City Council Resolution, formally adopting the City of Garland Hazard Mitigation Action Plan.

The City of Garland Hazard Mitigation Action Plan is divided into nine sections. Each section is designed to address the planning requirements set forth by state and federal agencies tasked

with oversight of DMA 2000. The City of Garland Hazard Mitigation Action Plan sections are identified below:

- Section One describes the purpose and authority of the Hazard Mitigation Action Plan and its organization.
- Section Two provides a description of the planning process the City of Garland followed to prepare the Hazard Mitigation Action Plan.
- Section Three describes the profile of the City of Garland and is a helpful tool in understanding how to best mitigate local hazards.
- Section Four provides detail on the hazard identification analysis and risk assessment, and shows how the Risk Summary (Table 4.5) was developed and hazard ranking.
- Section Five contains the hazard profiles that pose the greatest risk to the City of Garland. Each hazard profile contains: the location, severity, previous occurrences, probability of future events, impacts and vulnerability of those hazards.
- Section Six outlines the City of Garland's mitigation strategy, goals and objectives, reports progress on previous mitigation actions and addresses prioritizing mitigation actions.
- Section Seven outlines mitigation actions for the identified hazards.
- Section Eight describes the plan maintenance process for how the plan will be monitored, evaluated, incorporated and updated.
- Section Nine is the Appendix which provides additional information referenced in the plan.

The City of Garland Hazard Mitigation Action Plan provides a better understanding to local officials and citizens on what hazards are present within the community, how those hazards might affect the community, and proposed strategies to minimize the risk of identified hazards.

The plan has been reviewed and approved by both the Federal Emergency Management Agency and Texas Division of Emergency Management, pending adoption by the local government.

CONSIDERATION

Adoption of the Hazard Mitigation Action Plan would make the City of Garland eligible to apply federal mitigation funding to prevent disasters within the local community.

Election not to adopt the Hazard Mitigation Action Plan would prevent the City of Garland from applying for grant funding for disaster mitigation projects.

Attachments

HAZMAP Resolution
Hazmap APA LTR

RESOLUTION NO. _____

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARLAND, TEXAS
ADOPTING THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) APPROVED
REVISED HAZARD MITIGATION ACTION PLAN**

WHEREAS, natural hazards in the City of Garland, Texas historically have caused significant disasters with losses of life and property; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 and the Federal Emergency Management Agency (FEMA) require communities to adopt a hazard mitigation action plan to be eligible for the full range of pre-disaster and post-disaster federal funding for mitigation purposes; and

WHEREAS, FEMA requires that communities update Hazard Mitigation Action Plans every five years in order to be eligible for the full range of pre-disaster federal funding for mitigation purposes; and

WHEREAS, the City of Garland has assessed the community's potential risks and hazards and is committed to planning for a sustainable community and reducing the long-term consequences of natural and man-caused hazards; and

WHEREAS, the City of Garland Hazard Mitigation Action Plan Update outlines a mitigation vision, goals and objectives; assess risk from a range of hazards; and identifies risk reduction strategies and actions for hazards that threaten the community.

WHEREAS, the City of Garland has received notification that the City's Hazard Mitigation Action Plan has been approved by the Federal Emergency Management Agency (FEMA) pending adoption.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GARLAND, TEXAS THAT:

I.

That the City Council hereby adopts the City of Garland Hazard Mitigation Action Plan.

II.

That this Resolution shall be and become effective immediately upon and after its adoption and approval.

PASSED AND APPROVED this the ____ day of _____, 2016.

CITY OF GARLAND, TEXAS

Mayor

ATTEST:

City Secretary



FEMA

August 14, 2017

Ms. Sandra Fulenwider
State of Texas
Texas Division of Emergency Management
P.O. Box 4087
Austin, TX 78773-0220

RE: Approvable Pending Adoption of the Garland, Texas Single Jurisdiction Hazard Mitigation Plan.

Dear Ms. Fulenwider:

This office has concluded its review of the referenced plan, in conformance with the Final Rule on Mitigation Planning (44 CFR Part 201.6). Formal approval of this plan is contingent upon the adoption by resolution by the participants on Enclosure A, as well as the receipt of a CD containing all components of this plan.

Adopting resolutions must be submitted to this agency for review and approval no later than one year from the date of this letter. Failure to submit these resolutions in a timely manner could lead to a required update of the plan prior to FEMA approval.

Once this final requirement has been met, a letter of official approval will be generated. The Local Hazard Mitigation Planning Tool, with the reviewer's comments has been enclosed to further assist the jurisdictions in complying with planning requirements.

If you have any questions, please contact Jamie Leigh Price, HM Community Planner, at (940) 898-5440.

Sincerely,

A handwritten signature in black ink, appearing to read "Ronald C. Wanhanen".

Ronald C. Wanhanen
Chief, Risk Analysis Branch

Enclosure
cc: Jeffrey Brewer, R6-MT-HM

Enclosure A

**Garland, Texas
Single Jurisdiction
Hazard Mitigation Plan Participants**

Attached is the list of approved participating governments included in the August 14, 2017 review of the referenced Hazard Mitigation plan.

Community Name	
1)	Garland city

Adoption Submittal (Final)

Region 6 recommends that all jurisdictions refrain from adopting a plan until it has received an Approvable Pending Adoption status from FEMA. Following the issuance of Approvable Pending Adoption letter, all participants are provided 1 year to adopt the plan and submit it through the State to FEMA. For multi-jurisdictional plans, multiple adoptions should be submitted as a complete package as outlined below.

All Plans must be submitted to the address contained in the header of these procedures; mark each submittal with Attn: Mitigation Planning. Each submittal must include:

1. State transmittal letter containing:
 - a. List of all participating jurisdictions.
 - b. Plan name, sub-grantee, FEMA funding source, grant or disaster number, and project number, as applicable.
 - c. Identification of plan developer (i.e. contractor, jurisdiction, planning commission, etc.)
2. CD or DVD of the revised final draft of the plan in MS Word or pdf format (hardcopies may be submitted at the States discretion) containing:
 - a. Labeled with the plan name as well as the State and date sent.
 - b. The final plan formatted as a single document.
 - c. Documentation demonstrating adoption by the participating jurisdictions seeking approval. (i.e. copies of signed resolutions, official meeting minutes, etc....)
 - d. Remove strikethroughs, highlights and all Track Changes must be accepted in the final plan.
3. Submittals which do not conform to the above requirements will be returned to the State for resubmission.

In addition to the CD/DVD the State may also submit the plan files via:

1. Floodmaps File eXchange (FFX) <https://www.floodmaps.fema.gov/ffx/>
2. Risk Management Directorate (RMD)SharePoint
<https://rmd.msc.fema.gov/Regions/VI/Mitigation%20Planning/Forms/AllItems.aspx>

Please forward an email addressed to the current HM Planning State Point of Contact or to the HM Planning Team Lead as notification that the electronic file has been submitted



HAZARD MITIGATION ACTION PLAN



GARLAND

For more information, visit our website at:

<http://www.garlandtx.gov/gov/lq/safety/emergency/default.asp>

Written comments should be forwarded to:

Office of Emergency Management

P.O. Box 469002

Garland, Texas 75040

oem@garlandtx.gov



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1. Introduction

Purpose

The City of Garland Hazard Mitigation Action Plan (HazMAP) is designed to meet the planning requirements set forth by the Texas Division of Emergency Management (TDEM), and the planning requirements set forth by the Federal Emergency Management Agency (FEMA). Local governments are required to develop a hazard mitigation plan as a condition for receiving certain types of non-emergency disaster assistance, including funding for mitigation projects. The Robert T. Stafford Disaster Relief and Emergency Assistance Act (Public Law 93-288), as amended by the Disaster Mitigation Act (DMA) of 2000, provides the legal basis for state, local, and tribal governments to undertake a risk-based approach to reduce risks from hazards through mitigation planning. The requirements and procedures for State, Tribal and Local Mitigation Plans are found in the Code of Federal Regulations (CFR) at Title 44, Chapter 1, Part 201 (44 CFR Part 201). Appendix A is reserved for the City Council Resolution, formally adopting the City of Garland Hazard Mitigation Action Plan.

Organization

The City of Garland Hazard Mitigation Action Plan is divided into nine sections. Each section is designed to address the planning requirements set forth by state and federal agencies tasked with oversight of DMA 2000. The City of Garland Hazard Mitigation Action Plan sections are identified below:

- Section One describes the purpose and authority of the Hazard Mitigation Action Plan and its organization.
- Section Two provides a description of the planning process the City of Garland followed to prepare the Hazard Mitigation Action Plan.
- Section Three describes the profile of the City of Garland and is a helpful tool in understanding how to best mitigate local hazards.
- Section Four provides detail on the hazard identification analysis and risk assessment, and shows how the Risk Summary (Table 4.5) was developed and hazard ranking.
- Section Five contains the hazard profiles that pose the greatest risk to the City of Garland. Each hazard profile contains: the location, severity, previous occurrences, probability of future events, impacts and vulnerability of those hazards.
- Section Six outlines the City of Garland's mitigation strategy, goals and objectives, reports progress on previous mitigation actions and addresses prioritizing mitigation actions.
- Section Seven outlines mitigation actions for the identified hazards.
- Section Eight describes the plan maintenance process for how the plan will be monitored, evaluated, incorporated and updated.
- Section Nine is the Appendix which provides additional information referenced in the plan.



2. Planning Process

The City of Garland Hazard Mitigation Action Plan was developed in accordance with Federal Emergency Management Agency (FEMA) and Texas Division of Emergency Management (TDEM) standards and regulations. The mitigation planning process followed established guidelines published by the FEMA. The Planning Process was divided into four (4) phases as depicted in Figure 2-1, below.

At the onset of the planning process, numerous organizations and interested parties were invited to participate in the HazMAP efforts. These partners included local, regional and state agencies, private residents, and community based associations. Involving a variety of planning partners helped ensure a strong foundation for the Hazard Mitigation Action Plan.

Meetings were held with the Hazard Mitigation Planning Team, where risks were assessed and mitigation goals and actions created. Many local and regional contacts were also important in the planning process by providing information to the Planning Team. Some of these contacts include the Garland Geographic Information Systems, Garland Fleet Services, Texas Department of Emergency Management Recovery Division and other regional personnel.

Figure 2.1. Mitigation Planning Process



Source: Federal Emergency Management Agency

Planning Team

During the first phase the Planning Team members were identified based on their expertise and authority to implement the mitigation actions that would be developed. The following are the members of the Hazard Mitigation Action Planning Team:

- *Garland Building Inspection, Building Official
- *Garland Chamber of Commerce, Vice President
- Garland Emergency Management Coordinator
- Garland Emergency Management Specialist
- Garland Emergency Management Specialist
- *Garland Engineering, Drainage and Development Engineer
- *Garland Environmental Health Manager
- Garland Facilities, Director
- Garland Fire Department, Assistant Fire Chief
- Garland Neighborhood Vitality, Administrator
- Garland Parks and Recreation, Services Manager
- Garland Police Department, Captain
- *Garland Power & Light, Chief Operation Officer
- Garland Public/Radio Amateur Civil Emergency Service (RACES)
- *Garland Water Department, Utilities Director

Kickoff and Subsequent Meetings

The kickoff meeting was held at the City of Garland Emergency Operations Center on September 12, 2016. This initial meeting was an opportunity to inform key department heads and Planning Team members about how the planning process pertained to their distinct roles and responsibilities. Progress of past mitigation activities were discussed, and the new hazard identification process began.

The Planning Team participated in additional meetings and did work outside of the group. The Planning Team performed the following activities: identified hazards, conducted risk assessments, ranked hazards, developed a public outreach strategy, planned implementation of mitigation actions, assisted in research and gathering information to include in the plan and participated in the draft plan review. The Team will also monitor progress of the new mitigation actions and will update the plan as needed. A summary of planning meetings are described in Table 2.2. Documentation of meetings are found in Appendix B.

Table 2.2. Meeting Summaries

Date	Purpose
September 12, 2016	Kickoff meeting Discussion about the purpose of mitigation and planning process Reviewed Previous Mitigation Goal Progress and Implementation Hazard Mitigation Survey Explained
October 10, 2016	Hazard Mitigation Survey Results = Identified Hazards Community Risk Assessment Explained
November 9, 2016	Public Outreach Strategy and Survey Questions Discussed Discussed potential mitigation strategies and Capabilities Assessment
January 12, 2017	Finalized Mitigation strategies

Mitigation Review and Development

The Planning Team developed the 2017-2022 mitigation strategy. During the initial kickoff meeting, the Planning Team gave progress reports on all of the mitigation actions listed in the 2012 Plan. After initial reports were given the Planning Team completed department updates with additional details regarding 2012 mitigation actions and information. Planning Team members reported accomplishments, obstacles, delays, and revisions of the 2012 mitigation actions and updated information, images, data and statistics that related to each mitigation action and other details of the plan. An example of such updates are located in Appendix C. Development of the mitigation actions for the 2017 HazMAP was ongoing throughout the planning process. An educational component was conducted at the November 9th, 2016 meeting to ensure Planning Team members were actively considering all mitigation actions for HazMAP. FEMA's (2013), document titled, *Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards* was used to further examine mitigation actions that the City of Garland could utilize. The City's Capital Improvement Plan and department budgets were also inspected to determine possible mitigation actions. Planning Team members identified proposed actions, hazard(s) addressed, costs and benefits, the responsible department(s), effects on new and existing structures, implementation schedules, and potential funding sources. Mitigation actions identified during the process were made available to the Planning Team for review. In addition, the draft Plan was made available for public review and comment on the City of Garland's website and partner site EngageGarlandTx.

Review of Existing Plans, Plan Integration and Implementation

A variety of existing studies, plans, reports, and technical information were reviewed as part of the planning process. Sources of the information included FEMA, TDEM, Dallas County Plans, City of Dallas Plans, and City of Garland's 2012 Hazard Mitigation Action (HazMap) Plan.

Other documents, including those from the National Oceanic and Atmospheric Administration (NOAA) that includes the National Climatic Data Center (NCDC), provided previous hazard occurrence data and descriptions of events in the area. Materials from FEMA and TDEM were reviewed for guidance on plan development requirements and utilized in the development of the Plan at all stages. The State of Texas Mitigation Plan, Dallas County HazMAP and City of Dallas Local Mitigation Action Plan, were reviewed in order to develop the initial hazards to address in early planning phases. Internally, the City of Garland's Capital Improvement Plan and Operating Budget were reviewed to identify what mitigating activities the City of Garland has currently budgeted to complete.

The annual budget review is an important tool in controlling and executing mitigation goals and objectives. It is this phase where identified mitigation actions may be funded. Each action has been assigned to a specific department that is responsible for tracking and implementing the mitigation actions contained in Section Seven. A funding source as well as an implementation time period has also been listed and may be used when departments begin that phase. The timeline will partially be directed by the City's comprehensive planning process, Capital Improvement Plan, budgetary constraints, and community needs.

Capabilities Assessment

The Planning Team identified current capabilities for completing and implementing hazard mitigation actions. Members ensured all planning/regulatory, administrative/technical, financial and educational capabilities were included in the document for all City of Garland departments. The City of Garland organizational chart (Figure 2.3) presents departments who have roles in the hazard mitigation process. The capabilities assessment describes policies, programs, resources, codes and ordinances to accomplish hazard mitigation through the listed departments.

Figure 2.3. City of Garland Organization Chart

Effective February 1, 2017

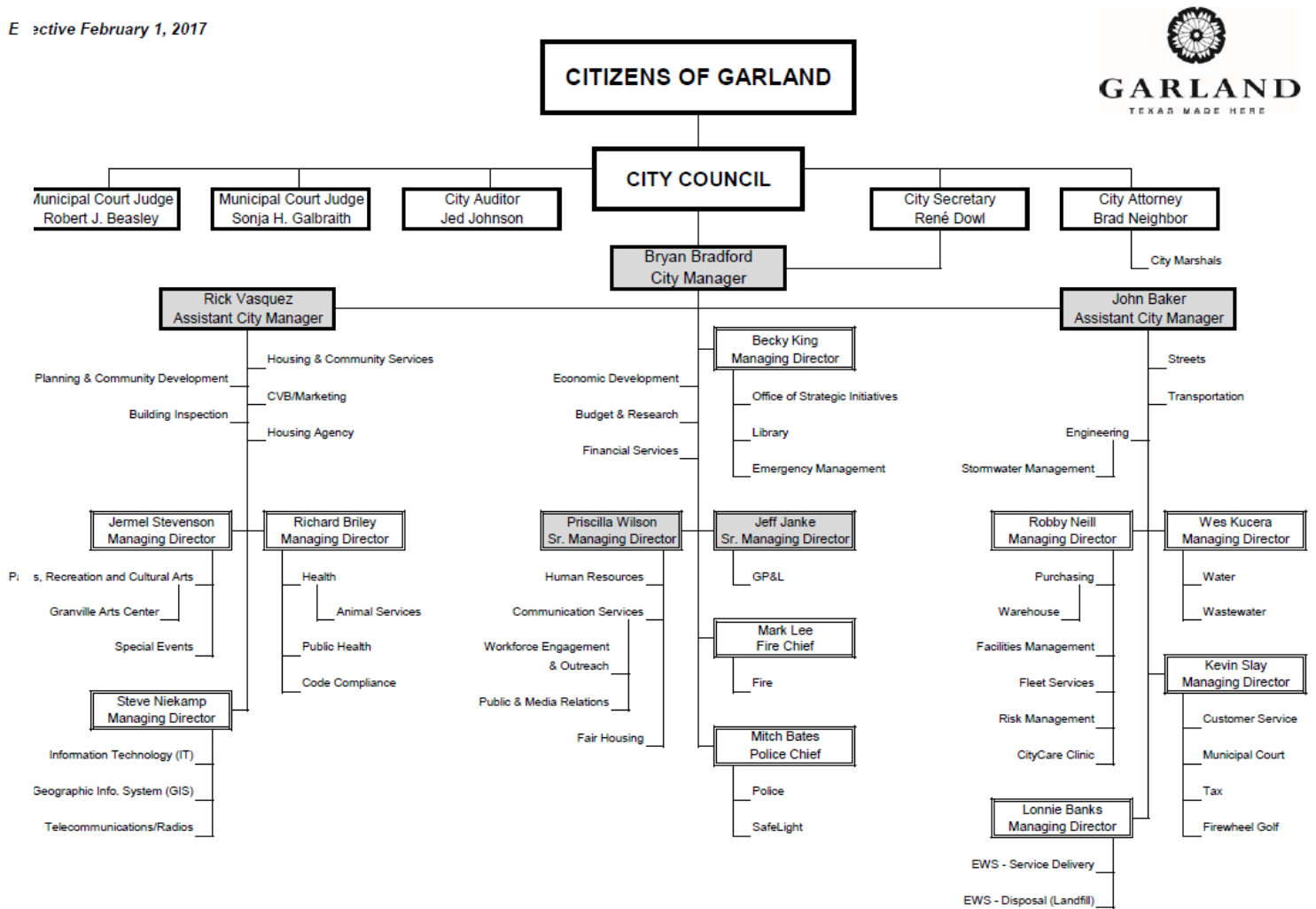


Table 2.4. Capabilities Assessment

Planning and regulatory capabilities are the plans, policies, codes and ordinances that prevent and reduce the impacts of hazards. The following table presents those capabilities that the City of Garland possesses.

Regulatory Tools (ordinances, codes, plans)	City of Garland	Additional Information
Comprehensive / Master Plan	X	2030 Envision Garland
Capital Improvements Plan	X	2016 CIP Plan Adopted
Economic Development Plans	X	Economic Development Department, 2030 Envision Garland, Garland Economic Development Partnership (GISED, City of Garland and Chamber of Commerce)
Local Emergency Operations Plans	X	Comprehensive Emergency Management Plan – advanced level
Continuity of Operations Plans	X	Citywide Comprehensive Continuity of Operations (COOP) Plan
Transportation Plan	X	Thoroughfare Plan, Comprehensive Corridor Plan SH- 78, Strategic Transportation Enhancement Plan (STEP)
Building Code	X	Adopted 2015 International Building Code
Fire Department ISO Rating	X	ISO Rating 1 – highest rating
Site Plan Review Requirements	X	Approved by the City Engineering Department as part of the Site Permit.
Zoning Ordinance	X	Comprehensive Zoning List 4647. Includes the zoning districts, land use permissibility, definitions, parking requirements, and development standards.
Subdivision Ordinance	X	Garland Development Code
Flood Insurance Rate Maps	X	Engineering: Floodplain and Drainage - FEMA has published Flood Insurance Rate Maps (FIRMs) graphically showing the extents of approximately 2,400 acres in the 100-year floodplain in Garland. Passive recreational and park uses are encouraged while encroachments and obstructions are prohibited.
Growth management ordinances	X	Garland Development Code
Drought Management	X	Water Conservation Plan, Drought Contingency Response Plan

Administrative and Technical capabilities include staff, their skills and tools that can be used for mitigation planning and to implement mitigation actions.

Staff /Personnel Resources	City of Garland	Additional Information
Planning Commission	X	Composed of 9 members appointed by the City Council. One member is appointed to represent each of the 8 Council districts, and 1 member is appointed at-large.
Mitigation Planning Committee	X	Fourteen department representatives, Garland resident and volunteer as well as the local Chamber of Commerce serve on the Planning Committee.
Mutual aid agreements	X	Dallas County mutual aid agreement, Interlocal agreements with Rowlett and Sachse.
Maintenance programs to reduce risk (tree trimming, clearing drainage systems)	X	Code Compliance: Single Family Rental Program (requires properties to be permitted), Code Cares (tree trimming, fence maintenance, trash/debris removal) GP&L: Annual tree trimming/vegetation management program
Planner(s) / engineer(s) with knowledge of land management practices	X	Planning & Community Development, Engineering, Stormwater
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	X	Code Compliance, Building Inspection, Engineering, Streets, Stormwater, Wastewater Treatment
Planners or Engineer(s) with an understanding of natural hazards	X	Engineering, GP&L, Office of Emergency Management, Risk Management, Stormwater
NFIP Participation	X	Engineering: Floodplain and Drainage – 100 year floodplains are near Duck Creek, Rowlett Creek, Spring Creek, and their tributaries. All new development projects are reviewed for compliance with the flood prevention ordinance.
Chief Building Official	X	Full Time - Building Inspection – Jim Olk
Emergency Manager	X	Full Time – Office of Emergency Management – Kwa heri Harris, Director and Barbara Neville, Sr. Specialist
Floodplain Administrator	X	Full Time – Engineering – Michael Polocek
Community Planner	X	Full Time – Planning & Community Development – Will Guerin
Drainage and Development Engineer	X	Full Time – Lyle Jenkins
Surveyors	X	Engineering - land surveying, easements, platting and right-of-way
Staff with education and experience to assess the community's vulnerability to hazards	X	Hazard Mitigation Planning Team, Building Inspection, Engineering, Office of Emergency Management, Stormwater
Personnel skilled in GIS	X	Information Technology: Geographic Information Services (GIS)
Scientists familiar with hazards of the community	X	Full Time - Epidemiologist – Don Hart National Weather Service
Warning Systems/Services	X	CodeRED, Sixteen Outdoor Warning Sirens

Expanding and Improving

The City of Garland is progressive and forward thinking when it comes to expanding and improving existing policies and programs for the wellbeing of the community. For example, Garland recently adopted the 2015 International Building Code requiring storm shelters in critical emergency operations facilities where such facilities in geographical areas where tornadoes are highest. New Federal regulations and best practices are adopted through various ordinances to strengthen current policies. The City Council and City Manager address the budget, policies, regulations and codes, hire staff, approve plans, and determine the direction of the city overall. Ability to implement and approve mitigation actions, expand existing mitigation actions, and integrate mitigation into existing policies and programs is function of this group. Additional positions will be considered for staffing the Office of Emergency of Management as there are currently gaps in local capacity regarding community preparedness education. Funding constraints make increased staffing a challenge.

Stakeholder and Public Involvement

Stakeholders provide an essential service in hazard mitigation planning; therefore, throughout the planning process, local government, members of community groups, and local businesses were invited to participate. The Chamber of Commerce business community, Garland Area Service Providers, a group of non-profits and aid organizations, the Community Leaders Group multicultural representatives, and the Multicultural Commission were all sent hazard mitigation information/surveys and encouraged to participate. In addition to the public outreach campaign, the City of Garland sought input on the HazMAP from its neighboring jurisdictions, county emergency management office, and regional Council of Government. The table below lists the individuals contacted and method of contact. All input received was implemented into the plan. Many stakeholders also participated as members of the Planning Team. Those members contacted through email are denoted with an asterisk next to their title in the Planning Team section above.

Organization	Name-Title	Method of Contact
City of Richardson	Misti Gardner Emergency Management Coordinator	Email
City of Mesquite	Cindy Carlo Emergency Management Coordinator	Email
City of Plano	Carrie Little Emergency Management Coordinator	Email
Dallas County	Doug Bass Hazard Mitigation Specialist	Email
City of Dallas	Kevin Oden Assistant Emergency Management Coordinator	Email
North Central Texas Council of Governments	Molly McFadden Emergency Preparedness Director	Email

Input from individual residents and the community as a whole provided the Planning Team with a greater understanding of local concerns, and increases the likelihood of successfully implementing mitigation actions. The City of Garland incorporated several methods to actively engage the public throughout the planning process, prior to official Plan approval and adoption. These methods included two public surveys, posting information to the city's website, designated point of contact for HazMap questions and comments, the opportunity for public review and comment and inclusion of the general public on the Planning Team.

On January 16, 2017, the Office of Emergency Management placed a survey link on the City's website requesting public input. The survey was circulated to a wide audience through many channels that included:

- Distribution of the survey and mitigation information electronically via City of Garland Facebook, Twitter, COGNOTES employee news, and Garland's Nextdoor social network. Residents were also able to access the survey at all four public libraries computers and could request a paper copy of the survey from the HazMAP point of contact.
- Fliers were distributed and posted in six recreation centers, four public libraries, and at customer service sites within the City of Garland. Customer service site locations include: Building Inspection, Public Health, CityCare Clinic, Parkland Health Center, Police Department, Municipal Courts, Customer Service, Animal Shelter and the Pawsibilities pet adoption center.

The survey solicited public feedback on the hazards residents felt had the greatest impact on Garland. Residents were asked to review the list of hazards identified by the City's Planning Team and rank those hazards in order of importance and of greatest impact. The survey was a total of 7 questions and was available in English, Spanish and Vietnamese. A total of 269 surveys were completed, the survey and results are included in Appendix E.

The purpose of the survey was to solicit public input during the planning process, confirm the Planning Teams findings with the public, and determine any other areas of concern. The survey results were reviewed and incorporated into the Plan and are also summarized in Table 4.5, Risk Summary. Because 64% of residents report being only "somewhat prepared" for a disaster and 16% "not prepared" (80% combined) several public education and awareness mitigation actions or components were added to the Plan.

During hazard analysis it was determined that the Public ranked hazards based on their personal capabilities and experiences while the Planning Team ranked hazards according to the City of Garland capabilities to respond to each hazard.

After the initial public survey results were analyzed the Office of Emergency Management further surveyed and interviewed residents regarding hazard ranking and the rationale behind their ranking decisions. These public conversations occurred at City of Garland Open Dialogue Forum held on March 3, 2017 and confirmed what the original survey had unveiled. The Public ranks hazards based on personal experiences not the community as a whole. Statements regarding ranking were made such as:

- “Some of these hazards have never impacted me.”
- “I lived in California and am used to earthquakes but not tornadoes.”
- “I worked in customer service so I know people are mad when they don't have power.”
- “We are in severe weather season right now.”

Closing this perception gap will require public education. Instructing individuals to see beyond themselves and understand the whole community concept of hazard mitigation will require much education.

Throughout the process of creating the Hazard Mitigation Action Plan updates were made to the City of Garland Office of Emergency Management website (www.garland-oem.com). The information posted on the website included:

- A definition of hazard mitigation
- An explanation of the planning process
- Why Garland needs a plan
- Hazards identified by the Planning Team
- Examples of mitigation actions
- Point of contact

The website also housed valuable information on the warning systems in the City of Garland to keep residents aware of hazards that may impact them.

The Plan was placed on the Office of Emergency Management website, EngageGarlandTx website and placed at the public libraries for public comment and review prior to plan adoption, on insert date. A point of contact was also provided for residents to send additional comments privately or at length.

Documentation of public outreach methods are found in Appendix C.

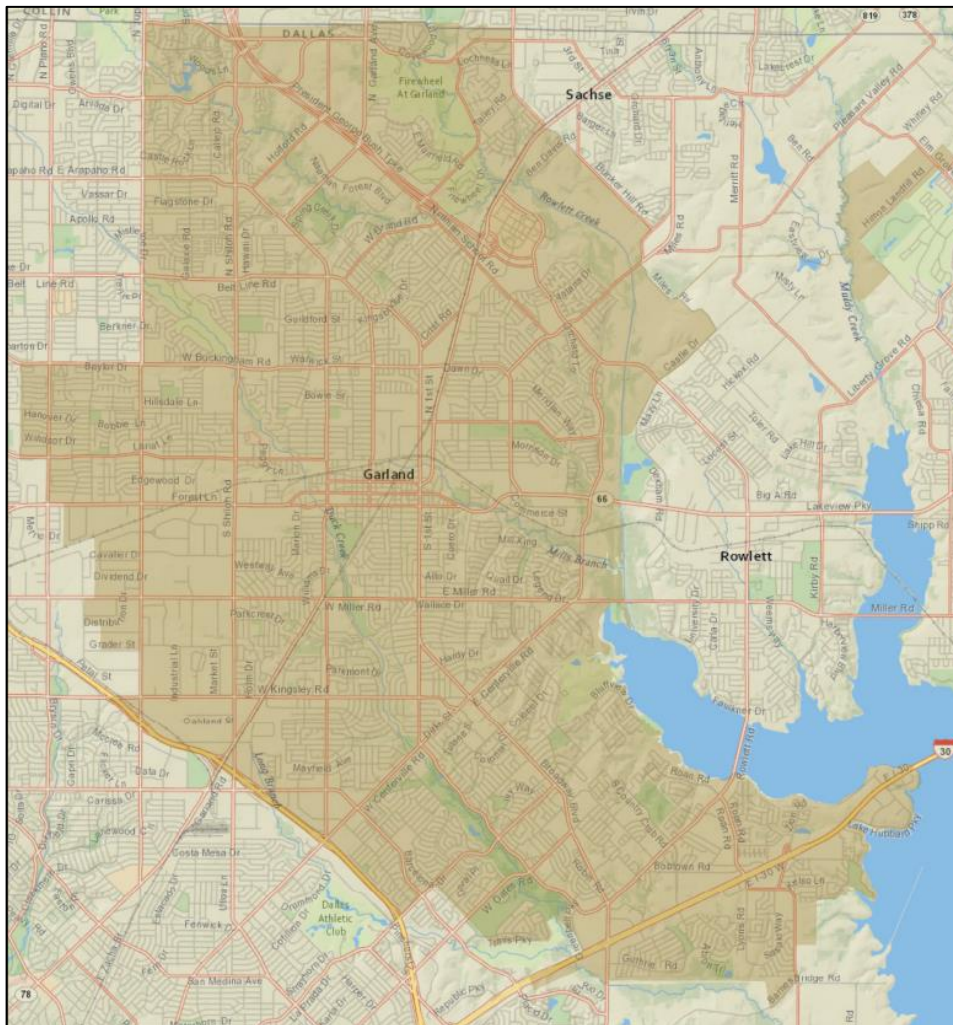


3. Community Profile

Planning Area

The planning area for the Hazard Mitigation Action Plan includes the City of Garland incorporated areas. The planning area is indicated by the darker tan shading in Figure 3.1. The City of Garland is primarily located in northeast Dallas County, although a small portion of the city extends into Collin County which is the landfill. Garland shares common boundaries with the City of Dallas, Richardson, Mesquite, Rowlett, Sachse, and Sunnyvale. The City of Garland covers a land area of 57.1 square miles, six percent of the total area of Dallas County.

Figure 3.1. City of Garland Incorporated Area



Source: City of Garland GIS Department, 2016

Population

The City of Garland, like many other Dallas-Fort Worth communities, continues to grow significantly. Much of Garland's population growth occurred during the 1960s, 1970s, and 1980s. Growth now has slowed due to undeveloped land becoming scarcer as Garland approaches buildout. The City of Garland is the second largest city in Dallas County, and is home to an estimated 236,897 residents. Table 3.2 represents the City of Garland's population change from 1980-2015.

Table 3.2. Population Change

Year	1980	1990	2000	2009	2015
Population	138,857	180,650	215,768	228,858	236,897

Source: Garland Planning & Community Development, 2015 U.S. Census Data Garland Profile

Community Features and Special Considerations

Building Stock

The Dallas County Appraisal District Estimated Values Report for the City of Garland will be used in order to establish an accurate inventory of the types of buildings within the City of Garland. Table 3.3 shows the amount of parcels, estimated market value, and taxable value for commercial property, business personal property, residential property, and the combined totals for all three separate categories.

**Table 3.3. Certified Estimated Values Report (EVR)
July 25, 2016 for tax year 2016**

Type of Building	Parcels	Market Value	Taxable Value
Commercial	4,698	\$ 4,549,594,430	\$ 3,529,696,76
Business Personal Property	5,751	\$ 2,062,673,650	\$ 1,665,191,893
Residential	64,199	\$ 8,807,329,810	\$ 7,137,745,537
Grand Total	74,648	\$ 15,419,597,890	\$ 12,332,634,195

Source: Dallas Central Appraisal District (DCAD)

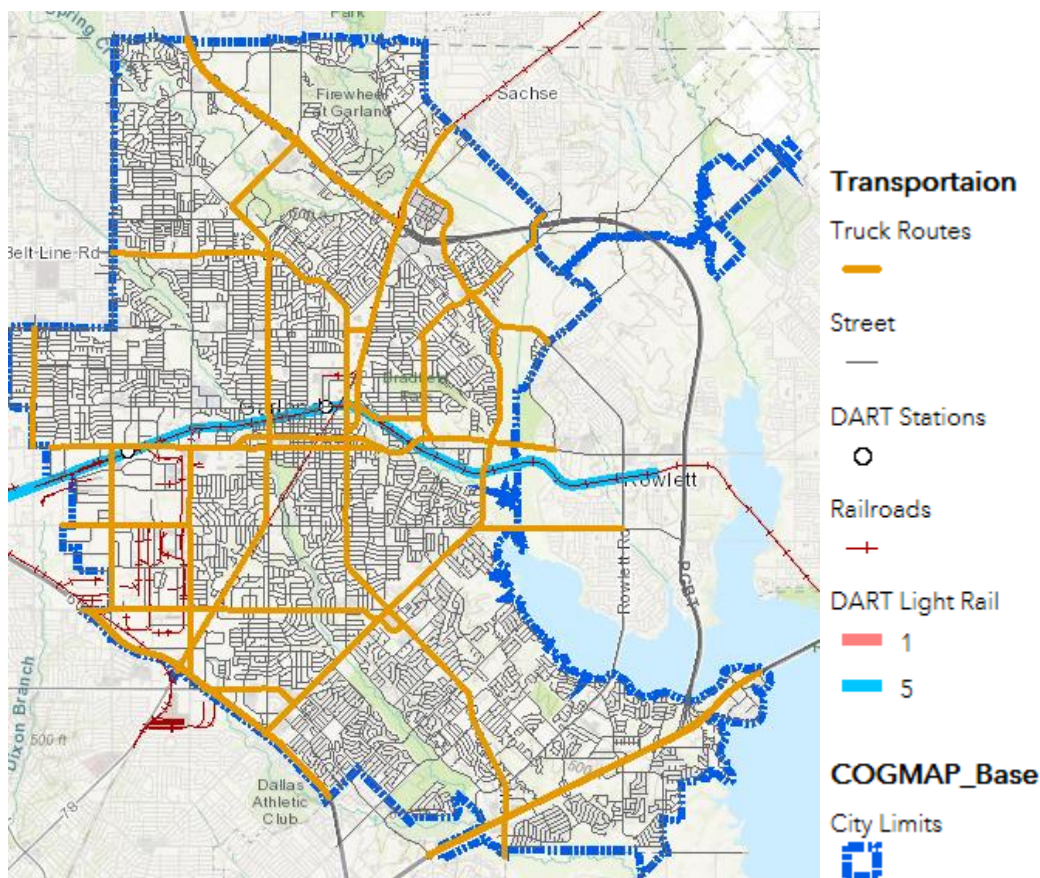
Transportation Systems

The City of Garland offers many transportation opportunities. Active transportation options include: the Dallas Area Rapid Transit (DART) light rail system, railroads, highways, and a heliport.

There are five highways and thoroughfares that serve the City of Garland: Lyndon Baines Johnson (LBJ) Freeway (IH-635), President George Bush Turnpike (SH 190), IH-30, State Highway 78 and State Highway 66. LBJ Freeway, IH-30, State Highway 66, and the President George Bush Turnpike run primarily east to west. State Highway 78 runs primarily north to south.

In addition to the highway routes that pass through the City, several major transportation arteries cross through the City. Figure 3.4 identifies the transportation routes and speed limits on those routes.

Figure 3.4. Transportation Routes

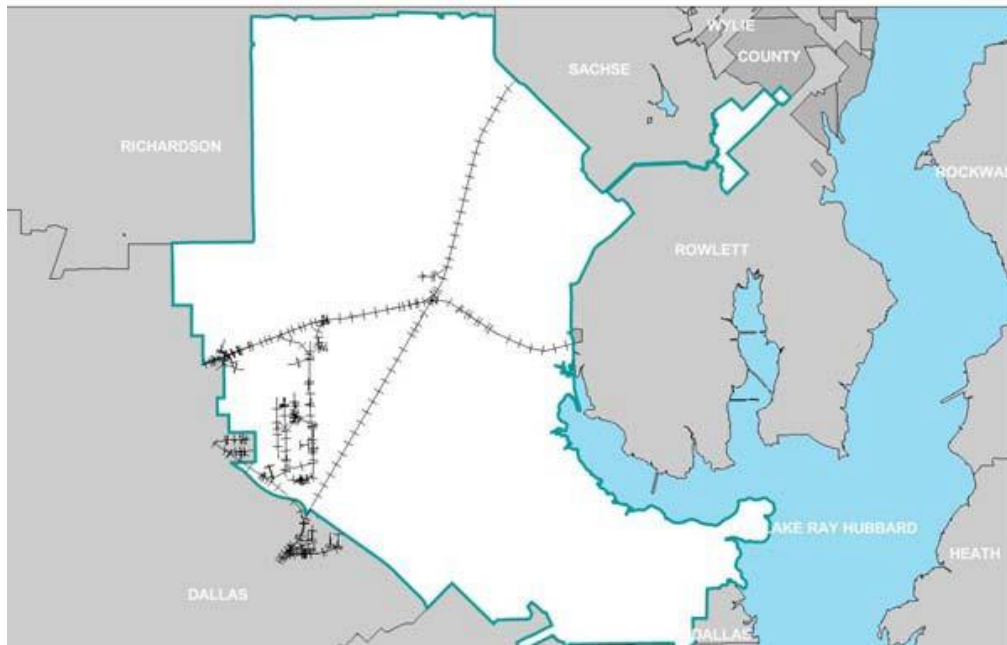


Source: Garland GIS

Two freight rail lines serve the City of Garland. Dallas Garland and Northeastern Railroad (DGNR) and Kansas City Southern Railroads pass through the city limits. Figure 3.5 depicts the rail systems in Garland.

The freight rail lines intersect with the DART passenger light rail system in central Garland. The DART light rail system is a public transportation system that links downtown Garland to the rest of the Dallas-Fort Worth area and extends east into Rowlett.

Figure 3.5. Railroads



Garland GIS

The City of Garland is also home to a heliport. The Garland Heliport is a public heliport located within the city limits. The Garland Heliport opened in 1989 and is owned by the City of Garland, which, since 1993, has contracted with Sky Helicopters to manage the facility. The heliport operates as both a commercial entity and flight school.

Lifeline Utility Systems

The City of Garland owns and operates two state-of-the-art advanced biological wastewater treatment facilities. Wastewater is collected for each facility in two separate drainage basins, the Duck Creek Basin and the Rowlett Creek Basin. Wastewater is then received and treated at two separate facilities, the Rowlett Creek and Duck Creek Wastewater Treatment Centers. The Duck Creek Treatment Plant receives wastewater from the west side of Garland, and from portions of the cities of Dallas, Richardson and the City of Sunnyvale. The Rowlett Creek Treatment Plant serves the east side of Garland including the cities of Rowlett and Sachse.

Since 1923, the City of Garland has been providing electric service to its residents through Garland Power & Light (GP&L), a locally owned and controlled not-for-profit municipal utility. With more than 69,000 customers, GP&L is the fourth largest municipal utility in Texas and the 42nd largest in the nation.

GP&L's diverse energy portfolio includes power from natural gas, coal, wind, solar and hydroelectric resources. The utility owns natural gas and hydroelectric generation facilities, and has power purchase contracts for coal, wind and solar energy.

GP&L's electric distribution system has 388 linear miles of overhead lines and 591 linear miles of underground lines. The transmission system consists of 28 substations and 200 linear miles of transmission lines. The utility's peak load for 2015 was 473 megawatts, with annual operating revenues of \$339 million.

The other 15% of Garland residents are served by Oncor, a transmission and distribution provider that serves much of north Texas.

Economic Elements

The labor force within the City of Garland stands at 126,151 according to the Texas Workforce Commission (10/2016). The unemployment rate for the City as of October 2016 is 3.5%. The Garland Independent School District is the largest employer within the City, employing 7,300. The top ten major employers are listed in Table 3.6.

Table 3.6. Top Ten Major Employers

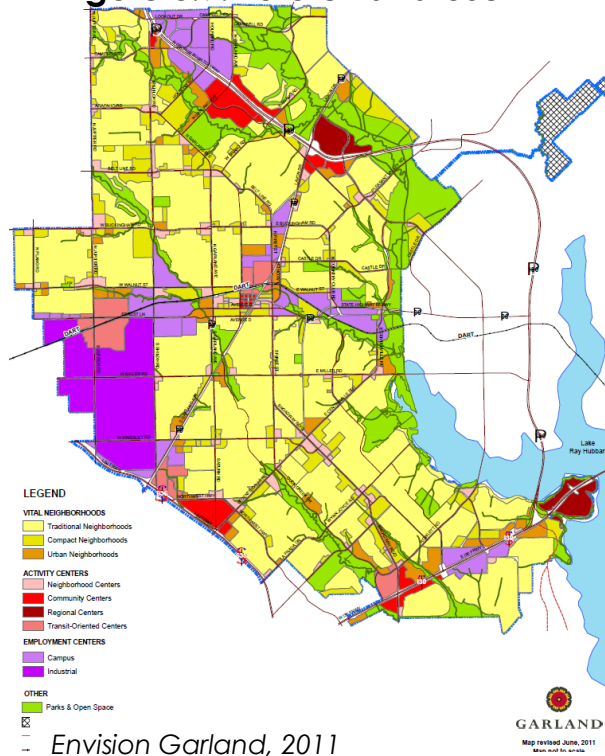
Garland Independent School District	7,300
City of Garland	2,000
Baylor Scott & White Medical Center - Garland	1,185
Kraft Foods	650
US Food Service	520
Hatco (Resistol)	401
L-3 Communications	400
Silver Line by Andersen	400
KARLEE	330
Atlas Copco	300

City of Garland Economic Development Partnership, Updated August 2016

Future Development Consideration

The City of Garland is legally required to have and maintain a comprehensive plan. Garland's first comprehensive plan was developed in the 1960s. A second plan was developed in the 1980s and was periodically updated. Envision Garland is the current comprehensive plan that addresses the community's future through 2030. This HazMAP has been extensively revised to reflect not only infrastructure and residence development which has been minimal but also reflects the changes in hazards that now greatly impact the City. No significant changes in development has occurred in the past five years in Garland. Therefor the vulnerability to all hazards is unchanged.

Figure 3.7. Future Land Use





4. Risk Overview

Hazard Identification and Analysis

This section begins the risk assessment. The purpose of this section is to provide background information for the hazard identification and risk analysis process. Section five provides a hazard profile for each of the Planning Team's identified hazards for the City of Garland. Each hazard profile includes a description of the hazard, location, severity, previous occurrences, probability of those hazards occurring in the future, impacts and summary of vulnerability to each hazard.

The City of Garland Planning Team initially reviewed the full range of natural hazards suggested under FEMA planning guidance. The team also considered the State of Texas Hazard Mitigation Plan identified hazards, Dallas Counties Hazard Mitigation Action Plan identified hazards, City of Dallas Local Mitigation Action Plan identified hazards and other neighboring jurisdiction's hazards and risk assessments. Based on this analysis and historical occurrences that have impacted Garland, the Team identified a total of 31 natural and human-caused hazards that pose risk to Garland, Texas. Those hazards are listed below.

Active Shooter

Aircraft Incident

Biological Event

Bomb Threat

Civil Disturbance

Communications Failure

Dam Failure

Drought

Earthquake

Erosion

Expansive Soil

Extreme Cold

Extreme Heat

Flood

Fuel Shortage

Hail

Hazardous Materials (Fixed and Transport)

Information Systems Failure

Lightning

Plant Explosion

Power Outages

Railroad Incidents

Severe Winter Weather

Sewer Failure

Subsidence

Terrorism

Tornado

VIP Situation

Water Failure

Wildfire

Wind

Those 31 potential hazards were included in the hazard assessment (Appendix F). The hazard assessment identified high risk hazards, provided justification for resources spent and ensured risk and mitigation actions aligned. Because the City of Garland has limited funding, the Planning Team prioritized the hazards that have the greatest risk and impact to the City. As additional funding becomes available the Planning Team will reassess the list of hazards. The Hazard Assessment used a formula that accounted for: Geographic Area Affected, Probability of Future Events in the Next Year, Possibility of Death or Injury, Interruption of Business Services, Preparedness, Response Time, and Effectiveness and Resources Available. Each member of the Planning Team completed a Hazard Assessment and assigned a percentage to all 31 previously identified hazards for each parameter to collectively determine the risk for each hazard for Garland. The results of the hazard assessment determined Garland's top hazards that were then further evaluated in the Community Risk and Impact Assessment.

Hazard Ranking

Listed are the ten natural hazards and four technological hazards that were identified from the result of the hazard assessment. These are the hazards that will be addressed in the Hazard Mitigation Action Plan. FEMA "recognizes that a comprehensive strategy to mitigate the nation's hazards cannot address natural hazards alone" and "that natural events can trigger technological disasters."¹ Technological hazards are distinct from natural hazards primarily in that they originate from human activity.

Tornado
Severe Winter Weather
Flood
Drought
Biological Event
Terrorism/Cyber Attacks
Extreme Heat

Power Outages
Earthquake
Communications Failure/ Infrastructure Failure
Severe Thunderstorms
Hail
Erosion
Expansive Soil

Each member of the Planning Team completed a Community Risk and Impact Assessment located in Appendix G. This assessment estimated the potential impact each hazard would have on specific areas of the community. These areas include: Geographic Scope, Duration, Health Effects, Displacement, Economic Impact, Environmental Impact, Built Environment, Transportation, Critical Services, Confidence in Government, Frequency and Cascading Effects.

¹ Source: Technological Hazards, FEMA

Two scenarios were considered during the Community Risk and Impact Assessment, the most likely/typical scenario of a hazard occurring and the maximum impact/worst case scenario of a hazard occurring. Definitions of the parameters were provided for each impact type and level. These definitions are also located in Appendix G.

- **A collective risk score was calculated using the Community Risk and Impact Assessment for each hazard based on the given definitions.** The higher the score the higher the collective risk to the City of Garland.
- **The Community Risk and Impact Assessment also assessed the Severity of Impact** each hazard may have on the City of Garland and further prioritized the hazards to develop relevant mitigation actions.
- **The Public Ranking** represented in the Risk Summary table was **derived from the results** of the **public survey** (Figure 4.1).
- A statistical approach was also used to analyze the identified hazards. **Data from the National Climatic Data Center (NCDC) was used in determining Frequency.** Occurrences divided by the number of years of reliable data. That number was then compared to the frequency definitions in Table 4.2.

The combined analysis is shown in the Hazard Risk Summary in Table 4.5 (Frequency, Severity of Impact, Risk Score, Planning Team Risk Ranking and Public Ranking)

Figure 4.1 Public Survey Question

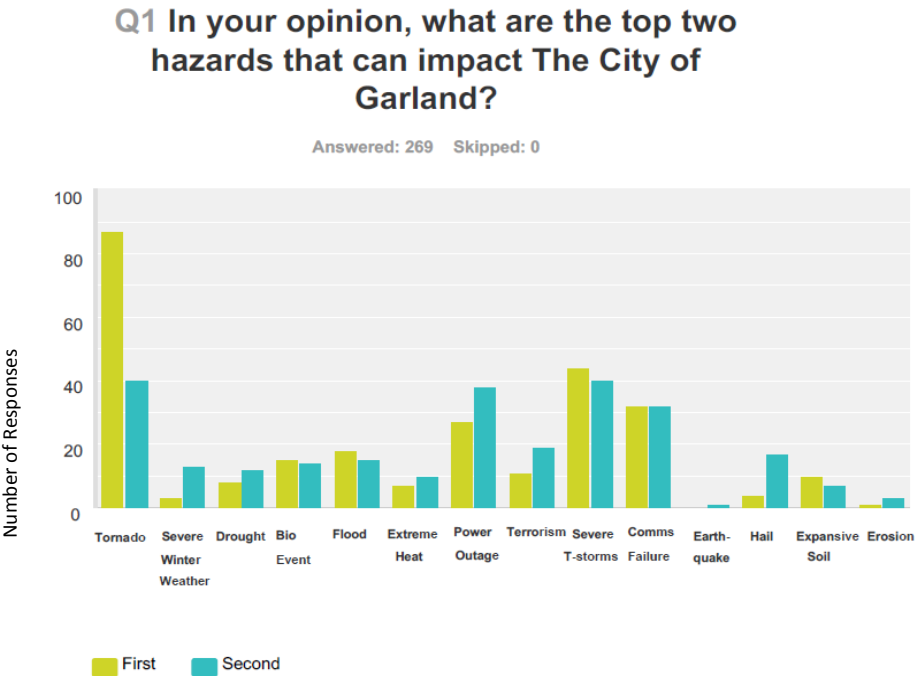


Table 4.2. Public Survey Hazard Ranking		Total
Tornado		127
Severe Thunderstorms (including wind)		84
Power Outage		65
Communications Failure (transmission lines, broadcast, satellites and/or utility capabilities)		64
Flood		33
Terrorism / Cyber Attacks		30
Biological Event (disease outbreak ex. H1N1, Smallpox)		29
Hail		21
Drought		20
Extreme Heat (Heat Index of 105 degrees or higher)		17
Expansive Soil (soils that expand when water is added, and shrink when they dry out)		17
Severe Winter Weather (snow, freezing rain, or sleet)		16
Erosion (gradual wearing away of land masses)		4
Earthquake		1

TABLE 4.3. Hazard Frequency Ranking

FREQUENCY	CALCULATION	PROBABILITY DEFINITION
Highly Likely	NCDC Data Calculations > .8 Or continuous hazards	Event is probable in the next year.
Likely	NCDC Data Calculations > .4	Event is probable in the next 3 years.
Occasional	Previous Occurrence	Event is probable in the next 6 years.
Unlikely	No unlikely hazards in HazMAP	Event is probable in the next 10 years.

	Table 4.4. SEVERITY of IMPACT
Substantial	Multiple deaths or Complete shutdown of critical facilities and services for 1 week or more or More than 50 percent of property or residents impacted
Major	Multiple Injuries and/or illnesses or Complete shutdown of critical facilities/services for at least 1 or more days but < a week or More than 25 percent of property or residents impacted
Minor	Injuries and/or illnesses do not result in permanent disability or Critical facilities and services modified or More than 10 percent of property or residents impacted
Limited	Injuries and/or illnesses that are treatable with first aid or; Minor quality of life lost or No shutdown of critical facilities and services Less than 5 percent of property or residents impacted

Table 4.5. Hazard Risk Summary

HAZARD	FREQUENCY/ YEAR	SEVERITY of IMPACT	RISK SCORE	RISK RANKING	PUBLIC RANKING
Tornado	highly likely	substantial	34.071	high	high
Severe Winter Weather	highly likely	substantial	31.224	high	low
Terrorism/Cyber Attacks	occasionally	substantial	30.871	high	moderate
Biological Event	likely	major	29.661	moderate	moderate
Flood	highly likely	major	27.822	moderate	moderate
Earthquake	likely	major	26.696	moderate	low
Severe Thunderstorms/ Wind	highly likely	minor	26.604	moderate	high
Communications Failure / Infrastructure Failure	occasionally	minor	25.898	moderate	high
Drought	likely	minor	25.827	moderate	moderate
Extreme Heat	highly likely	limited	24.676	low	low
Power Outages	highly likely	limited	24.022	low	high
Expansive Soil	highly likely	limited	21.918	low	low
Hail	highly likely	limited	21.765	low	moderate
Erosion	highly likely	limited	21.098	low	low

RISK SCORE (0-24.99) = LOW
PUBLIC RANKING (0-19) = LOW

RISK SCORE (25-29.99) = MODERATE
PUBLIC RANKING (20-60) = MODERATE

RISK SCORE (30-35) = HIGH
PUBLIC RANKING (61- 130) =HIGH

The following hazard profiles fall into two categories, natural and man-made/technological hazards. The hazards are addressed in order of ranking priority as shown above in Table 4.5 above.



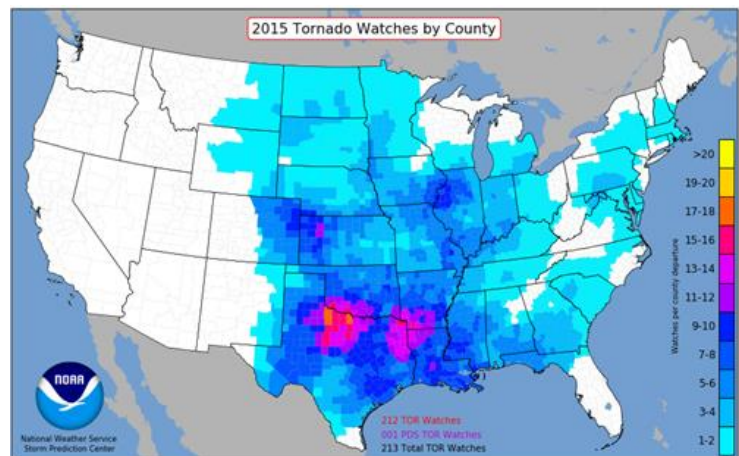
5. Hazard Profiles

Tornado

Hazard Description

A tornado is defined as a rapidly rotating vortex or funnel of air extending ground ward from a cumulonimbus cloud. Most of the time, vortices remain suspended in the atmosphere. Spawned from powerful thunderstorms, tornadoes can cause fatalities and devastate neighborhoods in seconds. A tornado appears as a rotating, funnel-shaped cloud that extends from a thunderstorm to the ground with winds that can reach 300 miles per hour. According to the National Weather Service, the City of Garland is issued an average of 9-10 tornado watches per year as depicted in Figure 5.1.

Figure 5.1. NOAA's Storm Prediction Center



Location

Due to the unpredictable nature of tornadoes, it is impossible to determine the exact area of future tornado occurrences. The entire planning area, the City of Garland, is equally vulnerable to tornadoes.

Severity

The severity of a tornado can be determined by the Enhanced Fujita Scale. The Enhanced Fujita Scale rates tornadoes within the United States by estimating the amount of damage they cause. Table 5.2 provides a better understanding of the possible magnitude of tornado events. The table correlates the Enhanced Fujita Rating with the wind speed and severity of damage tornadoes may cause. An EF 4 tornado has impacted Dallas county before and it is expected that an EF 5 will occur in Garland sometime in the future.

Figure 5.2. Enhanced Fujita Scale

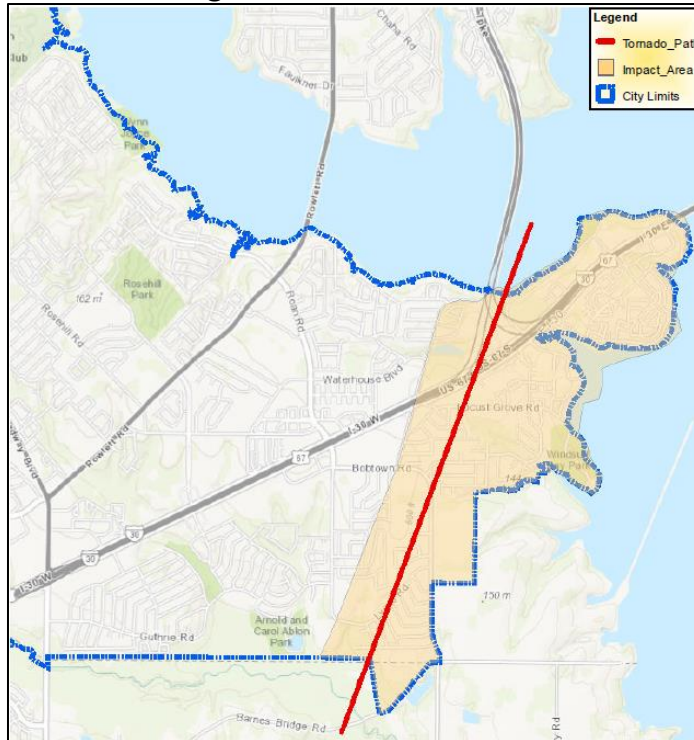
EF Rating	Wind Speeds	Expected Damage	
EF-0	65-85 mph	'Minor' damage: shingles blown off or parts of a roof peeled off, damage to gutters/siding, branches broken off trees, shallow rooted trees toppled.	
EF-1	86-110 mph	'Moderate' damage: more significant roof damage, windows broken, exterior doors damaged or lost, mobile homes overturned or badly damaged.	
EF-2	111-135 mph	'Considerable' damage: roofs torn off well constructed homes, homes shifted off their foundation, mobile homes completely destroyed, large trees snapped or uprooted, cars can be tossed.	
EF-3	136-165 mph	'Severe' damage: entire stories of well constructed homes destroyed, significant damage done to large buildings, homes with weak foundations can be blown away, trees begin to lose their bark.	
EF-4	166-200 mph	'Extreme' damage: Well constructed homes are leveled, cars are thrown significant distances, top story exterior walls of masonry buildings would likely collapse.	
EF-5	> 200 mph	'Massive/incredible' damage: Well constructed homes are swept away, steel-reinforced concrete structures are critically damaged, high-rise buildings sustain severe structural damage, trees are usually completely debarked, stripped of branches and snapped.	

Source: <https://weather.com/storms/tornado/news/enhanced-fujita-scale-20130206>

Previous Occurrences

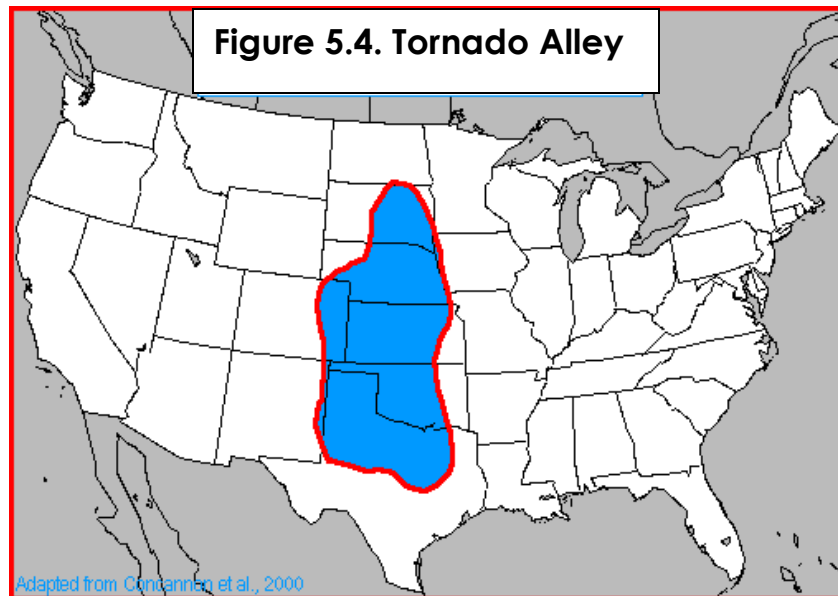
On December 26, 2015 an EF 4 tornado with wind speeds of 180 mph impacted the City of Garland. The tornado left a 13 mile long and 550 yard wide path of destruction. The tornado caused nine fatalities on the George Bush Turnpike and caused damage to 440 single family homes, 753 apartment units, 17 commercial buildings and 2 churches. About 48,000 cubic yards of debris had to be removed from the impacted area and 26 animals rescued. This tornado cost the City of Garland roughly \$1,703,320.00

Figure 5.3. Tornado Path



Probability of Future Events

The City of Garland sits in "Tornado Alley," and has a high vulnerability to tornadoes. Previous historical data in Table 5.5 shows a total of ninety seven tornadoes occurring within Dallas County since 1952. Data is not currently available specifically for the City of Garland. Calculations from this data suggests that a tornado will impact Dallas County 1.5 times a year. Therefore, according to Table 4.3 Hazard Frequency Ranking it is highly likely for a tornado to occur within Dallas County in the next year.



National Oceanic and Atmospheric Administration

Impact on Community

A future event is obviously capable of doing substantial damage to the community. The city is the second largest in Dallas County with an estimated 236,897 residents as of July 1, 2015. Infrastructure within the region is also for the most part built out. This makes warning time critical. A large population of residents would have little time to react to such an event. A tornado of medium severity (EF2-EF3) would be capable of doing great damage in such a heavily populated area.

Table 5.5 shows previous tornado occurrences from the National Climatic Data Center for all of Dallas County, Texas between 1/1/1952 and 12/31/2015. A total of 97 tornadoes have been reported in Dallas County. They have caused 23 deaths, 836 injuries, and an estimated \$594,259,030 dollars in damage.

Summary of Vulnerability

The entire planning area is equally vulnerable to tornadoes. A large tornado event is capable of producing winds that can reach 300 miles per hour. Damage paths can be in excess of one mile wide and 50 miles long. The Hazard Mitigation Planning Team has determined that the City of Garland is at high risk of substantial impacts from tornadoes due to the number of previous occurrences combined with the impacts of those occurrences. All residential neighborhoods, businesses, critical facilities, infrastructure and populations are vulnerable to tornadoes. In addition, there is 1 police station, 11 fire stations, 1 hospital, 4 DART Transit Centers, and 72 GISD schools at risk from impact of a tornado.

5.5. Tornado Historical Data

COUNTY	DATE	EVENT TYPE	EF SCALE	DEATHS	INJURIES	PROPERTY DAMAGE	CROP DAMAGE
DALLAS CO.	3/2/1952	Tornado	F0	0	0	2,500	0
DALLAS CO.	4/2/1957	Tornado	F3	10	200	2,500,000	0
DALLAS CO.	4/3/1957	Tornado	F0	0	0	250	0
DALLAS CO.	4/20/1957	Tornado		0	0	30	0
DALLAS CO.	6/12/1957	Tornado	F3	0	0	2,500	0
DALLAS CO.	8/12/1958	Tornado	F2	0	0	2,500	0
DALLAS CO.	10/4/1959	Tornado	F3	0	0	250,000	0
DALLAS CO.	5/5/1960	Tornado	F0	0	0	0	0
DALLAS CO.	5/5/1960	Tornado	F0	0	0	2,500	0
DALLAS CO.	4/11/1961	Tornado	F2	0	3	25,000	0
DALLAS CO.	5/27/1963	Tornado	F0	0	0	0	0
DALLAS CO.	5/29/1963	Tornado	F0	0	0	0	0
DALLAS CO.	9/5/1963	Tornado		0	0	0	0
DALLAS CO.	5/23/1966	Tornado	F2	0	0	25,000	0
DALLAS CO.	3/26/1967	Tornado	F0	0	0	0	0
DALLAS CO.	5/13/1968	Tornado	F1	0	0	250	0
DALLAS CO.	5/25/1968	Tornado	F0	0	1	25,000	0
DALLAS CO.	5/8/1969	Tornado	F0	0	0	0	0
DALLAS CO.	10/12/1969	Tornado	F3	0	2	2,500	0
DALLAS CO.	4/25/1970	Tornado	F2	0	12	2,500,000	0
DALLAS CO.	2/18/1971	Tornado	F1	0	0	2500	0
DALLAS CO.	10/19/1971	Tornado	F1	0	2	250,000	0
DALLAS CO.	12/14/1971	Tornado	F1	0	1	2,500,000	0
DALLAS CO.	12/14/1971	Tornado	F1	0	1	25,000	0
DALLAS CO.	12/14/1971	Tornado	F1	0	0	250,000	0
DALLAS CO.	12/14/1971	Tornado	F2	0	4	2,500,000	0
DALLAS CO.	12/14/1971	Tornado	F1	0	4	2,500,000	0
DALLAS CO.	11/12/1972	Tornado	F1	0	0	25,000	0
DALLAS CO.	11/12/1972	Tornado	F1	0	0	250,000	0
DALLAS CO.	5/1/1973	Tornado	F1	0	0	25,000	0
DALLAS CO.	4/11/1974	Tornado	F2	0	0	250,000	0
DALLAS CO.	6/12/1974	Tornado		0	0	0	0
DALLAS CO.	6/8/1975	Tornado	F0	0	0	0	0
DALLAS CO.	7/25/1975	Tornado	F0	0	0	0	0
DALLAS CO.	3/26/1976	Tornado	F1	0	0	250	0
DALLAS CO.	5/26/1976	Tornado	F3	0	1	2,500,000	0
DALLAS CO.	7/4/1976	Tornado		0	0	2500	0
DALLAS CO.	4/20/1977	Tornado	F2	0	0	25,000	0
DALLAS CO.	5/3/1979	Tornado	F1	0	0	25,000	0
DALLAS CO.	5/3/1979	Tornado	F1	0	0	25,000	0
DALLAS CO.	5/3/1979	Tornado	F2	0	5	25,000,000	0
DALLAS CO.	5/3/1979	Tornado	F0	0	0	250	0
DALLAS CO.	5/8/1981	Tornado	F2	0	0	25,000	0
DALLAS CO.	10/13/1981	Tornado	F1	0	0	0	0
DALLAS CO.	3/14/1982	Tornado	F1	0	0	250,000	0
DALLAS CO.	4/16/1982	Tornado	F0	0	0	0	0
DALLAS CO.	5/11/1982	Tornado	F1	0	1	250,000	0
DALLAS CO.	3/23/1984	Tornado	F1	0	0	25,000	0

DALLAS CO.	12/13/1984	Tornado	F3	0	0	25,000,000	0
DALLAS CO.	12/13/1984	Tornado	F3	0	28	25,000,000	0
DALLAS CO.	5/13/1985	Tornado	F2	0	16	2,500,000	0
DALLAS CO.	3/16/1987	Tornado	F0	0	0	0	0
DALLAS CO.	1/19/1990	Tornado	F2	0	1	2,500,000	0
DALLAS CO.	10/7/1992	Tornado	F0	0	0	2,500	0
DALLAS CO.	5/9/1993	Tornado	F1	0	1	5,000,000	0
DALLAS CO.	4/25/1994	Tornado	F0	0	0	50,000	0
DALLAS CO.	4/25/1994	Tornado	F2	0	7	50,000,000	0
DALLAS CO.	4/25/1994	Tornado	F4	3	48	500,000	0
DALLAS CO.	4/29/1994	Tornado	F0	0	0	0	0
DALLAS CO.	10/21/1994	Tornado	F0	0	0	0	0
DALLAS CO.	10/21/1994	Tornado	F0	0	0	0	0
DALLAS CO.	10/21/1994	Tornado	F0	0	0	0	0
DALLAS CO.	10/21/1994	Tornado	F0	0	0	0	0
DALLAS CO.	3/25/1995	Tornado	F0	0	0	0	0
DALLAS CO.	4/19/1995	Tornado	F0	0	0	0	0
DALLAS CO.	4/19/1995	Tornado	F1	0	8	600,0000	0
DALLAS CO.	1/17/1996	Tornado	F1	0	1	750,000	0
DALLAS CO.	1/17/1996	Tornado	F2	0	0	750,000	0
DALLAS CO.	1/17/1996	Tornado	F1	0	0	0	0
DALLAS CO.	1/17/1996	Tornado	F1	0	0	0	0
DALLAS CO.	1/17/1996	Tornado	F0	0	0	0	0
DALLAS CO.	1/17/1996	Tornado	F0	0	0	0	0
DALLAS CO.	1/17/1996	Tornado	F1	0	0	0	0
DALLAS CO.	10/21/1996	Tornado	F1	0	7	3,000,000	0
DALLAS CO.	10/21/1996	Tornado	F0	0	1	120,000	0
DALLAS CO.	3/28/2000	Tornado	F2	0	0	0	0
DALLAS CO.	3/28/2000	Tornado	F0	0	0	0	0
DALLAS CO.	9/5/2001	Tornado	F1	0	0	125,000	0
DALLAS CO.	4/5/2003	Tornado	F0	0	0	1,000	0
DALLAS CO.	4/25/2005	Tornado	F0	0	0	0	0
DALLAS CO.	4/13/2007	Tornado	EF0	0	0	50,000	0
DALLAS CO.	6/26/2007	Tornado	EF0	0	0	60,000	0
DALLAS CO.	4/10/2008	Tornado	EF1	0	0	1,000,000	0
DALLAS CO.	9/8/2010	Tornado	EF1	0	0	200,000	0
DALLAS CO.	9/8/2010	Tornado	EF2	0	1	750,000	0
DALLAS CO.	5/24/2011	Tornado	EF1	0	0	150,000	0
DALLAS CO.	5/24/2011	Tornado	EF0	0	0	0	0
DALLAS CO.	4/3/2012	Tornado	EF2	0	10	400,000,000	3000
DALLAS CO.	4/3/2012	Tornado	EF0	0	0	4,000	0
DALLAS CO.	4/3/2012	Tornado	EF0	0	0	100,000	0
DALLAS CO.	4/3/2012	Tornado	EF0	0	0	150,000	0
DALLAS CO.	4/3/2012	Tornado	EF0	0	2	300,000	0
DALLAS CO.	5/8/2014	Tornado	EF0	0	0	80,000	0
DALLAS CO.	5/24/2015	Tornado	EF1	0	0	100,000	0
DALLAS CO.	5/24/2015	Tornado	EF1	0	0	600,000	0
DALLAS CO.	12/26/2015	Tornado	EF3	0	0	1,370,000	0
DALLAS CO.	12/26/2015	Tornado	EF4	10	468	26,000,000	0

National Climatic Data Center



Severe Winter Weather

Hazard Description

Severe winter weather can be a variety of precipitation that forms at low temperatures such as heavy snowfall, sleet or ice. Many winter depressions give rise to exceptionally heavy rain and widespread flooding. Conditions worsen if the precipitation is frozen.

Location

Due to the unpredictable nature of winter storms, it is impossible to determine the exact area of their future occurrences. The entire planning area, City of Garland, is equally subject to severe winter weather.

Severity

Table 5-10 shows the National Weather Service Wind Chill Temperature (WCT) index. It uses advances in science, technology, and computer modeling to provide an accurate, understandable, and useful formula for calculating the dangers from winter winds and freezing temperatures. The index:

- Calculates wind speed at an average height of five feet
- Incorporates heat transfer theory which is heat loss from the body to its surroundings during cold windy days
- Lowers the calm wind threshold to 3 mph
- Uses a consistent standard for skin tissue resistance
- Assumes no impact from the sun (i.e., clear night sky)

The lowest temperature recorded in Garland was 2 ° in 1949, 0.8 inches of snow fell as well. Although temperatures are slowly increasing severe winter weather remains a threat to Garland and it is possible that temperatures could reach record lows again in the future.

Table 5.10



NWS Windchill Chart



Wind (mph)

Calm	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
5	36	31	25	19	13	7	1	-5	-11	-16	-22	-28	-34	-40	-46	-52	-57	-63
10	34	27	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47	-53	-59	-66	-72
15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51	-58	-64	-71	-77
20	30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42	-48	-55	-61	-68	-74	-81
25	29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44	-51	-58	-64	-71	-78	-84
30	28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60	-67	-73	-80	-87
35	28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62	-69	-76	-82	-89
40	27	20	13	6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64	-71	-78	-84	-91
45	26	19	12	5	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-79	-86	-93
50	26	19	12	4	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74	-81	-88	-95
55	25	18	11	4	-3	-11	-18	-25	-32	-39	-46	-54	-61	-68	-75	-82	-89	-97
60	25	17	10	3	-4	-11	-19	-26	-33	-40	-48	-55	-62	-69	-76	-84	-91	-98

Frostbite Times

30 minutes

10 minutes

5 minutes

Wind Chill (°F) = 35.74 + 0.6215T - 35.75(V^{0.16}) + 0.4275T(V^{0.16})

Where, T= Air Temperature (°F) V= Wind Speed (mph)

Effective 11/01/01

Table 5.11 is the Sperry-Piltz Ice Accumulation (SPIA) Index. This is a newly developed index that when combined with National Weather Service forecast data can help predict impacts from ice. It uses ice accumulation, wind speeds, and temperatures to predict the impact of winter storms on public utilities, particularly power lines. It is a tool used for risk management and winter weather preparedness.²

Table 5.11

The Sperry-Piltz Ice Accumulation Index, or “SPIA Index” – Copyright, February, 2009			
ICE DAMAGE INDEX	* AVERAGE NWS ICE AMOUNT (in inches) * Revised-October, 2011	WIND (mph)	DAMAGE AND IMPACT DESCRIPTIONS
0	< 0.25	< 15	Minimal risk of damage to exposed utility systems; no alerts or advisories needed for crews, few outages.
1	0.10 – 0.25	15 - 25	Some isolated or localized utility interruptions are possible, typically lasting only a few hours. Roads and bridges may become slick and hazardous.
	0.25 – 0.50	> 15	
2	0.10 – 0.25	25 - 35	Scattered utility interruptions expected, typically lasting 12 to 24 hours. Roads and travel conditions may be extremely hazardous due to ice accumulation.
	0.25 – 0.50	15 - 25	
	0.50 – 0.75	< 15	
3	0.10 – 0.25	> = 35	Numerous utility interruptions with some damage to main feeder lines and equipment expected. Tree limb damage is excessive. Outages lasting 1 – 5 days.
	0.25 – 0.50	25 - 35	
	0.50 – 0.75	15 - 25	
	0.75 – 1.00	< 15	
4	0.25 – 0.50	> = 35	Prolonged & widespread utility interruptions with extensive damage to main distribution feeder lines & some high voltage transmission lines/structures. Outages lasting 5 – 10 days.
	0.50 – 0.75	25 - 35	
	0.75 – 1.00	15 - 25	
	1.00 – 1.50	< 15	
5	0.50 – 0.75	> = 35	Catastrophic damage to entire exposed utility systems, including both distribution and transmission networks. Outages could last several weeks in some areas. Shelters needed.
	0.75 – 1.00	> = 25	
	1.00 – 1.50	> = 15	
	> 1.50	Any	

(Categories of damage are based upon combinations of precipitation totals, temperatures and wind speeds/directions.)

Previous Occurrences

Several major severe winter weather events have impacted Garland over the past few years. An arctic front moved into the Dallas area during the early morning hours of January 31, 2011. The timing of the cold front interacted with the moist air from the Gulf and caused precipitation to fall as freezing rain at first, then sleet and finally snow. This caused a thick sheet of ice to form on all of the roadways causing extremely hazardous driving conditions. Temperatures continued to stay below freezing for the next few days which prevented the drying and clearing of roadways. School districts were closed for the duration of the event and most municipal courts and solid waste services had to be cancelled or postponed. On Friday, February 4th, the City of Garland chose to close most City facilities at noon after another storm system brought an additional 6 inches of snow. The ice storm nearly paralyzed the Metroplex for four days. As if that wasn't enough, a band of moderate sleet moved through Garland in the early morning hours of February 9, 2011, leaving roadways and sidewalks with about a ¼" of ice on them.

² SPIA Index: <http://www.spia-index.com/>

A few years later, Winter Storm Cleon delivered snow, sleet, and freezing rain to a large swath of the Dallas Country from December 1, 2013 through the morning of December 7, 2013. Garland had the following impacts from this winter weather event: approximately 200 reports of downed trees, 3,500 power outages, 7 house fires, City facility walkways iced over, one fire station could not take calls due to affected power lines, City services and staffing levels were modified, Garland Independent School District closed early, Dallas Area Rapid Transit (DART) light rails were not operational and major increases of vehicle accidents.

Probability of Future Events

Severe winter weather within Dallas County occurs several times a year, although the severity of impact varies. Previous historical data in Table 5.12 shows a total of 58 severe winter weather events have occurred within Dallas County since 1996. Data is not currently available specifically for the City of Garland. Calculations from this data suggests that a severe winter weather event will impact Dallas County 2.9 times a year. Therefore, according to Table 4.3 Hazard Frequency Ranking it is highly likely for a severe winter weather event to occur within the next year.

Impact on Community

City of Garland residents are generally unfamiliar with snow, ice and freezing temperatures. When these conditions occur residents do not know how to prepare and respond. When temperatures fall below freezing this kills tender vegetation, such as flowering plants and citrus fruit crops. Wet snow and ice rapidly accumulates on trees with leaves, causing the branches to snap under the load. Motorists are unaccustomed to driving on slick roads and accidents increase exponentially. Some buildings are poorly insulated or lack heat altogether, forcing residents to live in freezing temperatures. While snowstorms are not frequent in Texas, ice storms create dangerous driving conditions causing an increase in accidents. Pipes freeze and leave residents without water and damage to their homes. Power lines and trees snap due to the weight of the ice on them leaving residents unable to run the heater in their homes. Because more than half of residents are impacted by large severe winter weather the Planning Team has determined that impacts are substantial.

The biggest concern with severe winter weather in the City of Garland is the previously stated nature of residents being unaccustomed to it. Although Dallas County is impacted by some form of severe winter weather several times a year large, incidents are not as frequent. This brings up safety concerns, as some are not educated on how to properly deal with large amounts of snow and ice. According to the National Climatic Data Center, 58 severe winter weather events have been reported in Dallas County, Texas between 1/1/1996 and 12/31/2016. They have caused 2 deaths, and caused an estimated \$201,500,000 dollars in property damage.

Table 5.12 Severe Winter Weather Historical Data

COUNTY	DATE	EVENT TYPE	DEATHS	PROPERTY DAMAGE
DALLAS	2/1/1996	Heavy Snow	0	0
DALLAS	11/24/1996	Winter Storm	0	0
DALLAS	1/6/1997	Heavy Snow	0	0
DALLAS	1/12/1997	Winter Weather	0	0
DALLAS	1/14/1997	Winter Weather	0	0
DALLAS	12/22/1998	Ice Storm	0	0
DALLAS	1/25/2000	Winter Storm	1	0
DALLAS	12/12/2000	Winter Storm	0	0
DALLAS	12/25/2000	Winter Storm	0	0
DALLAS	12/31/2000	Winter Storm	0	0
DALLAS	1/1/2001	Heavy Snow	0	0
DALLAS	11/28/2001	Ice Storm	0	0
DALLAS	2/5/2002	Winter Storm	0	0
DALLAS	3/2/2002	Winter Storm	0	0
DALLAS	2/24/2003	Winter Storm	0	0
DALLAS	2/14/2004	Heavy Snow	0	0
DALLAS	12/22/2004	Winter Weather	0	0
DALLAS	12/7/2005	Winter Storm	0	0
DALLAS	2/18/2006	Winter Weather	0	0
DALLAS	11/30/2006	Winter Storm	0	20,000
DALLAS	1/13/2007	Ice Storm	0	50,000
DALLAS	1/17/2007	Winter Weather	0	20,000
DALLAS	2/1/2007	Winter Weather	0	0
DALLAS	12/15/2008	Winter Weather	0	0
DALLAS	12/23/2008	Winter Weather	0	0
DALLAS	1/5/2009	Winter Weather	0	35,000
DALLAS	1/27/2009	Ice Storm	1	300,000
DALLAS	12/24/2009	Winter Weather	0	250,000
DALLAS	1/7/2010	Winter Weather	0	700,000
DALLAS	2/11/2010	Heavy Snow	0	16,000
DALLAS	3/20/2010	Winter Weather	0	100,000
DALLAS	2/1/2011	Ice Storm	0	500,000
DALLAS	2/3/2011	Heavy Snow	0	150,000
DALLAS	12/5/2013	Winter Storm	0	2,000,000
DALLAS	2/10/2014	Winter Weather	0	0
DALLAS	2/22/2015	Winter Storm	0	25,000
DALLAS	3/4/2015	Heavy Snow	0	0
DALLAS	3/4/2015	Sleet	0	0
DALLAS	3/4/2015	Sleet	0	0
DALLAS	3/4/2015	Winter Weather	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0

DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Heavy Snow	0	0
DALLAS	3/5/2015	Sleet	0	0
DALLAS	3/5/2015	Winter Weather	0	0
DALLAS	3/5/2015	Winter Weather	0	0

National Climatic Data Center

Summary of Vulnerability

The entire planning area is equally vulnerable to severe winter weather. The Planning Team has determined that the City is at high risk of substantial impact from severe winter weather. The biggest concern to the planning area is maintaining power to structures, as winter weather may cause disruptions. The other concern is the citizen's inexperience in preparing for the highly likely severe winter weather events. Severe winter weather have an increased impact on vulnerable populations and properties, including the elderly, transients and those in homes without adequate heating capabilities. These storms would also have an increase vulnerability on all overhead utility lines, streets and highways, especially overpasses. Electric services may be interrupted due to impacted overhead utility lines being damaged. In addition there is 1 police station, 11 fire stations, 1 hospital, 4 DART Transit Centers, and 72 GISD schools at risk of impact from severe winter weather.



Terrorism

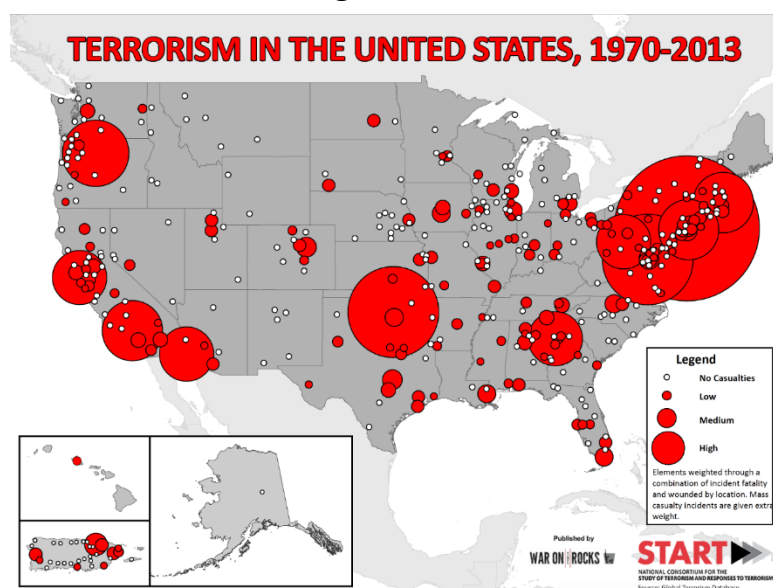
Hazard Description

According to the Homeland Security Act of 2002, terrorism is defined as activity that is dangerous to human life or potentially destructive of critical infrastructure or key resources. Terrorism can be a violation of the criminal laws of the United States or of any State or other subdivision. Terrorism can include intimidating or coercion of a civilian population to influence the policy or to affect the government by mass destruction, assassination, or kidnapping. There are different types of terrorism defined by the motivation behind attacks. There are also different methods and tactics that terrorists use in their attacks such as assassination, explosives, radiological threat, radicalization, chemical threats, biological threats, active shooters, infrastructure threats, arson, kidnapping and cyber threats.

Location

The entire planning area, the City of Garland, is subject to terrorism. It is thought that terrorism occurs most often where populations are high, at crowded events or symbolic venues that will generate the greatest media attention. Garland is a high population jurisdiction that is located near other areas that have had terrorism incidents occur. Figure 5.28 depicts all terrorist attacks over four decades. The size of the circle reflects the number of casualties from each attack. The data used was from the Global Terrorism Database. Terrorists often identify soft targets to attack. Soft targets are people or places that are relatively unprotected or vulnerable. Soft targets include public places like shopping malls, movie theaters, hotels, special events and community centers.³ The City of Garland is not a stranger to terrorism. In May of 2015, a terrorist event occurred at the local Curtis Culwell Center.

Figure 5.28



³ Global Risk Insights: <http://globalriskinsights.com/2016/07/soft-target-terrorist-attacks/>

Michael Jetter, a professor at the School of Economics and Finance at Universidad EAFIT in Medellín, Colombia, and a research fellow at the Institute for the Study of Labour in Bonn, Germany, conducted a study on more than 60,000 terrorist attacks reported in the New York Times between 1970 and 2012. His research was able to link media coverage of acts of terrorism to an increase of attacks committed in the same area. If this research is accurate, because of the media coverage of the Garland terrorism incident the city is at a greater risk of another attack at that location. In addition to the Curtis Culwell Center, there are other vulnerable locations within the City such as, local special events.

Severity

In 2014, a total of 13,463 terrorist attacks occurred worldwide, resulting in more than 32,700 deaths and more than 34,700 injuries. In addition, more than 9,400 people were kidnapped or taken hostage.⁴ Only a small percentage of these events occurred on American soil. However, with the ever changing political environment, it is not clear how much this percentage may shift over time. Only terrorist event has occurred in Garland. It is expected that another will occur in the future.

Table 5.29. Terrorist attacks and casualties worldwide

	Total Attacks		Total Fatalities		Fatalities per Attack		Total Injuries		Injured per Attack		Hostages Taken	
Year	2014	2013	2014	2013	2014	2013	2014	2013	2014	2013	2014	2013
Worldwide	13,463	9,964	32,727	18,066	2.57	1.86	34,791	32,880	2.86	3.45	9,428	3,137

Previous Occurrences

On May 3, 2015, a cartoon drawing contest, "Draw the Prophet", was held at Garland Independent School District (GISD), Curtis Culwell Center. As the event was coming to an end, two males drove up to the front of the building. Both males were armed and opened fire, striking a GISD security officer. Garland police shot and killed both gunmen. The security guard's injuries were not life threatening, and Garland police officers were able to minimize the threat quickly. Police believed the suspects' vehicle may have contained an incendiary device and the Garland Explosive Ordnance Disposal (EOD) Team cleared and secured the vehicle and surrounding area. The surrounding businesses and event participants were evacuated until the scene was cleared.

Probability of Future Events

Because there has been a related terrorism attack in the City of Garland the Planning Team determined that a terrorist attack will occasionally occur in the City of Garland. Occasionally is defined as within the next six years. The likelihood of another terrorism event has also increased due to the recent release of "Attack in Garland" on March 26, 2017, a 60 Minutes Anderson Cooper broadcast. According to Michael Jetter's research described above, terrorist thrive on media attention so this media coverage has potential to heighten the terrorism threat in Garland.

⁴ U.S State Department: <https://www.state.gov/j/ct/rls/crt/2014/239416.htm>

Impact on Community

Terrorism is a rare occurrence in Garland, but because soft targets are the aim and because it's difficult to predict, the severity of impact would be substantial. The U.S Department of State reports that on average in 2014, there were 2.57 fatalities and 2.87 injuries per attack. The other risk of terrorism are regarding infrastructure and cyber-attacks that would impact government critical facilities and services.

Summary of Vulnerability

The entire planning area is equally vulnerable to terrorism. It is probable that there will be some type of terrorism in the City of Garland within the next six years. If a terrorist achieves their goal, the severity of impact would be substantial. Because of previous occurrences, the City of Garland Planning Team considers terrorism to be a high risk hazard.

Soft targets will remain a threat because they have operational characteristics that make them vulnerable and easy to exploit: open and spacious areas, multiple entrances and exits, parking in close proximity, lack of security, and individual screening. These characters give higher rates of success to terrorists and make the community more vulnerable.



Biological Event

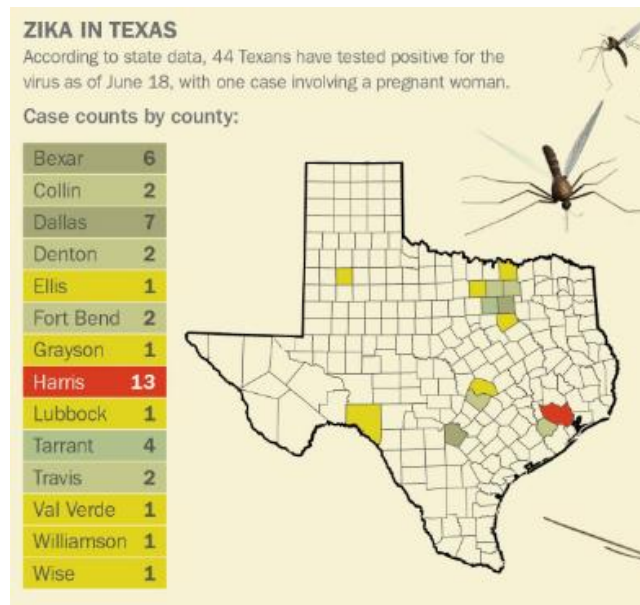
Hazard Description

In this section biological hazards refers to an accidental or naturally occurring disease outbreak of known or unknown origin that pose a threat to the health of living organisms, primarily that of humans. This definition also includes those biological agents found in the environment, or diagnosed in animals, that have the potential for transmission to humans. Intentional transmission of infectious agents is included in the terrorism profile. Examples of biological events include but are not limited to: Zika, H1N1, Ebola, and West Nile.

Location

Because of the mobile nature of populations, it is impossible to accurately map the location of biological events. The entire planning area, the City of Garland, is equally subject to biological events.

Figure 5.30

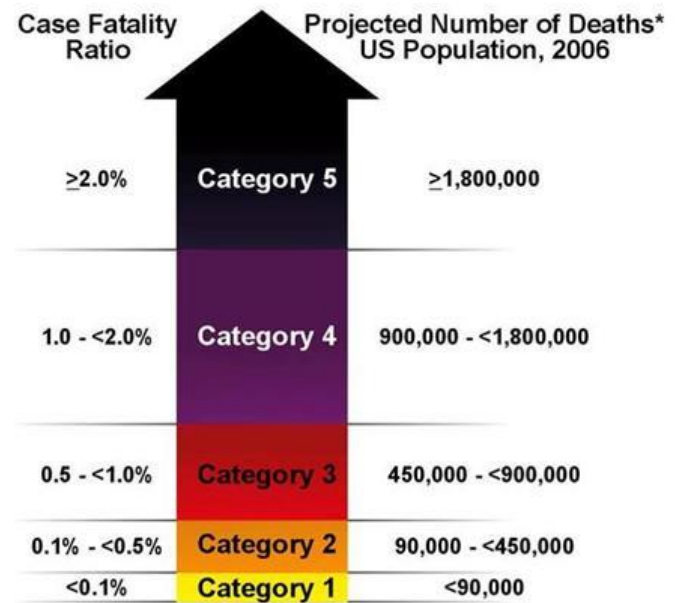


Severity

The Center for Disease Control and Prevention (CDC) determines the severity of pandemics and communicable disease outbreaks based on a measurement system known as the Pandemic Severity Index. The main criteria used to measure pandemic severity will be the case-fatality ratio (CFR), the percentage of deaths out of the total reported cases of the disease. Accompanying the Pandemic

Severity Index is the Interventions by setting table that can be used as a guide for mitigation actions during a biological event. In Table 5.31 below these tools are illustrated. Several biological events have impacted Garland and it is expected that another occur in the future.

Table 5.31



*Assumes 30% illness rate and unmitigated pandemic without interventions

Pandemic Severity Index			
Interventions* by Setting	1	2 and 3	4 and 5
Home Voluntary isolation of ill at home (adults and children); combine with use of antiviral treatment as available and indicated	Recommend†§	Recommend†§	Recommend†§
Voluntary quarantine of household members in homes with ill persons*‡ (adults and children); consider combining with antiviral prophylaxis if effective, feasible, and quantities sufficient	Generally not recommended	Consider**	Recommend**
School Child social distancing -dismissal of students from schools and school based activities, and closure of child care programs -reduce out-of-school social contacts and community mixing	Generally not recommended Generally not recommended	Consider: ≤ 4 weeks†† Consider: ≤ 4 weeks††	Recommend: ≤ 12 weeks§§ Recommend: ≤ 12 weeks§§
Workplace / Community Adult social distancing -decrease number of social contacts (e.g., encourage teleconferences, alternatives to face-to-face meetings) -increase distance between persons (e.g., reduce density in public transit, workplace) -modify postpone, or cancel selected public gatherings to promote social distance (e.g., postpone indoor stadium events, theatre performances) -modify work place schedules and practices (e.g., telework, staggered shifts)	Generally not recommended Generally not recommended Generally not recommended Generally not recommended	Consider Consider Consider Consider	Recommend Recommend Recommend Recommend

Previous Occurrences

On October 17, 2014 the City of Garland Public Health Department reported that three cases of Ebola had been confirmed in Dallas County since September 28. At least five contacts in Garland were monitored by Dallas County Health and Human Services. These contacts were on an airplane with a nurse that tested positive for the virus. One of the contacts in Garland was asked by Dallas County Health to stay home for 21 days and was monitored twice a day by phone and was told not to travel. The four additional Garland contacts were considered extremely low risk. They self-monitored twice a day by phone. Approximately 177 people in the Dallas area fell under some type of quarantine.⁵

On May 4, 2009, the Dallas County Department of Health and Human Services Department released a health alert which stated "the World Health Organization's pandemic alert level has been raised to 5, signifying human-to-human transmission and sustained community-wide outbreaks with the Novel Influenza A (H1N1) virus, and an imminent likelihood of a pandemic. Community transmission is currently occurring in Dallas County, with 58 probable and confirmed cases identified over the past 8 days."

Probability of Future Events

The occurrence of a biological event is largely impossible to predict, due to the mobile nature of humans and the speed at which a pathogen can spread and mutate. A total of 3 biological events have occurred within Dallas County, with a direct impact on the City of Garland, since 2009. Calculations from this data suggests that a biological event will occur in Dallas County and subsequently the City of Garland, 0.4 times a year. Therefore, according to Table 4.3 Hazard Frequency Ranking it is likely a biological event will occur in Garland within the next three years.

Impact on Community

The potential impact of loss of life and illness from a large biological event is major. Government service levels could potentially be modified to prevent the spread of illness.

Summary of Vulnerability

The entire planning area is equally vulnerable to biological events. The probability of a biological event occurring in Garland to some extent within the next three years is likely. This type of hazard has the potential to cause major impacts to the lives of Garland residents. These factors make a biological hazard a moderate risk for the City of Garland. The most vulnerable individuals to biological agents would be those who live and work in areas with frequent interpersonal contact, those with compromised immune systems, the young, the elderly, and individuals who travel frequently. There is 1 police station, 11 fire stations, 1 hospital, 4 DART Transit Centers, and 72 GISD schools at risk of impact from biological event.

⁵ Vanity Fair: <http://www.vanityfair.com/news/2015/02/ebola-us-dallas-epidemic>



Flood

Hazard Description

Floods are the most prevalent hazard in the United States. A flood is defined as two or more acres of dry land or two or more properties that are covered by water temporarily. There are three types of flooding that occur in Garland: river flood, inland flooding and flash floods. Two types of floods that does not impact Garland are coastal floods and storm surges.

A river flood occurs when water levels rise over the top of river banks due to excessive rain or persistent thunderstorms over the same area for extended periods of time.

Inland flooding occurs when moderate precipitation accumulates over several days where intense precipitation falls over a short period.

A flash flood is caused by heavy or excessive rainfall in a short period of time, generally less than six hours. Flash floods are usually characterized by raging torrents after heavy rains that rip through river beds and urban streets. They can occur within minutes or a few hours of excessive rainfall. They can also occur when no rain has fallen in the area or after a levee or dam has failed. Flash floods are particularly dangerous in urban areas and cause the greatest damage. As more farmlands and wooded areas are converted to urban and suburban areas, the amount of surface area available for water infiltration into the soils decrease. Home sites, parking lots, buildings, and roadways all decrease the surface area of soil on the Earth's surface.

According to the National Weather Service, about 10% of the land in the United States is paved. Water that would have been absorbed into the ground now is redirected into sewage and storm drain systems. In addition to the increase in urban structures, there is a resulting decrease in vegetation which causes additional flooding._

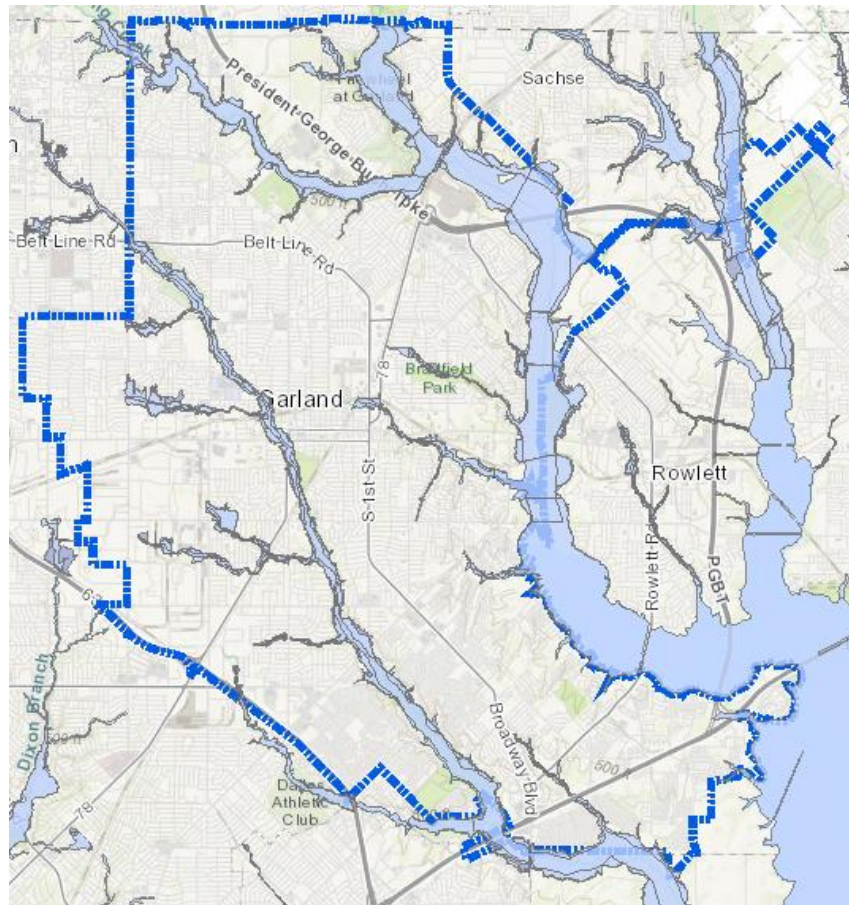


Garland, TX - 2015

Location

Figure 5.6 shows the City of Garland in relation to the 100 and 500 year floodplains. FEMA has published Flood Insurance Rate Maps (FIRMs) showing approximately 2,400 acres of the 100-year floodplain primarily along Duck Creek, Rowlett Creek, Spring Creek, Mills Branch and their tributaries.

Figure 5.6. FEMA 2014 100 and 500 Year Floodplain



City of Garland GIS. Note: FEMA-issued Flood Insurance Rate Maps should be used for detailed floodplain determinations.

Severity

Flood severities are determined by Federal Emergency Management Agency (FEMA) flood zone designations. Flood zones are geographic areas that FEMA has defined according to varying levels of flood risk. These zones are depicted on a community's Flood Insurance Rate Map (FIRM) or Flood Hazard Boundary Map. Each zone reflects the severity of impact or type of flooding in the area. Only a few small areas within the City of Garland are Zone A. Historically, the worst flood Garland has seen was in 1990 and 1991 when water levels rose to 3 feet. After the flood control project the maximum water level in the same area was 2 feet in 2015. This was the result of a near 100 year flood and it impacted far less homes than in 1990. The City of Garland expects that the worst future flood level be the same as in 2015, 2 feet.

Table 5.7. FEMA Flood Zones**Moderate to Low Risk**

Zone	Description
B and X (Shaded light blue in figure?)	Area of moderate flood hazard, usually the area between the limits of the 100-year and 500-year floods. B Zones are also used to designate base floodplains of lesser hazards, such as areas protected by levees from 100-year flood, or shallow flooding areas with average depths of less than one foot or drainage areas less than 1 sq. mi.
C and X (Shaded light blue in figure?)	Area of minimal flood hazard, usually depicted on FIRMs as above the 500-year flood level. Zone C may have ponding and local drainage problems that don't warrant a detailed study or designation as base floodplain. Zone X is the area determined to be outside the 500-year flood and protected by levee from 100-year flood.

High Risk Areas

Zone	Description
A	Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Because detailed analyses are not performed for such areas; no depths or base flood elevations are shown within these zones.
AE	The base floodplain where base flood elevations are provided. AE Zones are now used on new format FIRMs instead of A1-A30 Zones.
A1-30	These are known as numbered A Zones (e.g., A7 or A14). This is the base floodplain where the FIRM shows a BFE (old format).
AH	Areas with a 1% annual chance of shallow flooding, usually in the form of a pond, with an average depth ranging from 1 to 3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage. Base flood elevations derived from detailed analyses are shown at selected intervals within these zones.
AO	River or stream flood hazard areas, and areas with a 1% or greater chance of shallow flooding each year, usually in the form of sheet flow, with an average depth ranging from 1 to 3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage. Average flood depths are shown within these zones.
AR	Areas with a temporarily increased flood risk due to the building or restoration of a flood control system (such as a levee or a dam). Mandatory flood insurance purchase requirements will apply, but rates will not exceed the rates for unnumbered A zones if the structure is built or restored in compliance with Zone AR floodplain management regulations.
A99	Areas with a 1% annual chance of flooding that will be protected by a Federal flood control system where construction has reached specified legal requirements. No depths or base flood elevations are shown within these zones.

Zone	Description
V	Coastal areas with a 1% or greater chance of flooding and an additional hazard associated with storm waves. These areas have a 26% chance of flooding over the life of a 30-year mortgage. No base flood elevations are shown within these zones.
VE, V1-30	Coastal areas with a 1% or greater chance of flooding and an additional hazard associated with storm waves. These areas have a 26% chance of flooding over the life of a 30-year mortgage. Base flood elevations derived from detailed analyses are shown at selected intervals within these zones.

Zone	Description
D	Areas with possible but undetermined flood hazards. No flood hazard analysis has been conducted. Insurance rates are commensurate with the uncertainty of the risk.

FEMA	Map	Service	Center
http://www.msc.fema.gov/webapp/wcs/stores/servlet/info?storeId=10001&catalogId=10001&langId=-1&content=floodZones&title=FEMA%20Flood%20Zone%20Designations			

Damaging flood events occurred on Duck Creek in 1949, 1957, 1962, 1966, 1969, 1971, 1977, 1981, 1989, 1990, 1991 and 2015. These floods caused considerable damage. Following the flooding events of 1990 and 1991, the City of Garland partnered with the United States Army Corps of Engineers to complete a channel improvement project for Duck Creek. This project was complete in 1998. As a result, the base flood elevation was lowered to a level where 514 structures now have the ground floor situated above the base flood elevation. The Letter of Map Revision (LOMR) indicates this change and was finalized on February 5, 2003. Since this improvement to Duck Creek, flood events have lowered dramatically, until 2015 when two flood incidents took the life of one person attempting to cross a flooded road. This was a result of an estimated 100 year flood. However, damage would have been much greater had the Army Corps of Engineers channel improvement project not been completed. Since the 2015 incidents, locking flood gates have been installed across frequently flooded roadways to minimize future loss of life to residents and increase safety.

The City of Garland is subject to flooding from Duck Creek, Rowlett Creek, Spring Creek, Mills Branch, and their tributaries. The planning area is subject to intense local thunderstorms of short duration and general storms extending over periods of several days. Flooding results primarily from stream overflow caused by rainfall runoff, ponding, and sheet flow. Most of the flooding events occur in the spring and summer months. However, severe flooding can be produced by rainfall at any time. Previous historical data in Table 5.8 shows 16 flood events have occurred within Garland since 1998. Calculations from this data suggests that a flood event will impact Garland 0.9 times a year. Therefore, according to Table 4.3 Hazard Frequency Ranking it is highly likely for a flood event to occur within the next year.

Impact on Community

A flood of the same magnitude as that of the 1991 Duck Creek flooding event would cause significantly less damage than it did before the channel widening project. Table 5.8 shows previous flood occurrence data from the NCDC. Sixteen flood events have been reported in Garland between 1/1/1998 and 12/31/2015. Those floods caused two deaths. The May 2015 flood caused an estimated \$8 million dollars in property damage impacting over 100 homes and caused \$884,506.19 of damage to City facilities and infrastructure. Another large flood event would undoubtedly cause major damage to the community.

Table 5.8. Flood Historical Data

COUNTY	TOWN	DATE	EVENT TYPE	DEATHS	PROPERTY DAMAGE	CROP DAMAGE
DALLAS CO.	GARLAND	9/16/1998	Flash Flood	0	0	0
DALLAS CO.	GARLAND	11/24/1996	Flash Flood	0	0	0
DALLAS CO.	GARLAND	9/16/1998	Flash Flood	0	0	0
DALLAS CO.	GARLAND	12/4/1998	Flash Flood	1	0	0
DALLAS CO.	GARLAND	12/4/1998	Flash Flood	0	0	0
DALLAS CO.	GARLAND	6/11/2000	Flash Flood	0	0	0
DALLAS CO.	GARLAND	4/7/2002	Flash Flood	0	0	0
DALLAS CO.	GARLAND	10/18/2002	Flash Flood	0	0	0
DALLAS CO.	GARLAND	1/3/2005	Flash Flood	0	0	0
DALLAS CO.	GARLAND	6/26/2007	Flash Flood	1	0	0
DALLAS CO.	GARLAND	6/27/2007	Flash Flood	0	0	0
DALLAS CO.	GARLAND	9/9/2007	Flash Flood	0	25,000	0
DALLAS CO.	GARLAND	3/18/2008	Flash Flood	0	15,000	0
DALLAS CO.	GARLAND	5/29/2015	Flash Flood	0	0	0
DALLAS CO.	GARLAND	5/29/2015	Flash Flood	0	8,884,506	0
DALLAS CO.	GARLAND	5/30/2015	Flash Flood	1	0	0

National Climatic Data Center

Summary of Vulnerability

The principal flood problem in the City of Garland is the low-lying area adjacent to Duck Creek. The Duck Creek watershed is approximately 96 percent developed with only a small portion of the watershed available for future development. The United States Army Corps of Engineers (USACE) considers existing and future urbanization conditions to remain the same for the Duck Creek basin. The mitigation enhancements to the City which also include 8 flood gates and an aggressive floodplain management program has lessened the impact of a flood event. The Hazard Mitigation Planning Team has determined that the City of Garland is at moderate risk of major impacts from floods due to the number of previous occurrences, combined with the impacts of those occurrences, severe thunderstorms the area sustains and heavy development surrounding Garland. There are 452 total flood loss properties in Garland valued at roughly \$10 million dollars which are the most vulnerable to flooding. In addition to these parcels, there is 1 police station, 11 fire stations, 1 hospital, 4 DART Transit Centers, and 72 GISD schools at risk of impact from flooding.

National Flood Insurance Program Overview

Summary

Nearly 20,000 communities across the United States and its territories participate in the NFIP by adopting and enforcing floodplain management ordinances. In exchange, the NFIP makes federally backed flood insurance available to homeowners, renters, and business owners in these communities. Participation in the NFIP is voluntary.

Flood insurance is designed to provide an alternative to disaster assistance and reduce the costs of repairing damage to buildings and their contents caused by floods. Flood damage is reduced by nearly \$1 billion a year through communities implementing sound floodplain management requirements and property owners purchasing flood insurance. Additionally, buildings constructed in compliance with NFIP building standards suffer approximately 80 percent less damage annually than those not built in compliance.

Local Participation in the NFIP

Based on TCEQ records, the City of Garland enrolled in the NFIP Emergency Program on August 8, 1970 and the Regular Program on April 16, 1971. As of September, 2015 the City of Garland had 450 active flood insurance policies within the community. Between January 1, 1978 and September 1, 2016 the City of Garland had 462 total flood losses, damage valued roughly at \$10 million dollars. Table 5.8 shows all flood losses for the City of Garland. Through the Building Inspections and Engineering Department, Garland will continue to comply with NFIP. Garland will meet FEMA ordinances regarding new developments and will enforce ordinances and regulations in regards to existing developments.

Table 5.8

Federal Emergency Management Agency Loss Statistics from Jan 1, 1978 through 11/1/2016					
Community	Total	Closed	Open Losses	CWOP	Total
Garland	462	376	0	86	\$9,933,174.11

Source: <http://bsa.nfipstat.fema.gov/reports/1040.htm>

Repetitive Loss Properties

- Two or more claims of more than \$1,000 paid by the NFIP within any 10-year period since 1978.

To focus resources on those properties that represent the best opportunities for mitigation, Congress defined a subset called "Severe Repetitive Loss Properties" defined below. Garland has 56 repetitive loss properties, three of which are commercial properties.

Severe Repetitive Loss Properties

- Four or more claims of more the \$5,000; or
- Two to three claims that cumulatively exceed the building's value

Assessing Vulnerability: Addressing Repetitive Loss

The Federal Emergency Management Agency (FEMA) produces statistics on community flood losses. Losses are determined by claims made to the National Flood Insurance Program (NFIP). The following section is an assessment of claims to the NFIP, and properties within the City of Garland which are designated as repetitive loss structures.

Table 5.9 provides a summary of residential repetitive flood insurance claims for individual streets in Garland that include repetitive loss properties. Address data about individual sites has been omitted for confidentiality. The loss history includes all flood claims paid on an insured property, regardless of any change of ownership. The data begins at the building's construction or back to 1978 if the building was constructed prior to 1978. The history includes the number of repetitive loss properties on each street, average total amount paid to each structure, date of the last loss, and the average estimated structure value.

Table 5.9 City of Garland Repetitive Loss Properties

Street Name	Number of Properties with Losses	Total Number of Losses	Date of Last Loss	Average Amount Paid Per Structure	Average Structure Value
Glenbrook DR	24	78	9/10/2007	\$105,223.88	\$146,544.81
Ridgedale DR	13	32	3/19/2006	\$81,330.96	\$156,344.29
Forest LN	3	7	10/21/1994	\$57,938.14	\$269,333.33
Rock Creek	3	6	4/12/1991	\$35,177.48	\$138,866.67
Ranier Cir	3	6	4/11/1991	\$34,047.75	\$108,573.33
Pleasant Valley RD (commercial)	2	16	3/18/2008	\$218,739.30	\$71,160.00
University DR	2	5	4/12/1991	\$10,848.80	\$145,610.00
Frances DR	1	2	4/11/1991	\$25,616.67	\$96,580.00
ST George	1	2	4/15/1990	\$5,721.97	\$98,730.00
W Centerville RD (commercial)	1	4	6/11/2000	\$30,761.74	\$140,500.00
Iroquois	1	2	5/5/1995	\$7,233.95	\$119,590.00
Carroll DR	1	5	6/21/2000	\$51,770.75	\$234,170.00
Brookview	1	2	4/11/1991	\$16,393.64	\$67,000.00

FEMA – Garland Repetitive Loss Properties 08-31-2015



Earthquake

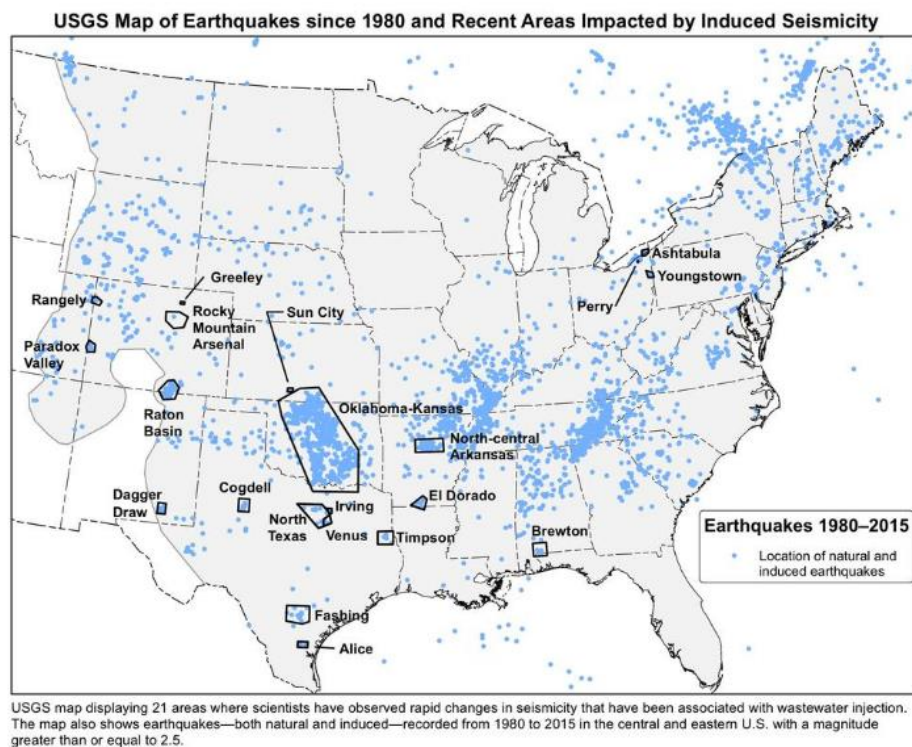
Hazard Description

Earthquakes are sudden rolling or shaking events caused by movement under the earth's surface. Earthquakes happen along cracks in the earth's surface, called fault lines, and can be felt over large areas. They usually last less than one minute but can cause substantial damage to infrastructure in a short amount of time.

Location

All 50 states and 5 U.S. territories are at some risk for earthquakes and they can happen at any time of the year. The most significant hazards from induced seismicity are in six states, listed in order from highest to lowest potential hazard: Oklahoma, Kansas, Texas, Colorado, New Mexico and Arkansas. Oklahoma and Texas have the largest populations exposed to induced earthquakes.⁶ The City of Garland, is equally subject to earthquakes.

Figure 5.23



Severity

None of the Texas earthquakes have exceeded a magnitude of 6.0, and most have been fairly small and caused little to no damage. The largest one in Dallas County was a 3.6 on the Richter Scale. Similar sized earthquakes are expected in the future. Table 5.24 below combines the Mercalli and Richter Scale which allows planners to assess the impact earthquakes have.

⁶ U.S Geological Survey: <https://www.usgs.gov/news/induced-earthquakes-raise-chances-damaging-shaking-2016>

Table 5.24. Mercalli and Richter scale

Richter	Mercalli	Earthquake Effects
2	I	Instrumental. Not felt except by a very few under especially favourable conditions detected mostly by Seismography.
	II	Feeble. Felt only by a few persons at rest, especially on upper floors of buildings.
	III	Slight. Felt quite noticeably by persons indoors, especially on upper floors of buildings. Many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibration similar to the passing of a truck.
3	IV	Moderate. Felt indoors by many, outdoors by few during the day. At night, some awakening. Dishes, windows, doors disturbed; walls make cracking sound. Sensation like a heavy truck striking building. Standing motor cars rock noticeably.
4	V	Rather Strong. Felt by nearly everyone; many awakened. Some dishes, windows broken. Un-stable objects overturned. Pendulum clocks may stop.
5	VI	Strong. Felt by all, many frightened. Some heavy furniture moved; a few instances of fallen plaster. Damage slight.
	VII	Very Strong. Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable damage in ordinary structures; considerable damage in poorly built or badly designed structures.
6	VIII	Destructive. Damage slight in specially designed structures; considerable damage in ordinary substantial buildings with partial collapse. Damage great in poorly built structures. Fall of factory stacks, columns, monuments, walls. Heavy furniture overturned.
7	IX	Ruinous. Damage considerable in specially designed structures; well designed frame structures thrown out of plumb. Damage great in substantial buildings, with partial collapse. Buildings shifted off foundations.
	X	Disastrous. Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations. Rails bend greatly.
8	XI	Very Disastrous. Few, if any (masonry) structures remain standing. Bridges destroyed. Rails bend greatly.
	XII	Catastrophic. Damage total. Lines of sight and level are distorted. Objects thrown into the air.

Pacific Northwest Seismic Network

Previous Occurrences

Earthquakes have only recently been recorded in the region. The strongest quake to rattle Dallas County occurred on January 6, 2015, and registered a magnitude of 3.6. To date there have been no injuries, fatalities or major damage recorded. The magnitudes experienced in Dallas County are considered minor and only felt by humans but have not caused damage. Currently, there is not a significant amount of data for earthquakes in Dallas County.

Probability of Future Events

According to the North Central Texas Council of Governments, 11 earthquakes (within 3 days) have occurred in Dallas County since 2008 (Table 5.25). Data is not currently available specifically for the City of Garland. Calculations from this data suggests that a similar sized earthquake will occur 0.4 times a year. Therefore, according to Table 4.3 Hazard Frequency Ranking it is likely that an earthquake occur within the next 3 years.

Impact on Community

A 6.0 earthquake, the largest recorded in Texas, if in the City of Garland would have major impacts. Damage has occurred in at least twenty-five of the recorded earthquakes in Texas and one death has been attributed to a Texas quake.⁷

⁷ University of Texas Arlington: <https://www.uta.edu/ce/research/disaster/earthquake.php>

Because this hazard is new to the region, residents, businesses, built infrastructure and first responders have not been educated nor are they prepared for this type of event. The tremors could cause hairline cracks in underground pipes, gas lines and in walls of buildings. The majority of the damages to the community would be the result of property and infrastructure damages. Major could potentially be caused to large overpasses at I-30 and the George Bush Turnpike.

Table 5.25. Dallas County Earthquakes

County	Event Date	Latitude	Longitude	Depth	Magnitude
Dallas	1/6/2012	32.782	-96.685	5	2.1
Dallas	5/15/2009	32.79	-97.02	5	2.6
Dallas	11/1/2008	32.79	-97.02	8	3.3
Dallas	10/31/2008	32.87	-96.97	5	2.7
Dallas	10/31/2008	32.79	-97.03	5	2.9
Dallas	10/31/2008	32.83	-97.03	5	2.9
Dallas	10/31/2008	32.83	-97.01	5	2.9
Dallas	10/31/2008	32.76	-97.02	5	2.5
Dallas	10/31/2008	32.87	-96.97	5	2.6
Dallas	10/31/2008	32.84	-97.03	5	3
Dallas	10/31/2008	32.8	-97.02	5	2.6

Source: NCTCOG Regional Hazard Assessment Tool (RHAT)

Vulnerability

The entire planning area is equally vulnerable to earthquakes. The probability of a small earthquake occurring in Garland within the next 3 years is likely. Large scale earthquakes are considered to be an isolated event, however would cause major damage due to a low risk of high magnitude earthquakes in this area. The unpredictability and unschooled population regarding earthquakes is a concern. Because the region as a whole has not faced infrastructure complications regarding earthquakes the impacts of a large earthquake would be major. Therefore the risk of earthquakes to the City of Garland is moderate. Built environment including structures and overpasses would be the most vulnerable to an earthquake event. There is 1 police station, 11 fire stations, 1 hospital, 4 DART Transit Centers, and 72 GISD schools at risk of impact from an earthquake.



Severe Thunderstorm

Hazard Description

The National Weather Service defines a severe thunderstorm as a storm that has winds of at least 58 mph (50 knots), and/or hail at least 1" in diameter. Severe thunderstorms also can be capable of producing a tornado. Structural wind damage may imply the occurrence of a severe thunderstorm. Straight-line winds are often responsible for wind damage associated with a severe thunderstorm. These winds are often confused with tornadoes because of similar damage and wind speeds. Downbursts or micro bursts are examples of damaging straight-line winds. Wind speeds in some of the stronger downbursts can reach 100 to 150 miles per hour. Lightening is a characteristic of thunderstorms. Lightening is a giant spark of electricity in the atmosphere between clouds, the air, or the ground. Air acts as an insulator between the positive and negative charges in the cloud and between the cloud and the ground. When the opposite charges builds up, the insulating capacity of the air breaks down and there is a rapid discharge of electricity that we know as lightning.

Location

The greatest severe thunderstorm threat in the U.S. extends from Texas to southern Minnesota. But, no place in the United States is completely safe from the threat of severe thunderstorms.⁸ Due to the unpredictable nature of severe thunderstorms, it is impossible to determine the exact area of their future occurrences. The entire planning area, the City of Garland, is equally subject to severe thunderstorms.

Severity

Table 5.19 shows the level of categorical risk of thunderstorms in Day 1-3 Convective Outlooks derived from probability forecasts of tornadoes, damaging winds and large hail.⁹ Table 5.20 shows The Beaufort Wind Scale. The Beaufort Wind Scale is representative of the damage from high winds this community may sustain. The Beaufort Wind Scale allows planners in the community to assess historical data and mitigate for future events. The highest winds to impact Garland in the past 20 years occurred in 2009 and 2011 when winds recorded exceeded 80 mph. This is not a rare occurrence in North Texas and it is expected that 80 mph winds or higher be expected in the future.

⁸ The National Severe Storms Laboratory: <http://www.nssl.noaa.gov/education/svrwx101/thunderstorms/>

⁹ Storm Prediction Center: <http://www.spc.noaa.gov/misc/about.html>

Table 5.20

Understanding Severe Thunderstorm Risk Categories					
THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
Lightning/flooding threats exist with <u>all</u> thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible	More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
					
• Winds to 40 mph • Small hail	• Winds 40-60 mph • Hail up to 1" • Low tornado risk	• One or two tornadoes • Reports of strong winds/wind damage • Hail ~1", isolated 2"	• A few tornadoes • Several reports of wind damage • Damaging hail, 1 - 2"	• Strong tornadoes • Widespread wind damage • Destructive hail, 2" +	• Tornado outbreak • Derecho
* NWS defines a severe thunderstorm as measured wind gusts to at least 58 mph, and/or hail to at least one inch in diameter, and/or a tornado. All thunderstorm categories imply lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles of your location.					

Table 5.19. Beaufort Wind Scale

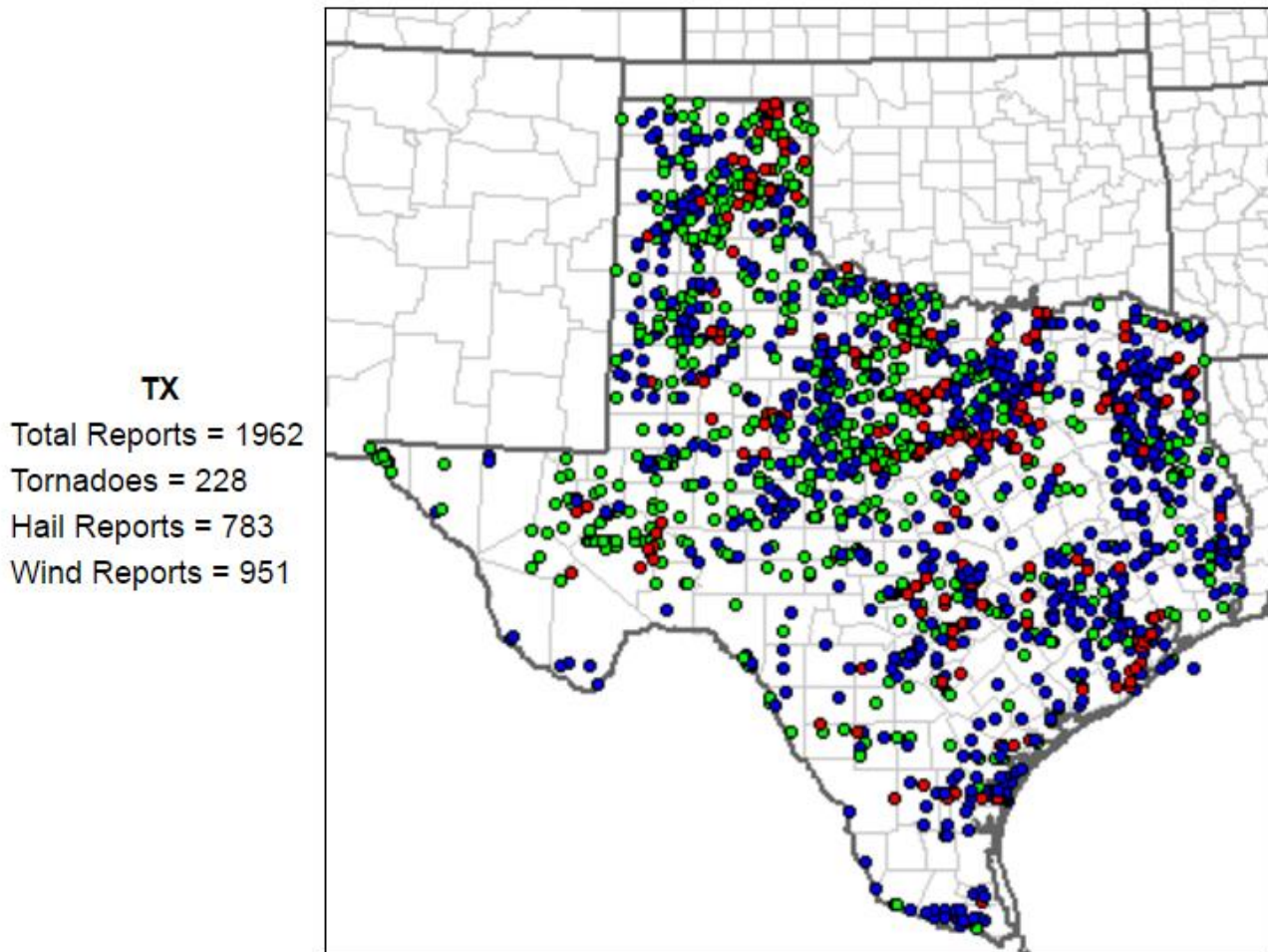
Beaufort Wind Scale				
#	MPH	Knots	Description	Specifications
0	< 1	< 1	Calm	Smoke rises vertically.
1	1-3	1-3	Light Air	Direction of wind shown by smoke drift but not by wind vanes.
2	4-7	4-6	Light Breeze	Wind felt on face; Leaves rustle; Wind vanes moved by wind
3	8-12	7-10	Gentle Breeze	Leaves and small twigs in constant motion; Wind extends light flag.
4	13-18	11-16	Moderate	Raises dust, loose paper; Small branches moved.
5	19-24	17-21	Fresh	Small trees begin to sway; Crested wavelets form on inland waters.
6	25-31	22-27	Strong	Large branches in motion; Whistling heard in telephone wires; Umbrellas used with difficulty.
7	32-38	28-33	Near Gale	Whole trees in motion; Inconvenience felt walking against the wind.
8	39-46	34-40	Gale	Twigs break off trees; Wind generally impedes progress; Mobile homes may shake.
9	47-54	41-47	Strong Gale	Slight structural damage occurs; Mobile homes, sheds, roofs, lanais, and RV's suffer minor damage.
10	55-63	48-55	Storm	Small trees uprooted; Moderate damage occurs to mobile homes and RV's; Brick and wood frame houses receive minor structural and roof damage; Some signs blown down.
11	64-73	56-63	Violent Storm	Moderate sized trees uprooted; Large branches snapped off trees; Chimneys and road signs toppled; Significant mobile home damage; Power lines downed.
12	74-95	64-83	Hurricane Category 1	Mobile homes overturned; Large trees and branches downed; Moderate roof damage to wood and brick homes; Minor pier damage.

Source: <https://www.weather.gov/tbw/beaufort>

Previous Occurrences

The National Weather Service's Storm Prediction Center reported 1,734 severe thunderstorm events in Texas during 2015. This excludes tornadoes as Garland's HazMAP classifies tornadoes as a separate hazard. Narrowing occurrences to the defined planning area of Garland, the National Climatic Data Center reported 22 thunderstorms have been reported between 2/29/1994 and 12/31/2016.

Figure 5.21. Annual Severe Thunderstorm Report Summary - 2015



Probability of Future Events

Calculations from historical data suggests that a severe thunderstorm will impact Garland at least 1 time a year. Therefore, according to Table 4.3 Hazard Frequency Ranking it is highly likely that severe thunderstorms occur in the next year.

Impact on Community

According to the National Climatic Data Center, 22 severe thunderstorms/thunderstorms with significant wind have caused an estimated \$200,000 in property damage. The most common impacts of severe thunderstorms are power outages and private property damage consisting of roof and vehicle damage from wind and hail.

Because severe thunderstorms are such a common occurrence, residents are prepared and practiced in mitigating damage. Public education is also a focus through many different channels: the National Weather Service, media outlets and several City departments push severe thunderstorm messaging year round. The City of Garland and Garland Power & Light both have tree trimming programs to help mitigate effects of severe thunderstorms. GP&L trims trees and other vegetation away from power lines to provide safe and reliable electric service. Because of this proactive vegetation management program, GP&L customers experience fewer outages than average as reported by the American Public Power Association (APPA). For these reasons it has been determined that severe thunderstorms impacts that do occur are minor.

Table 5.22. Severe Thunderstorm Historical Data

COUNTY	DATE	EVENT TYPE	WIND SPEED	PROPERTY DAMAGE
GARLAND	5/29/1994	Thunderstorm Wind	52 kts.	0
GARLAND	11/3/1994	Thunderstorm Wind	56 kts.	0
GARLAND	6/15/1996	Thunderstorm Wind	61 kts.	2,000
GARLAND	6/16/1997	Thunderstorm Wind	52 kts.	0
GARLAND	10/2/1998	Thunderstorm Wind	55 kts.	0
GARLAND	11/9/1998	Thunderstorm Wind	52 kts.	0
GARLAND	2/9/2001	Thunderstorm Wind	52 kts.	0
GARLAND	6/14/2001	Thunderstorm Wind	52 kts.	0
GARLAND	6/14/2001	Thunderstorm Wind	52 kts.	0
GARLAND	4/7/2002	Thunderstorm Wind	52 kts.	0
GARLAND	8/8/2005	Thunderstorm Wind	50 kts.	20,000
GARLAND	5/2/2007	Thunderstorm Wind	50 kts.	0
GARLAND	2/10/2009	Thunderstorm Wind	70 kts.	0
GARLAND	4/14/2011	Thunderstorm Wind	70 kts.	50,000
GARLAND	4/14/2011	Thunderstorm Wind	64 kts.	50,000
GARLAND	10/23/2011	Thunderstorm Wind	61 kts.	10,000
GARLAND	10/23/2011	Thunderstorm Wind	61 kts.	10,000
GARLAND	5/21/2013	Thunderstorm Wind	50 kts.	10,000
GARLAND	5/21/2013	Thunderstorm Wind	60 kts.	30,000
GARLAND	8/13/2013	Thunderstorm Wind	43 kts.	3,000
GARLAND	10/2/2014	Thunderstorm Wind	60 kts.	5,000
GARLAND	3/8/2016	Thunderstorm Wind	51 kts.	10,000

National Climatic Data Center

Summary of Vulnerability

The entire planning area is equally vulnerable to severe thunderstorms. All structures and populations within the City are equally vulnerable to the effects of severe thunderstorms. In addition to these parcels, there is 1 police station, 11 fire stations, 1 hospital, 4 DART Transit Centers, and 72 GISD schools at risk of impact from severe thunderstorms. The highly likelihood of severe thunderstorm is a concern but because the City of Garland is so accustomed to severe thunderstorms and have current mitigation programs the impacts are minor, therefore the risk of severe thunderstorms are moderate.



Infrastructure and Communications Failure

Hazard Description

Infrastructure is the basic facilities and services needed for a community. The City of Garland infrastructure includes roads, wastewater treatment plants, water and wastewater pipes, power plants, electrical lines, bridges, an airport, railroads, and schools. Infrastructure also includes telecommunications equipment, which if impacted may cause a communications failure. A communications failure is the interruption or loss of communications systems including transmission lines, communications satellites, and associated hardware and software necessary for the communications system to function. It can include telecommunications, radio and information technology failures. A communications failure may be the result of an equipment failure, human act (deliberate or accidental) or the result of another hazard event.

Location

Because of the large array of possible infrastructure and communications failures it is impossible to map the location they would occur. The entire planning area, the City of Garland, is equally subject to infrastructure and communications failures.

Severity

When an infrastructure/communications failure occurs, it can have a wide range of effects on a community. Deteriorating infrastructure is a problem all of America is facing. Every four years, the American Society of Civil Engineers Committee on America's Infrastructure provides a comprehensive assessment of the nation's 16 major infrastructure categories grading A to F. The components that are considered when grading include: capacity, condition, funding, future need, operation and maintenance, public safety and resilience. The 2012 Report Card for Texas' Infrastructure was an overall grade of "C".¹⁰

Previous Occurrences

Most past occurrences have been small incidents that were quickly addressed and to date there has not been a significant infrastructure failure within the City of Garland. There was however a communications failure. On March 8, 2017, there was a nationwide issue. AT&T cell phone were unable to call 911 for several hours.

Probability of Future Events

The occurrence of an infrastructure/communications failure is largely impossible to predict. The likelihood of a large-scale extended communications failure is low. However, small scale failures with a short duration is not abnormal. Therefore, according to Table 4.3 Hazard Frequency Ranking the Planning Team has concluded that an infrastructure/communications failure may occasionally occur in the City of Garland in the next six years.

¹⁰ 2012 Report Card for Texas' Infrastructure: <https://www.infrastructurereportcard.org/wp-content/uploads/2013/02/2012-Texas-Report-Card-FINAL.pdf>

Impact on Community

Nearly every aspect of modern life is dependent on digital infrastructure. Critical infrastructure services, such as emergency services, utility services, water services and telecommunications can be impacted by a communications or infrastructure failure. Failures can result in a 911 or emergency warning system failure, a delay of response times by emergency service providers, and has the potential to impact the entire community.

Flooding typically damages the infrastructure of a community, including roads, bridges, power lines and plants. It can take a significant amount of time to fully repair these facilities and infrastructure, depending on the nature of the damage and the resources available that can be dedicated.

A 2016 report estimates that continued underinvestment in infrastructure will cost each U.S. family \$3,400 a year over the next decade. "Poor infrastructure means more congestion on our roadways, broken water lines, power outages and an inability to get our goods to market," said Greg DiLoreto, chair of ASCE's Committee for America's Infrastructure. "From lost time, to inconvenience, to spending money to fix our cars or a flooded basement, it's a very real cost that we're paying."¹¹ The potential impacts can be great. However, because historical occurrences of infrastructure/communications failure have been small incidents the planning team determined the potential impact from this type of incident would be minor.

Summary of Vulnerability

The entire planning area is equally vulnerable to infrastructure and communications failures. This type of failure will occasionally occur to some extent within the next six years. This type of hazard has historically caused minor impacts to the City of Garland. These factors make infrastructure/communications failure a moderate risk for the City of Garland.

¹¹ American Society of Civil Engineers: <http://www.infrastructurereportcard.org/wp-content/uploads/2016/05/2016-FTA-Report-Close-the-Gap.pdf>



Drought

Hazard Description

Drought is a period of time without substantial rainfall that persists from one year to the next. Drought is a normal part of virtually all climatic regions, including areas with high and low average rainfall. Drought is the consequence of anticipated natural precipitation reduction over an extended period of time, usually a season or more in length. Droughts can be classified as meteorological, hydrologic, agricultural and socioeconomic.

- Meteorological drought is an interval of time, generally on the order of months or years, during which the actual moisture supply at a given place consistently falls below the climatically appropriate moisture supply.
- Agricultural drought occurs when there is inadequate soil moisture to meet the needs of a particular crop at a particular time. Agricultural drought usually occurs after or during meteorological drought, but before hydrological drought and can affect livestock and other dry land agricultural operations.
- Hydrological drought refers to the deficiencies in surface and subsurface water supplies. It is measured as stream flow, snow pack, and as lake, reservoir and groundwater levels. There is usually a delay between lack of rain or snow and less measurable water in streams, lakes, and reservoirs. Therefore, hydrological measurement tends to lag behind other drought indicators.
- Socio-economic drought occurs when physical water shortages start to affect the health, well-being and quality of life of people, or when the drought starts to affect the supply and demand of an economic product.

Droughts are one of the most complex natural hazards as it is difficult to determine their precise beginning or end. In addition, droughts can lead to other hazards such as extreme heat and wildfires. Their impact on wildlife and environment is enormous, often killing crops, grazing land, edible plants and trees.

Location

Due to the unpredictable nature of a drought, it is impossible to determine the exact area of their future occurrences. The entire planning area, the City of Garland, is equally subject to drought.

Severity

The Severity of drought periods is measured using the U.S. Drought Monitor (USDM) (Table 5.17). The USDM was developed by Mark Svoboda in 1999 and is produced through a partnership between the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture, and the National Oceanic and Atmospheric Administration. The USDM uses a process that synthesizes multiple indices, outlooks and local impacts, into an assessment that best represents current drought conditions and reflects observed precipitation. The final outcome of each Drought Monitor map is a consensus of federal, state and academic scientists. The maps, which are based on analysis of the data, are released each Thursday at 8:30 a.m. Eastern Time.¹² Historically, the City of Garland has already experienced exceptional (D4) drought conditions. Due to increasing temperatures Garland could fall into the D4 drought category for much longer periods of time.

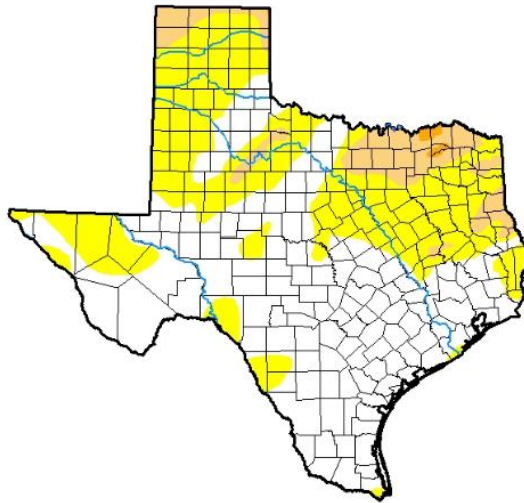
Table 5.17. Drought Severity Classification and Map

Drought Severity	Return Period (years)	Description of Possible Impacts	Drought Monitoring Indices		
			Standardized Precipitation Index (SPI)	NDMC* Drought Category	Palmer Drought Index
Minor Drought	3 to 4	Going into drought; short-term dryness slowing growth of crops or pastures; fire risk above average. Coming out of drought; some lingering water deficits; pastures or crops not fully recovered.	-0.5 to -0.7	D0	-1.0 to -1.9
Moderate Drought	5 to 9	Some damage to crops or pastures; fire risk high; streams, reservoirs, or wells low, some water shortages developing or imminent, voluntary water use restrictions requested.	-0.8 to -1.2	D1	-2.0 to -2.9
Severe Drought	10 to 17	Crop or pasture losses likely; fire risk very high; water shortages common; water restrictions imposed.	-1.3 to -1.5	D2	-3.0 to -3.9
Extreme Drought	18 to 43	Major crop and pasture losses; extreme fire danger; widespread water shortages or restrictions.	-1.6 to -1.9	D3	-4.0 to -4.9
Exceptional Drought	44+	Exceptional and widespread crop and pasture losses; exceptional fire risk; shortages of water in reservoirs, streams, and wells creating water emergencies.	less than -2	D4	-5.0 or less

*NDMC - National Drought Mitigation Center

¹² National Centers for environmental Information: <https://www.ncdc.noaa.gov/temp-and-precip/drought/nadm/overview>

U.S. Drought Monitor Texas



March 28, 2017
(Released Thursday, Mar. 30, 2017)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	55.06	44.94	8.67	0.40	0.00	0.00
Last Week 03-21-2017	53.46	46.54	8.63	0.93	0.00	0.00
3 Months Ago 12-27-2016	75.85	24.15	6.97	1.77	0.04	0.00
Start of Calendar Year 01-03-2017	81.50	18.50	6.29	1.97	0.04	0.00
Start of Water Year 09-27-2016	94.83	5.17	0.62	0.00	0.00	0.00
One Year Ago 03-28-2016	75.16	24.84	2.96	0.00	0.00	0.00

Intensity:
■ D0 Abnormally Dry ■ D3 Extreme Drought
■ D1 Moderate Drought ■ D4 Exceptional Drought
■ D2 Severe Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
Eric Luebbehusen
U.S. Department of Agriculture



<http://droughtmonitor.unl.edu/>

Previous Occurrences

According to the National Climatic Data Center, Dallas County, Texas was in a drought for 28 months during the last 20 years. This consisted of seven separate droughts that continued for multiple months. The longest of which was almost a full year and began in January 2006 through November 2006. Data is not currently available specifically for the City of Garland.

Probability of Future Events

Drought events are not expected to occur every year, but are prevalent enough to be a concern. Previous historical data in Table 5.18 shows that seven drought events (28 months) have occurred within Garland since 1996. Calculations from this data suggests that a drought event will impact Garland 0.4 times a year. Therefore, according to Table 4.3 Hazard Frequency Ranking it is likely a drought will occur in the next three years.

Impact on Community

The impact of a drought within the City of Garland is expected to be minor. This considers the large water supply available to the community. The major damages associated with droughts are typically on crops and livestock. However, Garland is a more urbanized area and contains very little agricultural land or livestock to cause major financial disruptions. For Garland, the financial burden of droughts is on structures. The primary causes of structural damage associated with drought are foundation issues. This is caused by expansive soil, resulting in structural repairs. Since 1996 droughts have caused \$500,000 dollars in structural damage and \$1,345,000 in crop damage within Dallas County.

The Water Conservation Plan and Drought Contingency Response Plan have been put into place in the City of Garland to negate the effects of drought. These consist of a strict seasonal water use schedule that goes into effect within the City between April and October. Details of this plan include: customers may water twice-per-week using an in-ground sprinkler system. November through March watering with sprinkler systems are limited to one day a week. Sprinkler system use is not allowed between 10 a.m. and 6 p.m. to prevent excessive evaporation. Newly planted landscape and/or sod requiring water more than 1 time a week, must request a variance. In stage 3 of a drought, no lawn watering at any time is allowed within the City. These actions make the community more resilient during drought events.

Table 5.18. Drought Historical Data

COUNTY	DATE	EVENT TYPE	PROPERTY DAMAGE	CROP DAMAGE
DALLAS	5/1/1996	Drought	0	0
DALLAS	8/1/1996	Drought	0	0
DALLAS	7/1/1998	Drought	0	0
DALLAS	8/1/2000	Drought	0	0
DALLAS	9/1/2000	Drought	0	0
DALLAS	6/1/2005	Drought	0	0
DALLAS	7/1/2005	Drought	0	0
DALLAS	8/1/2005	Drought	0	0
DALLAS	9/1/2005	Drought	0	0
DALLAS	10/1/2005	Drought	0	0
DALLAS	11/1/2005	Drought	0	0
DALLAS	12/1/2005	Drought	0	0
DALLAS	1/1/2006	Drought	0	0
DALLAS	2/1/2006	Drought	0	0
DALLAS	3/1/2006	Drought	0	0
DALLAS	4/1/2006	Drought	0	0
DALLAS	5/1/2006	Drought	0	0
DALLAS	6/6/2006	Drought	0	0
DALLAS	7/1/2006	Drought	0	0
DALLAS	8/1/2006	Drought	0	0
DALLAS	9/1/2006	Drought	0	0
DALLAS	10/1/2006	Drought	500,000	500,000
DALLAS	11/1/2006	Drought	0	800,000
DALLAS	4/1/2011	Drought	0	5,000
DALLAS	8/1/2011	Drought	0	10,000
DALLAS	9/1/2011	Drought	0	25,000
DALLAS	10/1/2011	Drought	0	5,000
DALLAS	8/7/2012	Drought	0	0

Summary of Vulnerability

The entire planning area is equally vulnerable to drought. Drought is of moderate risk to the community. Although it is a likely event, it has minor impact on the City due to the low agricultural industry and ongoing mitigation actions taken by the City and residents. While there is no data to currently suggest an effect on any population, drought often coincides with Extreme Heat events, which impact elderly, low-income, and transient populations. The hazard does not have an effect on structures or properties.



Extreme Heat

Hazard Description

Extreme heat is characterized by a combination of exceptionally high temperatures and humidity. When these conditions persist over a period of time, it is called a heat wave. Although heat can damage buildings and facilities, it presents a more significant threat to the safety and welfare of residents.

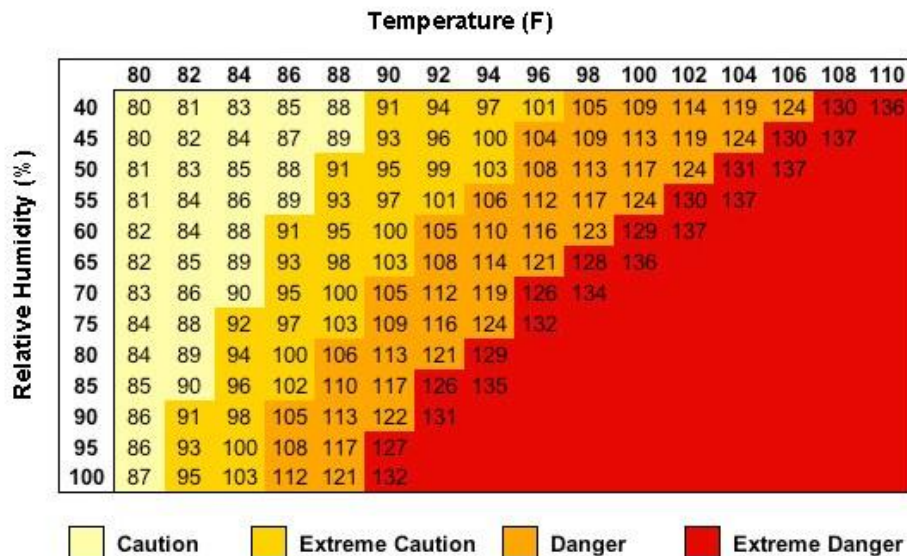
Location

Due to the unpredictable nature of extreme heat, it is impossible to determine the exact area of their future occurrences. The entire planning area, the City of Garland, is equally subject to extreme heat.

Severity

The danger of extreme heat is gauged by using the Extreme Heat Index (Figure 5.15). The Heat Index, as seen below, displays the relative danger in regards to Air Temperature and Relative Humidity. The record high temperature was recorded in Garland at 112° in 1980. With increasing temperatures it is expected that by the end of this century, the average number of days where temperatures are above 95° will likely increase by as much as 14 times. This means that instead of having nine days per year of extreme heat at temperatures above 95, as we currently do, we can expect future number of days of extreme heat temperatures above 95 to rise as many as 123 days per year.

Figure 5-15. Extreme Heat Index



Source: http://www.nc-climate.ncsu.edu/images/climate/heat_index.jpg

Previous Occurrences

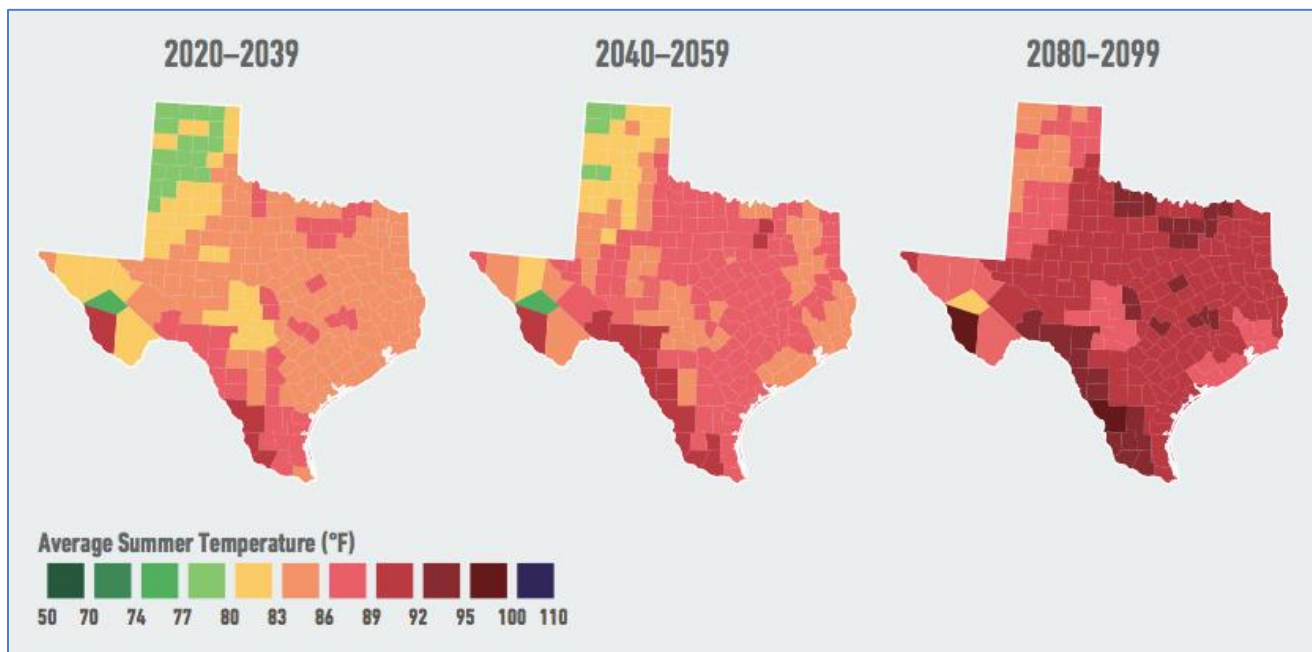
According to the National Climatic Data Center, 27 extreme heat events have been reported in Dallas County, Texas between 7/1/1996 and 12/31/2016.

Probability of Future Events

Temperatures remain warm throughout the summer months and are relatively warmer throughout the year than other areas of the country. The occurrence of extreme heat events is likely within the area given the humidity levels and high summer temperatures. Previous historical data in Table 5.16 shows 27 extreme heat events have occurred in Dallas County since 1996. Data is not currently available specifically for the City of Garland. Calculations from this data suggest that an extreme heat event will impact Dallas County 1.4 times a year. Therefore, according to Table 4.3 Hazard Frequency Ranking it is highly likely for an extreme heat event to occur within the next year.

According to the Southeast Report released by the Risky Business Project, average temperatures are likely to increase across Texas due to climate change. The prospectus states dangerous levels of extreme heat are projected to threaten lives, dramatically reduce labor productivity and increase energy demand and cost. The study predicts over the next 5 to 25 years extreme heat will likely cause as many as 2,570 additional deaths per year.

Figure 5.16. Future Average Summer Temperatures in Texas



Source: American Climate Prospectus

Impact on Community

The major human risks associated with extreme heat include: sunburn, dehydration, heatstroke, heat exhaustion, heat syncope, heat cramps and in severe cases death. The most at risk populations are outdoor laborers, the elderly, children, and the disabled who frequently live on low or fixed incomes and do not run air conditioning on a regular basis. These populations are sometimes isolated, with no immediate family or friends to look out for their well-being. The effects of extreme heat are always more pronounced in urbanized areas than in rural areas. According to the Journal of Applied Meteorology and Climatology, the problem is exacerbated in Garland by what is known as the heat island effect. The concrete and metal infrastructure absorbs radiant heat energy from the sun during the day and radiates that heat energy during the night. This cyclical process essentially “traps” the heat in the urbanized area and makes it as much as 5.4°C warmer.¹³ Since 1996 there have been 85 fatalities and 704 injuries caused by extreme heat in Dallas County. The Planning Team has determined that because of available cooling centers and programs in place to mitigate extreme heat the impacts of this hazard are limited.

5.16 Extreme Heat Historical Data

COUNTY	DATE	EVENT TYPE	DEATHS	INJURIES
DALLAS	8/13/2007	Excessive Heat	1	0
DALLAS	7/23/2008	Excessive Heat	1	0
DALLAS	7/28/2008	Excessive Heat	2	0
DALLAS	8/1/2008	Excessive Heat	4	0
DALLAS	8/1/2011	Excessive Heat	4	130
DALLAS	7/20/2012	Excessive Heat	1	0
DALLAS	5/17/2013	Excessive Heat	1	0
DALLAS	7/18/2015	Excessive Heat	1	0
DALLAS	7/1/1996	Heat	2	0
DALLAS	7/19/1997	Heat	2	0
DALLAS	6/1/1998	Heat	1	0
DALLAS	7/1/1998	Heat	23	0
DALLAS	8/3/1998	Heat	5	0
DALLAS	8/1/1999	Heat	3	0
DALLAS	7/1/2000	Heat	8	0
DALLAS	8/1/2000	Heat	3	0
DALLAS	9/1/2000	Heat	4	0
DALLAS	7/14/2006	Heat	1	0
DALLAS	7/27/2006	Heat	1	0
DALLAS	8/10/2006	Heat	0	0
DALLAS	6/23/2009	Heat	1	0
DALLAS	4/29/2010	Heat	0	0
DALLAS	6/20/2010	Heat	1	0
DALLAS	6/13/2011	Heat	3	140
DALLAS	7/1/2011	Heat	9	223
DALLAS	8/6/2011	Heat	3	210
DALLAS	6/15/2016	Heat	0	1

National Climatic Data Center

¹³ <http://www.uta.edu/faculty/awinguth/Publications/publications/2013/JAMC-D-12-0195.pdf>

Summary of Vulnerability

The entire planning area is equally vulnerable to extreme heat events. For now, extreme heat is considered a low risk to the City of Garland. Because extreme heat is a common occurrence, residents are prepared and practiced in mitigating damage. The City of Garland also has many faith based communities that offer cooling centers during these times of extreme heat. Although heat events are very common to the area, they cause little damage to structures. The main concern with an extreme heat event is that it leads to other hazards, such as drought. The City of Garland is accustomed to long periods of hot weather, as local summer temperatures often reach one hundred degrees or more. Structure damage from extreme heat is not likely. Garland has a hot and humid climate. Summers are hot, with temperatures approaching those of desert and semi-desert locations of similar latitude. The most vulnerable populations to extreme heat include the elderly, transients, and those in homes without adequate cooling capabilities.



Power Outage

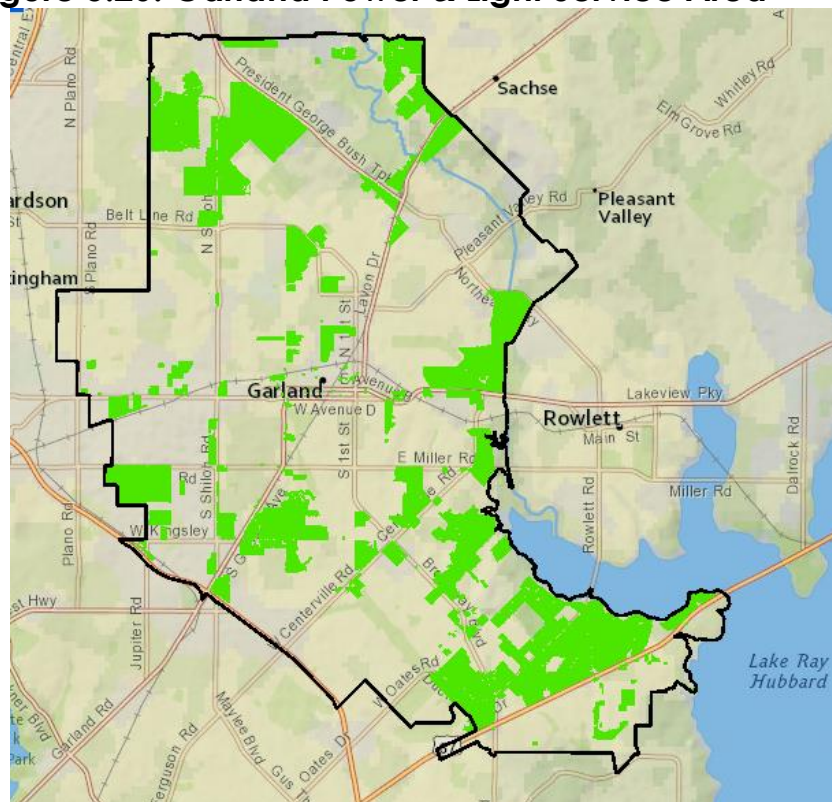
Hazard Description

Power outage is defined as any interruption or loss of electrical service caused by disruption of power transmission which may be the result of an accident, sabotage, natural hazards or equipment failure. A significant power failure is defined as any incident of a long duration, which would require the City of Garland to provide food, water, heating, cooling and/or shelter.

Location

Power outages in the City of Garand are usually localized and are normally the result of a natural hazard involving high winds. The entire planning area, the City of Garland, is equally subject to power outages. However, the City of Garland has their own power provider, Garland Power & Light (GP&L), which serves approximately 85% of Garland. The other 15% of residents are served by Oncor. Figure 5.26 below shows the areas in Garland that are not in the GP&L service area. When outages do occur, areas that are GP&L customers typically have power restored faster than those with other providers. Table 5.27 illustrates the American Public Power Association average interruption duration as 62.53 minutes compared to the GP&L average interruption of 15.1 minutes during 2016.

Figure 5.26. Garland Power & Light Service Area



Garland Power & Light

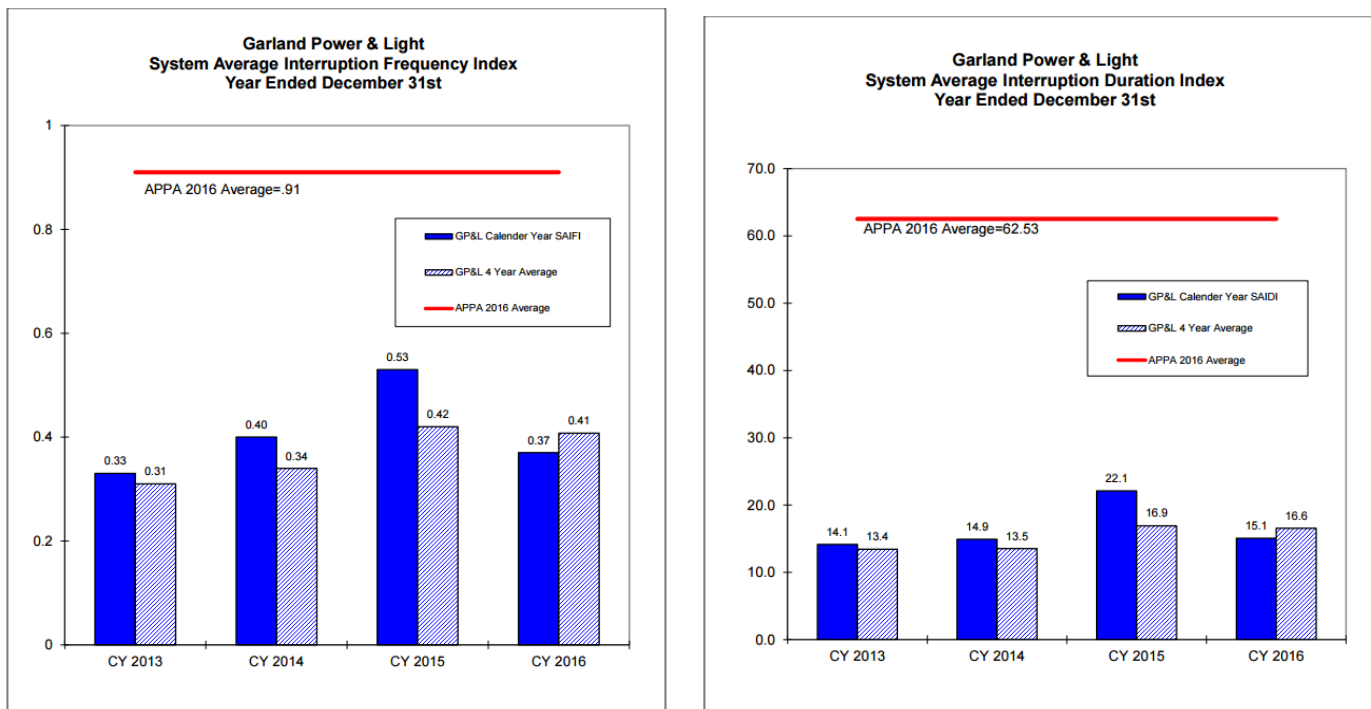
Non-GP&L Service Area



Severity

Power outages can range in duration and also in the severity of impacts, from minor loss of communication systems at a facility, to loss of water and electricity. Power outages and interruptions usually occur because of severe thunderstorms, high winds, tornado, ice accumulation on lines, flooding or heavy demand on the electrical grid. Outages can also be caused by faulty equipment, human error and animals. Individuals who rely on power for health and/or life safety, such as those on life support systems, could be placed in jeopardy in the event of a power outage.

Figure 5.27



Previous Occurrences

On December 26, 2016, an EF 4 tornado impacted the City of Garland. This tornado destroyed families, homes, vehicles and left about 3,000 residents without power. The tornado knocked down an estimated 40 power poles along the I-30 service road. In October 2014 severe storms left thousands without power causing several school districts to cancel classes. Oncor reported more than 113,000 North Texas electricity customers without service. 65,977 residents were impacted in Dallas County.¹⁴

Probability of Future Events

According to Garland Power & Light, an average of 0.37 interruptions occur annually per customer for a duration of 15 minutes.¹⁵ There are number of hazards that occur often in Garland that result in power outages. Therefore, according to Table 4.3 Hazard Frequency Ranking it is highly likely for a power outage occur within the next year.

¹⁴ NBCDFW - <http://www.nbcdfw.com/weather/stories/Severe-Storms-Cause-Power-Outages-Thursday-277944491.html>

¹⁵ GP&L Website <http://www.gpltexas.org/outage-center/service-reliability>
<http://www.gpltexas.org/home/showdocument?id=90>

Impact on Community

The United States Annual Blackout Tracker Report of 2014 ranked Texas as having the third most outages in the U.S. Between 2008 and 2014, 335 outages occurred that affected 818,506 people. Because power outages average a short duration and Garland has its own power provider, the overall impact to the community is limited. The greatest impact to the City of Garland occurs during summer outages when residents are unable to use air conditioning. This cascading event may then cause impacts from extreme heat as previously described

Summary of Vulnerability

The entire planning area is equally vulnerable to power outages. The probability of a power outage less than half an hour occurring in Garland within the next year is highly likely and would cause limited impacts to the community. This high frequency low impact hazard is a low risk for the City of Garland. As the days get warmer, temperatures rise as discussed in the extreme heat section. Demand for energy on the grid will increase, therefore increasing the vulnerability of the power providers in Garland.



Expansive Soils

Hazard Description

Expansive soils contain minerals such as smectite clays that are capable of absorbing water. When they absorb water, they increase in volume. The more water they absorb, the more their volume increases. Expansions of ten percent or more are not uncommon. This change in volume can exert enough force on a building or other structure to cause damage. Expansive soils will also shrink when they dry out. This shrinkage can remove support from buildings or other structures, and result in damaging subsidence. Fissures in the soil can also develop. These fissures can facilitate the deep penetration of water when moist conditions or runoff occurs. This produces a cycle of shrinkage and swelling that places repetitive stress on structures.¹⁶ Soils with this shrink-swell capacity fall under the soil order of Vertisols which is how this hazard is referred to by the United States Department of Agriculture. Further naming of the soil in Garland is Blackland Prairie with characteristics of very high amounts of clay.

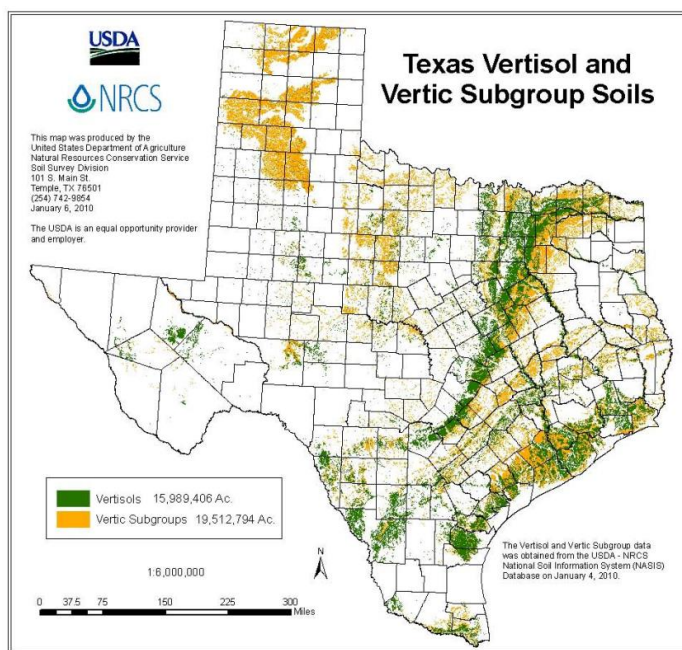
Location

The entire planning area, the City of Garland, is subject to expansive soils.

Severity

Utility poles and roadways are often the victims of expansive soils, which causes over 2.3 billion dollars in damage each year nationwide. Figure 5.32, below depicts the areas where expansive soil is prevalent. Vertisol soil is the makeup in Garland. According to the U. S. Department of Agriculture Vertisol soil consists of at least 30% clay.¹⁷ Historically, expansive soil has damaged infrastructure and structure foundations in Garland. Due to increasing temperatures it is anticipated that damage from expansive soils continue to rise in the future.

Figure 5.32
USDA 2010



¹⁶ Geology.com: <http://geology.com/articles/expansive-soil.shtml>

¹⁷ USDA, Keys to Soil Taxonomy: https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051241.pdf

Previous Occurrences

Expansive soils is a slow onset hazard that has caused gradual damage to City of Garland infrastructure and foundations. It is difficult to document the direct effects of expansive soil as most damage is cumulative. Within the past five years cumulative damage has caused the Streets Department to fund the seven street rehab and reconstruction projects below.

Garland Streets Department Projects

Broadway Blvd. - Street Rehabilitation
Commonwealth Dr. - Street Reconstruction
Firewheel Pkwy. - Street Rehabilitation
Nash St. - Street Reconstruction
Sunnybrook Ln. - Street Reconstruction
Vera Cruz Dr. - Asphalt Rehab/Overlay
E. Vista Dr. - Street Reconstruction

Probability of Future Events

Expansive soils are a continuous hazard for the city. Therefore, according to Table 4.3 Hazard Frequency Ranking it is highly likely that expansive soils will occur in the next year. Predictions are not reliable because the location and time when water is available to the soil cannot be easily foreseen. Most associated structural distress can occur a few years after construction, but the effects may also not be observed for many years until some change occurs in the foundation conditions.

Impact on Community

As development and city build-out occurs, the unforeseen consequences of dense construction activities on shrinking and swelling soil are constantly occurring. Soil expansion poses risks for existing and future infrastructure and homes. Transportation, utility public works, including electrical, communications and water infrastructure are all impacted, as well as residential housing. Many structural foundations are susceptible to damage by slow, continuous soil movements. This greatly impacts residents. Poor foundations lessen a family’s greatest asset and can become a financial burden. Poor structural integrity of a home also poses a life threatening risk, especially when combined with other hazards like tornadoes, floods and earthquakes. The City of Garland and its residents have endured expansive soils for quite some time. Residents, however can take mitigating actions by simply watering the foundation of their homes during droughts. The severity of impact to the community from expansive soil is limited.

Summary of Vulnerability

The entire planning area is equally vulnerable to expansive soils. All built environment is vulnerable to expansive soils, especially buildings and overpasses. There is 1 police station, 11 fire stations, 1 hospital, 4 DART Transit Centers, and 72 GSD schools at risk of impact from expansive soils. Although the hazard is constantly occurring, the impact is limited therefore the planning team considers expansive soil to be a low risk hazard.



Hail

Hazard Description

Severe thunderstorms produce precipitation in the form of irregular pellets or balls of ice more than 5 mm in diameter, falling from a cumulonimbus cloud. These balls of irregularly shaped ice fall with rain. Early in the developmental stages of a hailstorm, ice crystals form within a low-pressure front due to warm air rising rapidly into the upper atmosphere and the subsequent cooling of the air mass. Frozen droplets gradually accumulate on the ice crystals until they have developed sufficient weight and fall as precipitation.

The size of hailstones is a direct correlation of the severity of impact and size of the storm. For example, penny size hail may cause damage to crops and vegetation. Ping pong ball size hail will cause damage to windows in homes and vehicles. High velocity updraft winds are required to keep hail in suspension in thunderclouds. The strength of the updraft is a function of the intensity of heating at the Earth's surface. Higher temperature gradients relative to elevations above the surface result in increased suspension time and hailstone size.

Location

Due to the unpredictable nature of hailstorms, it is impossible to determine the exact area of their future occurrences. The City of Garland, is equally subject to hailstorms.

Severity

Table 5.13 shows the Combined National Ocean and Atmospheric Administration's and the Tornado and Storm Research Organization's Hailstorm Intensity Scales. The Hailstorm Intensity Scale is representative of the damage from hail storms this community has experienced in the past. The Hailstorm Intensity Scale allows planners to gauge past damage and mitigate for future expected damage. In the last five years the worst hail that occurred was in 2016 when a storm produced hail 4.25 inches in diameter. That hail caused major damage. It is expected that that size or larger hail impact Garland in the future.

**Table 5.13
Combined NOAA/TORRO Hailstorm Intensity Scales**

Size Code	Intensity Category	Hail Diameter (inches)	Approximate Size	Typical Damage Impacts
H0	Hard Hail	.25	Pea	No damage
H1	Potentially Damaging	.50	Moth-ball	Slight damage to plants, crops
H2	Potentially Damaging	.75	Penny	Significant damage to fruit, crops, vegetation
H3	Severe	1.00	Quarter	Severe damage to fruit and crops, damage to glass and plastic structures, paint and
H4	Severe	1.5	Ping Pong Ball	Widespread glass damage, vehicle bodywork damage
H5	Destructive	2.0	Golf Ball	Wholesale destruction of glass, damage to tiled roofs, significant risk of injuries
H6	Destructive	2.25	Lime	Aircraft bodywork dented, brick walls pitted
H7	Very destructive	2.5	Tennis ball	Severe roof damage, risk of serious injuries
H8	Very destructive	2.75	Baseball	Severe damage to aircraft bodywork
H9	Super Hailstorms	3.8	Softball	Extensive structural damage. Risk of severe or even fatal injuries to persons caught in the open
H10	Super Hailstorms	4.5	Grapefruit	Extensive structural damage. Risk of severe or even fatal injuries to persons caught in the

North Central Texas Council of Governments (modified)

Previous Occurrences

On April 11, 2015 quarter-sized to softball-sized hail was reported in Collin and Rockwall counties. Wylie was among the hardest-hit areas with reports of softball sized hail (4.25-inch), reported by the National Weather Service. Classes were canceled for all Wylie ISD schools. The number of storm damage calls to Wylie 911 overwhelmed the system, tennis ball-sized hail flew through windows and the area had wind gusts up to 60 mph.

This major event is significant to the City of Garland as the impacted area is only a few miles away from Garland. This hail event alone caused \$300 million dollars in property damage. According to the Insurance Council of Texas, insured losses from Texas hail claims for 2016 are about \$4 billion dollars.¹⁸ Garland has recorded 20 hail events since 1994 and reported 3.75 inch hail on February 25, 2000.

¹⁸ Star-Telegram: <http://www.star-telegram.com/news/local/community/fort-worth/article138903113.html>

Dallas News: <http://www.dallasnews.com/news/news/2016/04/11/baseball-size-hail-expected-as-severe-thunderstorm-moves-through-collin-denton-counties>

Probability of Future Events

The possibility of a hail occurrence is highly likely to happen every year based on historical data, although the severity of impacts will vary. Hail events are common in Garland, as the North Central Texas region is frequented by severe thunderstorms in the spring through summer months. Previous historical data Table 5.14 shows 20 hail events have occurred within Garland since 1994. Calculations from this data suggests that a hail event will impact Garland 0.9 times a year. Therefore, according to Table 4.3 Hazard Frequency Ranking it is highly likely for a hail event to occur within the next year.

Impact on Community

The severity of impact from hail in the City of Garland would be limited relative to their frequent occurrence. Property damage would be the biggest impact to the community. Broken windows, damaged vehicles, and roofing are all subject to damage from a severe hailstorm. According to the National Climatic Data Center, 20 hail events have been reported in Garland, Texas between 1/1/1994 and 12/31/2015. Hail has caused an estimated \$10,005,000 dollars in property damage. The City is located in a very urbanized region making the loss of crops a minimal concern.

Table 5.14. Hail Historical Data

TOWN	DATE	EVENT TYPE	SIZE	DEATHS	PROPERTY DAMAGE
GARLAND	5/2/1994	Hail	0.75 IN.	0	0
GARLAND	8/7/1994	Hail	0.75 in.	0	0
GARLAND	10/21/1994	Hail	2.00 in.	0	0
GARLAND	11/3/1994	Hail	0.75 in.	0	0
GARLAND	3/25/1995	Hail	1.75 in.	0	10,000,000
GARLAND	4/12/1996	Hail	1.00 in.	0	0
GARLAND	5/28/1996	Hail	1.50 in.	0	0
GARLAND	6/15/1996	Hail	0.75 in.	0	0
GARLAND	1/21/1998	Hail	1.00 in.	0	0
GARLAND	4/8/1998	Hail	0.75 in.	0	0
GARLAND	5/2/1998	Hail	2.00 in.	0	0
GARLAND	2/25/2000	Hail	3.75 in.	0	0
GARLAND	6/29/2001	Hail	2.00 in.	0	0
GARLAND	7/12/2002	Hail	0.75 in.	0	0
GARLAND	5/24/2003	Hail	0.75 in.	0	0
GARLAND	6/5/2004	Hail	1.00 in.	0	0
GARLAND	4/5/2005	Hail	1.50 in.	0	0
GARLAND	2/5/2008	Hail	1.00 in.	0	0
GARLAND	7/19/2009	Hail	1.75 in.	0	5,000
GARLAND	7/19/2009	Hail	1.00 in.	0	0

National Climatic Data Center

Summary of Vulnerability

The entire planning area is equally vulnerable to hail events. If tennis ball size hail (2.5 inches) were to occur it would cause major impacts to the community, causing severe roof damage and serious risk of injuries. However, that type of impact is rare compared to how often hail occurs in the area. The Planning Team has determined that a hail incident for the City of Garland is low risk and has a limited impact due to the small hail size that usually occurs in Garland. Large hail that caused major damage has only occurred once since 1991. All roofing structures, vehicles and exposed equipment are the most vulnerable to hail. This includes Garland's 1 police station, 11 fire stations, 1 hospital, 4 DART Transit Centers, and 72 GISD schools at risk of impact from hail.



Erosion

Hazard Description

Erosion involves the wearing away of rock and soil found along the river bed and banks. Erosion also involves the breaking down of the rock particles being carried downstream by the river. Vertical erosion is the downward erosion which deepens the channel, and lateral erosion is sideward erosion which widens the channel.

There are four ways a river can erode a bed and bank:

- Hydraulic action – the force of water flow that breaks rock and drags it away from the bed and the banks of the river.
- Corrosion/abrasion – the grinding of the rock fragments carried by the river against the banks and bed of the channel. This grinding action widens and deepens the channel.
- Attrition – the knocking of rock fragments in the water against each other. The fragments are broken into smaller, smoother pebbles.
- Solution/corrosion – the process of the water reacts chemically with soluble minerals in the rocks and dissolve them.

Water erosion is not the only type of erosion impacting soil in the area; wind erosion will also be considered in this section.

Location

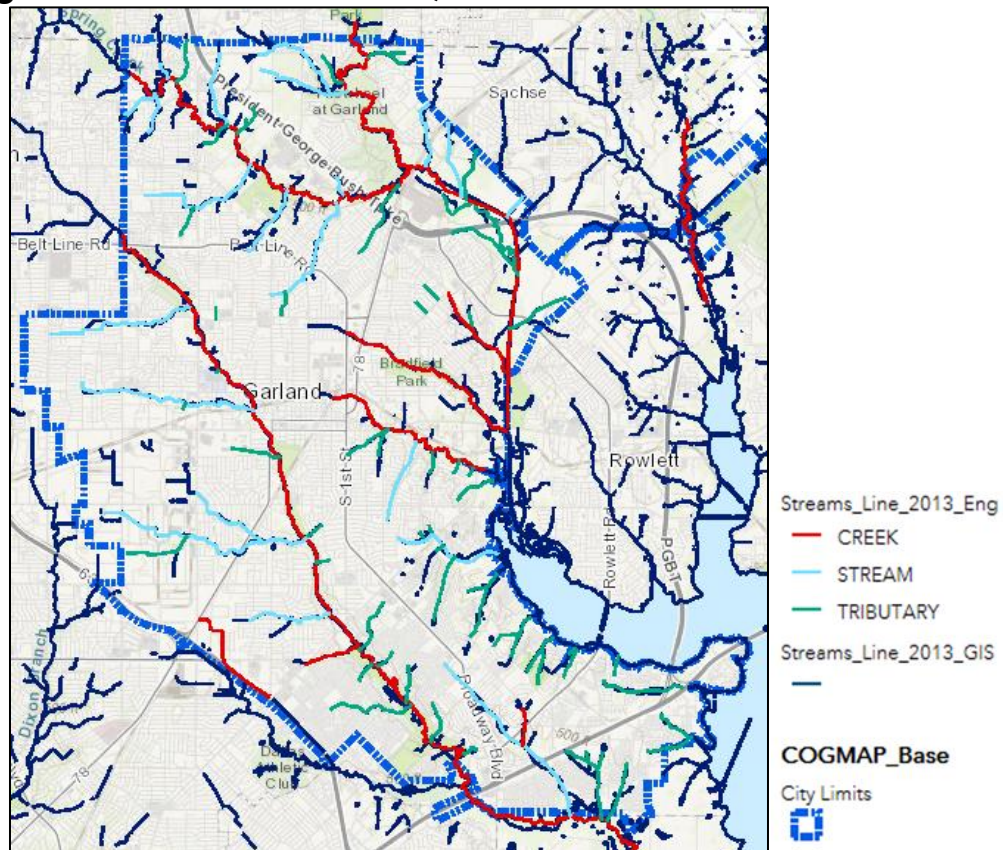
All of the creeks, streams and tributaries in the City of Garland are equally subject to erosion. The planning area also includes about eight miles of lakeshore that is subject to erosion. Duck Creek has had the greatest water erosion problems in the City of Garland. Figure 5.33 shows the location of the areas that may experience erosion. The droughts in Garland increase the effects of wind erosion on the entire planning area as well. When droughts occur there is less vegetation to hold land in place.

Severity

Of the 32 million acres of cropland in Texas, more than 12.8 million acres or 40 percent are classified as highly erodible. According to the Texas Environmental Almanac, Texas soil erosion rates is one of the eight highest in the country.¹⁹ Garland floods have scoured the silt banks near the concrete pedestrian and bike path at Duck Creek Greenbelt Park. In this area and throughout Garland the river banks erode approximately 2 inches a year. Creek bank erosion, creates a loss of park land and facilities leading to loss of park infrastructure. The potential for additional erosion is great because of increasing temperatures that will in turn cause longer periods of drought in Garland. This hazard threatens the Lake Ray Hubbard shoreline and creeks throughout the City. We expect to see the same amount of future erosion annually and increased erosion during flood events.

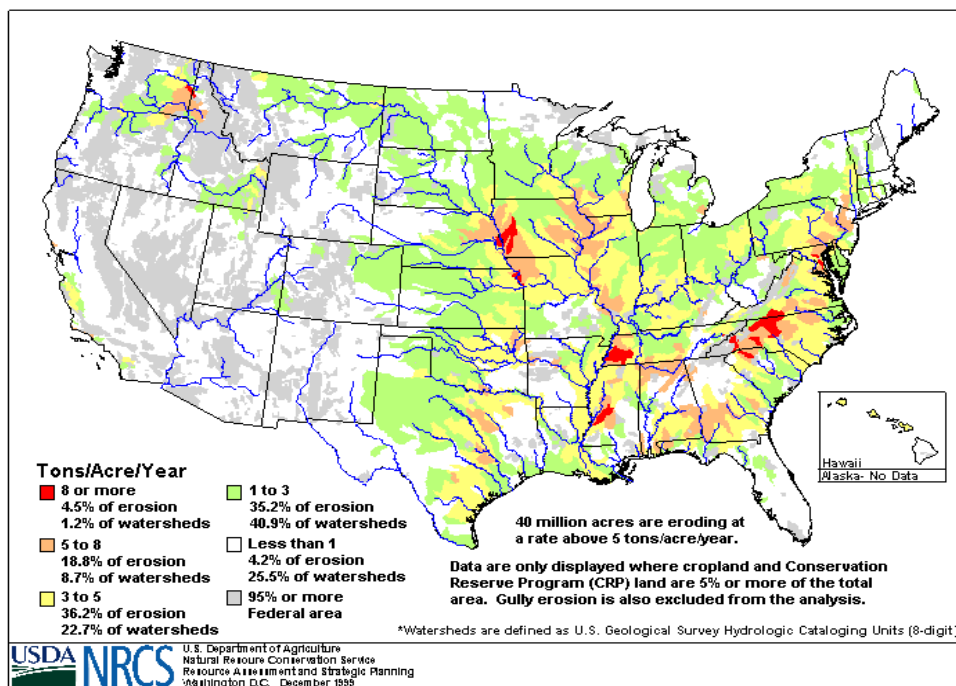
¹⁹ Texas Environmental Almanac: <http://www.texascenter.org/almanac/Land/SOILCH5P1.HTML>

Figure 5.33. Garland Creeks, Streams and Tributaries



Garland GIS

Figure 5.34. Average Annual Soil Erosion by Wind and Water



Previous Occurrences

Erosion is a slow process and is not sudden onset like many other hazards. Documentation of historical data is difficult to obtain because of this slow process. Each year the following areas have eroded by a minimum of 2 inches:

- Windsurf Bay Park
- Duck Creek
- Meadowcreek Branch Greenbelt

Probability of Future Events

Erosion is a continuous hazard for the city. Therefore, according to Table 4.3 Hazard Frequency Ranking it is highly likely that erosion will occur in the next year. Predictions are not reliable because the different variables that exacerbate erosion cannot be easily foreseen.

Impact on Community

Erosion can impact many different areas of a community. Erosion can cause city parks, residents and business to lose property, and even structures. Another problem that can arise from erosion is sedimentation. The Texas Environmental Almanac states sedimentation is usually the end result of the erosion process. When a soil particle is detached and transported by water to a new site of deposit, it is referred to as sediment. The soil particle might be temporarily deposited several times before it reaches its end destination. Sediment can fill reservoirs, clog waterways, reduce recreational use of waters, and increase operating costs of water-treatment facilities. Erosion also loosens soils and forms dust, leading to allergies, crop loss, desertification, and the spread of noxious weeds. There are a wide range of impacts that erosion may have, however the severity of impact to the community is limited. Locally, land is eroding, shrinking outdoor recreation space and damaging paved sidewalks and facilities within the City of Garland at Windsurf Bay Park, Duck Creek and the Greenbelt. In addition drainage systems throughout Garland are being damaged either from land eroding and bypassing drainage routes or by depositing soil rendering drainage useless.

Summary of Vulnerability

All of the creeks, streams and tributaries in the City of Garland are equally subject to erosion. Although the hazard is constantly occurring, the impact is limited therefore the planning team considers erosion to be a low risk hazard. The land and built environment most vulnerable to erosion within Garland are in Windsurf Bay Park, Duck Creek and Meadowcreek Branch Greenbelt.



6. Hazard Mitigation Strategy

Local Hazard Mitigation Goals and Objectives

The City of Garland has identified mitigation goals to help direct mitigation planning efforts within the community. These mitigation goals have changed based on the updated Hazard Assessment, Community Impact and Risk Assessment and Capabilities Assessment. The Hazard Mitigation Action Plan now includes additional hazards than the previously FEMA approved plan contained. These goals identify areas to which specific mitigation actions should be directed. They were developed to reduce or avoid vulnerabilities to identified hazards. Implementation of the following goals and objectives will help the community to reduce or eliminate the loss of life and property from the identified hazards.

Goal 1: *Protect residents from the impacts of natural, technological and man-made disasters.*

Objective 1.1 - Reduce or eliminate hazards that may cause injuries, loss of life or severe risk.

Goal 2: *Protect property, new and existing structures, from the impacts of natural, technological, and man-made disasters.*

Objective 2.1 - Reduce or eliminate hazards that cause property damage/repetitive loss.

Objective 2.2 - Ensure compliance with the National Flood Insurance Program.

Objective 2.3 - Implement training activities and regulations that provide the community with a more hazard resistant infrastructure.

Goal 3: *Enhance public education, awareness and support for hazard mitigation.*

Objective 3.1 – Provide guidance to local businesses to lessen the economic impact when hazards occur.

Objective 3.2 - Provide strategies for the public to apply mitigation within their own household.

Objective 3.3 - Encourage public involvement in the emergency management process.

Objective 3.4 - Identify agencies, personnel and resources available or needed to implement pre-disaster mitigation activities and initiatives.

Objective 3.5 - Continue to assess and understand hazards to the community.

Mitigation Action Report

Table 6.1 is a summary of project progress for hazard mitigation actions discussed in Garland's previous FEMA approved HazMAP plan. The HazMAP's previous identified hazards assisted departments to isolate projects and funding to focus on for the past five years. As a result of the 2012 HazMAP and hazards identified within that plan the Building Inspection department integrated hazard mitigation through the adoption of additional International Building Codes. Another result of the 2012 HazMAP was the creation of the Drought Contingency Plan.

Both the Drought Contingency Plan, and adoption of additional International Building Codes went through the City Council approval process. Larger mitigation actions requiring substantial resources, large changes in City services or department activities such as these were first approved through Department Directors, then approved by the Managing Director of that department, sent for approval by the City Manager where it was determined to add the Drought contingency Plan and International Building Code adoption as an agenda item for consideration. On these two separate occasions information was sent to council members before the meeting which outlined the plans, implementation methods and results of the actions. One the day of the City Council Meeting, Department Directors presented plans, a motion was made to adopt the Drought contingency Plan and new building codes, seconded, and the motion carried. After final approval the Department Directors and Managers began the mitigation action implementation process. During this process the Office of Emergency Management played a support role to Department Directors and City Management.

Table 6.1. Mitigation Action Report

Mitigation Action	Description	Status
Building Code Monitoring and Assessment	Mitigate wind related hazards by adopting and implementing new building codes to enhance tornado and wind resistance of structures within the community	Complete - The 2015 series of the International Codes was adopted. This code increased the design wind speed from 90 to 115 mph for structures. This design change will produce more resilient buildings.
Increased Flood Hazard Warning Capabilities	• Installation of approximately eight flood sirens and sensors at strategic locations along Duck Creek. • Use of Volunteers emergency response teams.	Canceled – In lieu of this mitigation action the City installed 8 flood gates in the flood prone area. The Streets Department, Fire Department and Police Department can close these gates. Map in Appendix G. • The City of Garland also purchased an emergency notification system, CodeRed, which is utilized for public warning.
Stream 2C3 and 2C4 Channel Improvements	Improvements/widening of the channels of streams 2C3 and 2C4 in Garland to reduce flooding risks to residents and businesses along said streams.	Project Delayed – Funding and property acquisition obstacles. This project also has a BC ratio <1.
Country Club Estates Storm Sewer Improvements	Storm sewer and channel improvements to increase their drainage capacity	Project Delayed – Funding obstacles. Possible future Capital Improvement Program project. This project also has a BC ratio <1.
Keen Branch Channel Improvements	Channelization improvements to Keen Branch	Project Delayed - This project also has a BC ratio <1.
Fleet Services Continuity of Operations	•Acquisition of generators at the two main City of Garland fuel sources, 2343 Forest Lane and Gasoline Alley, and a new mobile fuel truck for emergency operations •Generators and a new fuel truck would ensure continuity of operations in a winter storm event as fuel would remain available to City vehicles	Project Progress - Two surplus generators have been earmarked for reinstallation at the two major (City) fuel sites. Project Delayed – Funding obstacles
Recreation Center Generators	•Attainment of generators at all City recreation centers in order to provide more resilient warming centers in winter weather conditions •Power loss is often one of the results of winter storms; generators would maintain energy for these facilities, which the City uses as local warming centers and community shelters	Project Delayed – Funding obstacles and communication between departments.

Misting Stations at Local Recreation Centers	Purchase and installation of six outdoor misting stations, one for each community recreation center.	Project Canceled – Cooling stations predominately opened through non-profit organizations.
Rapid First Response Communications	Outsource mission-critical paging to a company that utilizes more advanced technology that focuses on rapid and accurate delivery of text messages during emergency operations	Project Canceled - Due to the ease of switching page messages to personnel cell phones.
West Pressure Plane Improvements	• A phased approach to add additional capacity to the West Pressure Plane of the water distribution system. • Phase one - the expansion and rehabilitation of Wallace Pump Station and construction of a new 24-inch transmission line. •Phase two – construction of a 2.5-million-gallon elevated storage in the southwest portion of Garland.	Project on Schedule - The 3.5 MG ground storage tank has been removed from this project.
East Zone Water Tower	Design and construction of a new elevated water storage tank and associated piping in the East Pressure Plane. This will provide peak-hour pressures to the southern portion of Garland and enhance off-peak service and fire protection.	Project Delayed - A new water distribution system study is being conducted to determine size, location and phasing with additional projects.
"Texas Individual Saferoom Rebate Program"	The "Texas Individual Saferoom Rebate Program" will reimburse a homeowner or developer for ½ of the cost to install an individual saferoom in an existing or planned home, up to a cap of \$3,000. Individuals may not apply directly to the State; their city or county must apply for funds on their behalf.	Project Delayed – Grant funding and staffing have delayed this project. This program is also offered through the North Central Texas Council of Governments.
All Hazards National Weather Radio	Distribute All Hazards Nation Weather Service Radios to all city facilities	Project Complete – All City facilities including recreation centers and libraries were given a weather radio. This was also part of the National Weather Service "Storm Ready" certification.
Storm Spotter Training	Increase the number of storm spotters in the community and the training they receive by hosting an annual SKYWARN Spotter Training Conference.	Project Complete and Ongoing – SKYWARN has been held annually and will continue. Over 300 participants each year are trained by the National Weather Service to be storm spotters.
Extreme Heat Preparedness Campaign	Implement an aggressive public awareness campaign concerning extreme heat and how to mitigate heat within the household.	Project Canceled – All hazards preparedness campaigns are preferred. When staffing becomes available, specific preparedness campaigns will be examined again.
Advanced Hazardous Materials Training	Emergency Management staff attend training through the Pipeline Safety Office of Training and Qualifications, in order to develop more thorough plans for hazardous materials	Project Complete
Hazardous Materials Flood Protection	Identify hazardous materials facilities that exist in the floodplain and encourage mitigation/protection measures Help facilities to prepare plans for flood events	Project Complete



7. Hazard Mitigation Actions

The City of Garland Hazard Mitigation Planning Team identified the following mitigation actions in order to reduce the impact of local hazards. Each mitigation action was developed in conjunction with local mitigation goals and objectives. The mitigation actions identified below are organized by hazard. The actions are described along with the benefits of each action, the estimated cost, the organization responsible for completing the action, the effect on new and existing structures, timeline, and the potential funding sources.

Tornado, Severe Winter Weather, Severe Thunderstorm and Hail Combined Mitigation Actions

#1
Title: Implement the "Texas Individual Saferoom Rebate Program" Description: The "Texas Individual Saferoom Rebate Program" will reimburse a homeowner or developer for ½ of the cost to install an individual saferoom in an existing or planned home, up to a cap of \$3,000. Individuals may not apply directly to the State; their city or county must apply for funds on their behalf. Hazard(s) Addressed: Tornado and Severe Thunderstorms Goals and objectives addressed: 1.1, 3.2 Lead Office: Emergency Management Funding Source(s): Hazard Mitigation Grant Program, Pre-Disaster Mitigation, North Central Council of Government Effect on New Structures: Improved safety for new structures participating in the program Effect on Existing Structures: Improved safety for existing structures Timeline for Completion: 3 years Costs (Estimated): ½ of the cost to install an individual saferoom in an existing or planned home, up to a cap of \$3,000 Cost Effectiveness and Risk Reduction: Implementation of this program would save lives in the event of a tornado. The amount of lives saved would increase with the amount of participating residents

#2

Title: Adopt Wind Related Building Codes

Description: Mitigate wind related hazards by adopting and implementing new building codes in order to enhance tornado and wind resistance of structures.

Hazard(s) Addressed: Severe Thunderstorms, Tornado and Flood

Goals and objectives addressed: 1.1, 2.1

Lead Office: Building Inspection

Funding Source(s): General Fund

Effect on New Structures: New structures will be more resilient to high wind and flood.

Effect on Existing Structures: Existing structures may be more resilient if remodeled.

Timeline for Completion: 3 years

Costs (Estimated): Staff time

Cost Effectiveness and Risk Reduction: More resilient buildings withstand higher wind speeds, reducing loss during high wind events and saving on reconstruction costs along with more durable finishes, which should last longer.

Terrorism and Cyber Attack Mitigation Actions

#5

Title: Administer Desktop Security Training

Description: Conduct Wombat Training to City employees on safe web browsing, mobile device security, identifying phishing and smishing attacks, password security, and safe URLs. Phishing emails are sent to employees to test response.

Hazard(s) Addressed: Cyber Attacks

Goals and objectives addressed: 1.1, 2.3, 3.4, 3.5

Lead Office: Information Technology

Funding Source(s): General Fund

Effect on New Structures: N/A

Effect on Existing Structures: N/A

Timeline for Completion: 5 year

Costs (Estimated): \$50,000

Cost Effectiveness and Risk Reduction: All City departments depend on IT systems to make informed, critical decisions and successfully carry out their missions. Those IT systems and information resources are subject to almost constant threats that can have significant and wide-ranging impacts on operations, compromising the confidentiality, integrity or availability of information for an agency. Educating employees, who are the weak point in the system, will mitigate the loss that can be occurred during and attack.

#6

Title: Attain SWAT and EOD Team Equipment Enhancement

Description: Enhancing the SWAT and EOD team response capabilities through the procurement of equipment needed to sustain NIMS Type 1 status.

Hazard(s) Addressed: Terrorism

Goals and objectives addressed: 1.1

Lead Office: Police Department

Funding Source(s): Grant and general funding

Effect on New Structures: N/A

Effect on Existing Structures: N/A

Timeline for Completion: 3 years

Costs (Estimated): \$100,000

Cost Effectiveness and Risk Reduction: Maintaining Type 1 status is a crucial part of this in house regional asset. Not maintaining these capabilities would not only have major impacts to the City of Garland, but the entire region. This team saves lives and protects infrastructure.

Biological Event Mitigation Actions

#7

Title: Acquire Mosquito Trucks

Description: This plan will help to minimize breeding sources in the City by the use of truck-mounted larviciding equipment and liquid larvicide. The one-time purchase of equipment plus the ongoing purchase of liquid biological larvicide is an alternative to using chemical adulticide, which can kill other beneficial insects.

Hazard(s) Addressed: Biological Event

Goals and objectives addressed: Minimize mosquito breeding sources

Lead Office: Health Department

Funding Source(s): Unfunded budget supplement

Effect on New Structures: N/A

Effect on Existing Structures: N/A

Timeline for Completion: 1 year

Costs (Estimated): \$50,000

Cost Effectiveness and Risk Reduction: The use of a truck mounted larviciding disperser will reach more areas that are not accessible by humans. The dispersing of the larvicide using a buffalo turbine and liquid larvicide is a substantially cheaper alternative to using aerial applications of larvicide. One night of aerial larvicide application is approximately \$45.00/acre. The City of Garland is approximately 36,500 acres. This process will protect the population from mosquito transmitted disease.

Flood Mitigation Actions

#9

Title: Stream 2C3 and 2C4 Channel Improvements

Description: Improvements/widening of the channels of streams 2C3 and 2C4 in Garland to reduce flooding risks to residents and businesses along said streams.

Hazard(s) Addressed: Flooding

Goals and objectives addressed: 2.1, 3.1, 3.4

Lead Office: Engineering

Funding Source(s): To be proposed in a future budget; Mitigation grant funding

New Structures: Flood losses would be reduced in any new structures along the stream.

Effect on Existing Structures: Flood losses would be reduced in any existing structures along the stream.

Timeline for Completion: 5 years

Costs (Estimated): \$9,207,500

Cost Effectiveness and Risk Reduction: Homeowners along affected stream would save money on flood insurance premiums and possibly see an improvement in property values. Fewer insurance payments would be required under NFIP, and loss of life and property would be reduced.

#10

Title: Country Club Estates Storm Sewer Improvements

Description: Storm sewer and channel improvements to increase their drainage capacity

Hazard(s) Addressed: Flooding, Erosion

Goals and objectives addressed: 1.1, 2.1, 2.2, 3.1,3.4

Lead Office: Engineering

Funding Source(s): To be proposed in a future budget; Mitigation grant funding

New Structures: Elimination of some known cases of homes that are subject to Code "A" internal flooding; also, reduction of Code "C" bank erosion in new structures built in the Country Club Estates neighborhood.

Effect on Existing Structures: Elimination of some known cases of homes that are subject to Code "A" internal flooding; also, reduction of Code "C" bank erosion in existing structures in the Country Club Estates neighborhood.

Timeline for Completion: 5 years

Costs (Estimated): \$1,122,500

Cost Effectiveness and Risk Reduction: Homeowners in the Country Club Estates neighborhood would see a reduction or elimination of flood loss. Garland would reduce money spent on bank erosion repairs.

#11

Title: Keen Branch Channel Improvements

Description: Channelization improvements to Keen Branch

Hazard(s) Addressed: Flooding

Goals and objectives addressed: 1.1, 2.1, 2.2, 3.1, 3.4

Lead Office: Engineering

Funding Source(s): To be proposed in a future budget; Mitigation grant funding

New Structures: New structures built along Keen Branch would be less vulnerable to flood hazards

Effect on Existing Structures: Existing structures along Keen Branch would be less vulnerable to flood hazards

Timeline for Completion: 5 years

Costs (Estimated): \$7,073,750

Cost Effectiveness and Risk Reduction: Project would reduce flood claims for residential flood losses in structures along Keen Branch.

Communications Failure and Hail Mitigation Actions

#12

Title: Retrofit Backup Police and Fire Communications Center / Dispatch

Description: The radio network will be connected with microwave and fiber. All 8 work stations and equipment in the 911 center will be on UPS and generator backup power. Structural retrofitting of the building to reduce or eliminate the risk of future hail damage.

Hazard(s) Addressed: Communications Failure and Hail

Goals and objectives addressed: 1.1, 2.3, 3.4

Lead Office: IT

Funding Source(s): General Fund

New Structures: A new structure will be equipped to manage Police and Fire Dispatch for the City of Garland.

Effect on Existing Structures: N/A

Timeline for Completion: 1 year

Costs (Estimated): \$230,000

Cost Effectiveness and Risk Reduction: The impact to the community would be detrimental in the event of dispatch communications failure. This backup facility provides redundancy and will be a part of the Police Department's continuity of operations.

Drought Mitigation Actions

#13

Title: West Pressure Plane Improvements

Description:

This project incorporates a phased approach to add additional capacity to the West Pressure Plane of the water distribution system. Phase one includes the expansion and rehabilitation of Wallace Pump Station to increase available water.

Hazard(s) Addressed: Drought

Goals and objectives addressed: 1.1, 2.3, 3.4

Lead Office: Water

Funding Source(s): Capital Improvement Plan - \$4,050,000; Potential mitigation grant funding - \$17,574,000

Effect on New Structures: New structures would have more access to water in a drought event

Effect on Existing Structures: Existing structures would have more access to water in a drought event

Timeline for Completion: 1 year

Costs (Estimated): \$21,624,000

Cost Effectiveness and Risk Reduction: Minimal impact due to offsetting pumping costs by reducing pumping from Apollo and Northside Pump Stations. Residents of the southern portion of Garland will be less vulnerable to water shortages in a drought.

#14

Title: East Zone Water Tower Improvements

Description: Design and construction of a new elevated water storage tank and associated piping in the East Pressure Plane in order to provide peak-hour pressures to the southern portion of Garland and enhance off-peak service and fire protection

Hazard(s) Addressed: Drought

Goals and objectives addressed: 1.1, 2.3, 3.4, 3.5

Lead Office: Water

Funding Source(s): To be proposed in a future budget; Mitigation grant funding

Effect on New Structures: New structures would have more access to water in a drought event

Effect on Existing Structures: Existing structures would have more access to water in a drought event

Timeline for Completion: 3 years

Costs (Estimated): \$7,000,000

Cost Effectiveness and Risk Reduction: Minor impact on the City's operating budget due to additional facility maintenance costs. Residents of the southern portion of Garland will be less vulnerable to water shortages in a drought.

Erosion and Expansive Soil Hazard Mitigation Actions

#15

Title: Bank Stabilization - Duck Creek Greenbelt Park Improvements

Description: Installation of bank stabilization along sections of Duck Creek Greenbelt where flood events have scoured the silt banks near the concrete pedestrian and bike path. The bank has failed, sluffing-off to a point where this 8-ft wide concrete trail will need to be relocated because it is now too close to the edge of the bank. Project design will need to include topographic survey, hydraulic study of that segment, and an analysis of possible materials and methods for the most appropriate stabilization.

Hazard(s) Addressed: Erosion and Flooding

Goals and objectives addressed: 2.1, 2.3, 3.4

Lead Office: Parks and Recreation and Engineering

Funding Source(s): General Fund or mitigation funding

Effect on New Structures: N/A

Effect on Existing Structures: Will protect creek bank and adjacent park pedestrian and bike facilities from further damage.

Timeline for Completion: 3 years

Costs (Estimated): \$3.5 Million

Cost Effectiveness and Risk Reduction: This section of Duck Creek Greenbelt Park is part of a multimodal pedestrian and bike system which connects with transit facilities and provides off-street connection between Centerville Road and the City of Mesquite's bike/ pedestrian trail, south of IH-30. Current funding will be extending the concrete trail from IH-30 into Mesquite, and extending the off-street bike path from its current north terminus, into Lon Wynne Park and will cross Duck Creek via a pedestrian-bike bridge, and connect to on-street bike facilities.

#16

Title: Calcium Soil Stabilizer

Description: Apply calcium soil stabilizer to areas around critical infrastructure.

Hazard(s) Addressed: Expansive Soil

Goals and objectives addressed: 2.1, 2.3, 3.4

Lead Office: Engineering

Funding Source(s): General Fund or mitigation funding

Effect on New Structures: Will protect infrastructure from expansive soils.

Effect on Existing Structures: Will protect infrastructure from further damage.

Timeline for Completion: 4 years

Costs (Estimated): \$300,000

Cost Effectiveness and Risk Reduction: Reducing damages to critical infrastructure will reduce costs associated with repairing them.

Tornado, Severe Winter Weather, Terrorism, Biological Event, Flood, Earthquake, Severe Thunderstorm, Infrastructure and Communications Failure, Drought, Extreme Heat, Power Outage, Expansive Soils, Hail and Erosion Mitigation Actions

#17

Title: Provide Education on Mitigation Techniques

Description: Provide education and mitigation techniques to residents and local businesses.

Hazard(s) Addressed: Tornado, Severe Winter Weather, Terrorism, Biological Event, Flood, Earthquake, Severe Thunderstorm, Infrastructure and Communications Failure, Drought, Extreme Heat, Power Outage, Expansive Soils, Hail, Erosion

Goals and objectives addressed: 2.1, 2.3, 3.1, 3.2, 3.3, 3.4, 3.5

Lead Office: Chamber of Commerce

Funding Source(s): General Fund

Effect on New Structures: Development of business continuity plan.

Effect on Existing Structures: Development of business continuity plan.

Timeline for Completion: 3 years

Costs (Estimated): \$5,000

Cost Effectiveness and Risk Reduction: Losses in the community translate into the loss of resources for local residents as they try to recover, and the loss of taxes and services to local governments as they try to manage the recovery.

#18

Title: Acquire Recreation Center Generators

Description: Power loss is often one of the results of many hazards; generators would maintain energy for these facilities, which the City uses as community shelters.

Hazard(s) Addressed: Tornado, Severe Winter Weather, Terrorism, Biological Event, Flood, Earthquake, Severe Thunderstorm, Infrastructure and Communications Failure, Extreme Heat, Power Outage, Hail

Goals and objectives addressed: 1.1, 3.1, 3.4

Lead Office: Parks and Recreation

Funding Source(s): Mitigation grant funding or general fund

Effect on New Structures: None

Effect on Existing Structures: Existing recreation centers will have power backup to serve as more sustainable warming centers and shelters to local residents

Timeline for Completion: 5 years

Costs (Estimated): \$10,000

Cost Effectiveness and Risk Reduction: Generators at the community recreation centers would provide more sustainable warming centers and shelters for residents as people will have a safe place to stay during hazard events. The City will save money by sending fewer first responders on calls related to hazards.

#19

Title: Purchase and install generators

Description: Acquisition of generators at critical facilities

Hazard(s) Addressed: Tornado, Severe Winter Weather, Terrorism, Biological Event, Flood, Earthquake, Severe Thunderstorm, Infrastructure and Communications Failure, Extreme Heat, Power Outage, Hail

Goals and objectives addressed: 1.1, 2.3, 3.4

Lead Office: Fleet Services

Funding Source(s): Mitigation grant funding or Capital Improvements Project

Effect on New Structures: New structures would have improved capabilities and continuity of operations due to fuel accessibility

Effect on Existing Structures: Existing structures would have improved capabilities and continuity of operations due to fuel accessibility

Timeline for Completion: 5 years

Costs (Estimated): \$300,000

Cost Effectiveness and Risk Reduction: The City of Garland would be able to continue services and maintain operations throughout all City departments. First responders would more effectively respond to the hazard, which would also minimize loss of life.

#20

Title: Acquire Mitigation and Preparedness Coordinator

Description: This new position within the Office of Emergency Management will focus on implementing City mitigation actions, educate the public on what they can do to mitigate hazards in their homes and how prepare for emergencies.

Hazard(s) Addressed: Tornado, Severe Winter Weather, Terrorism, Biological Event, Flood, Earthquake, Severe Thunderstorm, Infrastructure and Communications Failure, Drought, Extreme Heat, Power Outage, Expansive Soils, Hail, Erosion

Goals and objectives addressed: 1.1, 2.1, 2.3, 3.1, 3.2, 3.3, 3.4, 3.5

Lead Office: Office of Emergency Management

Funding Source(s): Grant funding or General fund

Effect on New Structures: This position would focus on educating the public on protecting their homes.

Effect on Existing Structures: This position could focus on attaining grant funding and educate the public on protecting their homes.

Timeline for Completion: 1 year

Costs (Estimated): \$60,000 a year

Cost Effectiveness and Risk Reduction: Educating residents and businesses to prepare for disasters, mitigate hazards and build emergency plans will put less of a strain on local government resources.

Benefit-Cost Review and Prioritizing Mitigation Actions

The City of Garland Planning Team prioritized mitigation activities using the Social, Technical, Administrative, Political, Legal, Economic, and Environmental (STAPLEE) Method, per Federal Emergency Management Agency (FEMA) recommendations. STAPLEE is a benefit-cost review tool and includes considerations for Social, Technical, Administrative, Political, Legal, Environmental and Economic issues. Each of these items is assigned a positive or negative value. Projects that score the highest are considered to be the most effective, and their funding most justified. A lower score indicates that several obstacles exist that would prevent the proposed project from being completed. Most mitigation strategies have at least one obstacle and, very frequently, this obstacle is economic. Part of putting the mitigation strategies in a prioritized list is being able to justify the need for a project should funding become available.

City of Garland STAPLEE Action Evaluation and Prioritization Table

Mitigation Actions	Community Acceptance	Effect on Segment of	Technically Feasible	Long-Term Solution	Secondary Impacts	Staffing	Funding Allocation	Maintenance/Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenges	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land/Water	Consistent with Federal Laws	Effect on HAZMAT Waste Sites	Matches Environmental Goals	Total Prioritization Score
#1 Saferooms	+	+	+	+	+	N	-	N	+	N	+	N	+	+	+	N	N	-	N	+	N	N	9
#2 Code	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	-	+	N	N	+	N	N	14
#3 Line Pgm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+	N	N	19
#4 Crew	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+	N	+	N	N	18
#5 Mutual Aid	+	+	+	+	+	N	N	+	+	+	+	+	+	+	+	+	N	+	N	+	N	N	16
#6 Trimming	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	+	N	+	N	+	N	N	16
#7 Fuel Truck	+	+	+	+	+	+	-	+	+	N	+	+	+	+	+	N	N	-	N	+	N	N	12
#8 Skywarn	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+	N	+	N	N	18
#9 Tire Chains	+	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	N	-	N	+	N	N	18
#10 IT Training	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+	N	+	N	N	18
#11 SWAT Eqpt	+	+	+	+	-	+	+	+	+	+	-	+	+	+	+	+	N	-	N	-	N	N	14
#12 Mosq Truck	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+	N	+	N	+	19
#13 Ben Davis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+	N	+	20
#14 Channel	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	N	-	+	+	N	+	16
#15 Sewer	+	+	+	+	+	+	-	+	+	+	+	+	+	+	-	-	N	-	+	+	N	+	13
#16 Keen Br	+	+	+	+	+	+	-	+	+	+	+	+	+	+	-	-	N	-	+	+	N	+	12
#17 Dispatch	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+	N	+	N	+	19
#18 West Pressure	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+	21
#19 East Tower	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	-	+	+	N	+	17
#20 Duck Creek	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+	21
#21 Eco Edu	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	N	+	N	N	18
#22 Generators	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	N	-	N	+	N	N	14
#23 Position	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	N	19



8. Plan Maintenance

Planning Team members will be responsible for coordinating a periodic review of the Plan to ensure integration of hazard mitigation strategies

Monitoring, Evaluating and Updating the Plan

The City of Garland Hazard Mitigation Action Plan goals, integration and planning processes will be monitored and evaluated each January within its five year life cycle by reconvening the Planning Team. At this time the Planning Team will determine if changes are necessary to the plan and will evaluate and monitor each mitigation action using the Department Update form located in Appendix C to track actions. The Planning Team will evaluate mitigations using the Department Update form which includes project status, project achievement, cost effectiveness, problems, and relevance. The team will also determine if the identified hazards have changed or if risk and impact of the hazards have increased or decreased. Updates may also be the result of the City of Garland Budget Review, Capital Improvement Plan or major disaster within the community. The Advisory Committee, comprised of department heads, including the Emergency Management Coordinator, will monitor and evaluate mitigation actions from a department perspective and determine how improvements could be made after the Planning Team has summarized their findings. Following each update to the Hazard Mitigation Action Plan, the City of Garland Office of Emergency Management will document the update in the record of changes table in the Plan. This table will track any meetings, activities, completed initiatives, resulting risk reduction, limitations or processes used for the purpose of the plan update. One year before the 5 year plan update, the planning team will reconvene along with any additional individuals or organizations that have subject matter expertise. Once again, the Planning Team will review the threats and hazards to determine if these have changed or decide if there is the need for another Community Risk and Impact Assessment. Evaluate each mitigation action using the Department Update form located in Appendix C, update all statistics and data included or referenced in the plan, and develop future mitigation actions.

Incorporation into Existing Planning Mechanisms

The HazMAP identifies current capabilities and mechanisms available for implementing hazard mitigation strategies. Integration of the Hazard Mitigation Action Plan into other existing planning mechanisms will take place through coordinating HazMAP with Annex P: Hazard Mitigation, working with City Department Directors and the Advisory Committee to coordinate Capital Improvement planning and mitigation goals, and through City Council approval and adoption. Mitigation actions smaller in nature that are not separate budget items, and do not have great impacts on residents or departments are not required to be presented to City Council. Department Directors and managers simply implement the mitigation action into current department plans and procedures informally. An example of this type of

mitigation action would be distributing weather radios to all City departments. Larger mitigation actions requiring substantial resources, large changes in City services or department activities must first be approved through Department Directors, then approved by the Managing Director of that department, then approved by the City Manager and finally presented to City Council for approved by vote. After final approval the Department Directors and Managers will begin the mitigation action implementation process. If other departments are needed to coordinate activities the Advisory Committee can assist. During any mitigation action implementation the Office of Emergency Management plays a support role to departments implementing mitigation actions.

Continued Public Involvement

In order to maintain public involvement the City of Garland Planning Team will continue to seek the input of the public and stakeholders. A copy of the Local Hazard Mitigation Action Plan will continue to be available through the Office of Emergency Management for review and comment. The public will also be continuously engaged through a number of various tasks completed by the City of Garland Office of Emergency Management and other City Departments. Methods for public involvement during implementation include but are not limited to: adding an Economic Resistance and Recovery Education Coordinator to the Department of Emergency Management, Economic Resistance and Recovery Education through the Chamber of Commerce, presentations, community preparedness campaigns, and seasonal preparedness updates on the department website.

Discussion with citizens about hazards and risks, builds support for implementation of mitigation activities. During annual events OEM will gauge the public's preparedness through discussion and survey tools to assist in monitoring plan impacts and report findings at the annual Planning Team meeting. A formal survey may be distributed with similar questions to the initial survey in Appendix E to easily compare and evaluate components of the HazMAP plan during the 5 year plan update.

Plan Maintenance Summary

Maintenance Activity	Local Planning Documents	Responsible Personnel	Schedule	Plan
Implementation	City Budget	City Manager	Annually	Integration of mitigation projects identified in HazMAP, grants, and other fiscal allowances for mitigation actions and related costs
Implementation	Emergency Operations Plan updates	Senior Emergency Management Specialist	Reviewed Annually, updated as needed	EOP Mitigation annex updates based on HazMAP HIRA; update preparedness, response and recovery actions related to identified hazards
Implementation	Floodplain ordinances	Drainage and Development Engineer	As needed	Enhance mitigation of flood hazards using LMAP flood data for floodplain management and community development.
Implementation	Community Rating System	Drainage and Development Engineer	Annually	
Implementation	Capital Improvement plans	Budget and Research	Annually	Strengthen critical infrastructure and key resources based on HazMAP hazard analysis, incorporate vulnerability data and action items.
Monitoring Evaluation Update	HazMAP	HazMAP Planning Team	Annually in January	- Evaluate each mitigation action using the Department Update form - Determine changes in hazards, risk and impact
Monitoring Evaluation	HazMAP	Advisory Committee	Annually after Planning Team Summarizes	Assess progress in mitigation activities that were implemented by the plan and decide how improvements could be made to the overall mitigation strategy.



9. Appendix

A. City Council Resolution

B. Documentation of Planning Meetings

HazMAP Kickoff

Goals and Objectives

- Organize Resources and Convene Planning Team
- Review Previous Mitigation Goal Progress and Implementation
 - Other activities current/or completed not in the plan
- Set 2nd Planning Team Meeting – Monday October 10th at 10am?
 - Update Community Capabilities and Risk Assessment
- Set Individual Meetings with each Planning Team Member
 - In depth mitigation goal progress, documentation, etc.
 - Update statistics, data and figures
 - Send document with information that needs an update.
- Create Outreach Strategy
- Previous Strategy
 - Stakeholders, Public and Officials
 - Materials on website (tornado safety, HazMAP info, extreme heat safety)
 - Plan placed at library for public review and comments.
- Identify Mitigation Goals and Actions
 - Add manmade hazards to plan (terrorism)
 - Add aircraft incident, biological event, expansive soil, dam and levee failure, earthquake, lightning, wildfire
- Develop Action Plan for Implementation
- Set annual meeting to coincide with FEMAS grant cycle
- Identify Plan Maintenance Procedures
- Review Final Draft
- Submit Plan to State and FEMA
- Adopt Plan

Planning Team

Building Inspection
Chamber of Commerce
Emergency Management
Engineering
Facilities
Fire Department
GIS
Garland Power & Light
Health
Parks and Recreation
Planning/Neighborhood Vitality
Police
Water

Summary of Past Mitigation Goals

Y	*The "Texas Individual <u>Saferoom</u> Rebate Program" will reimburse a homeowner or developer for ½ of the cost to install an individual <u>saferoom</u> in an existing or planned home, up to a cap of \$3,000.
Y	Adopting and implementing new building codes which in order to enhance tornado and wind resistance of structures within the community.
	*Installation of approximately eight flood sirens and sensors at strategic locations along Duck Creek to warn citizens in the event of a serious flood incident, allowing evacuation from homes and businesses. Volunteer emergency response teams would be able to block roads that are flooded; preventing citizens from driving through hazardous areas. Outdoor warning sirens/<u>CodeRed</u>/flood gate locations
	Improvements/widening of the channels of streams 2C3 and 2C4 in Garland to reduce flooding risks to residents and businesses along said streams.
	*Country Club Estates Storm Sewer Improvements. Storm sewer and channel improvements to increase their drainage capacity.
	Channelization improvements to Keen Branch.
	*Recreation Center Generators
	Acquisition of generators at the two main City of Garland fuel sources, 2343 Forest LN and Gasoline Alley, and a new mobile fuel truck for emergency operations
Y	*Distribute All Hazards Nation Weather Service Radios to all city facilities.
Y	Increase the number of storm spotters in the community and the training they receive by hosting an annual SKYWARN Spotter Training Conference.
	*Purchase and installation of six outdoor misting stations, one for each community recreation center.
	Implement an aggressive public awareness campaign concerning extreme heat and how to mitigate heat within the household
	*West Pressure Plane improvements of the water distribution system. Phase one includes the expansion and rehabilitation of Wallace Pump Station and the construction of a new 24-inch transmission line. In Phase two, a 2.5-million-gallon elevated storage tank will be constructed in the southwest portion of Garland. The final phase will provide an additional 3.5 million gallons of ground storage.

New East Zone Water Tower and associated piping in the East Pressure Plane in order to provide peak-hour pressures to the southern portion of Garland and enhance off-peak service and fire protection.

*Advanced Hazardous Materials Training for Emergency Management staff through the Pipeline Safety Office of Training and Qualifications, in order to develop more thorough plans for hazardous materials Training

N

Identify hazardous materials facilities that exist in the floodplain. Help facilities to prepare plans for flood events.

Rapid First Response Communications. Outsource mission-critical paging to a company that utilizes more advanced technology that focuses on rapid and accurate delivery of text messages during emergency operations

*Identifies the highest level of prioritization using the STAPLEE evaluation

Questions

- Is growth and development an issue?

HazMAP Planning Meeting 2

10/10/2016

Survey Results

Item	Value
Survey Date	10/10/16
Survey Time	10:00 AM
Survey Location	10/10/16
Survey Method	10/10/16
Survey Results	10/10/16
Survey Status	10/10/16
Survey Notes	10/10/16
Survey Comments	10/10/16
Survey Actions	10/10/16
Survey Results	10/10/16
Survey Status	10/10/16
Survey Notes	10/10/16
Survey Comments	10/10/16
Survey Actions	10/10/16

- Handout
- Are these correct?
- Priority?
- Do changes need to be made?
- Heard Survey Results - justification, Resources, Next will Start Planning - alignment of Risk and Mitigation Actions

Community Impact / Risk

Factors to Consider:

- Geographic Scope
- Duration
- Health Effects
- Displacement
- Economy
- Environment
- Built Environment
- Transportation
- Critical Services
- Confidence in Gov't
- Frequency (F)
- Cascading Effects (CE)
- Future Impacts

Prioritization

Agenda

- Today
- Hazard Survey Results
- Top 10 Hazards in Garland
- Calculate Community Impact and Risk of Hazards
- Determine Public Outreach Approach

What is the best way to get Public Input?

Grants need Public Approval

Top 10 Hazards = Top Risk

Hazard	Frequency	Severity	Duration	Health Effects	Displacement	Economy	Environment	Built Environment	Transportation	Critical Services	Confidence in Gov't	Frequency (F)	Cascading Effects (CE)	Future Impacts
1. Flood	High	High	High	High	High	High	High	High	High	High	High	High	High	High
2. Drought	High	High	High	High	High	High	High	High	High	High	High	High	High	High
3. Wildfire	High	High	High	High	High	High	High	High	High	High	High	High	High	High
4. Earthquake	High	High	High	High	High	High	High	High	High	High	High	High	High	High
5. Hurricane	High	High	High	High	High	High	High	High	High	High	High	High	High	High
6. Tornado	High	High	High	High	High	High	High	High	High	High	High	High	High	High
7. Ice Storm	High	High	High	High	High	High	High	High	High	High	High	High	High	High
8. Power Outage	High	High	High	High	High	High	High	High	High	High	High	High	High	High
9. Air Pollution	High	High	High	High	High	High	High	High	High	High	High	High	High	High
10. Noise Pollution	High	High	High	High	High	High	High	High	High	High	High	High	High	High

What are the top 5 hazards in Garland?

Hazard	Frequency	Severity	Duration	Health Effects	Displacement	Economy	Environment	Built Environment	Transportation	Critical Services	Confidence in Gov't	Frequency (F)	Cascading Effects (CE)	Future Impacts
1. Flood	High	High	High	High	High	High	High	High	High	High	High	High	High	High
2. Drought	High	High	High	High	High	High	High	High	High	High	High	High	High	High
3. Wildfire	High	High	High	High	High	High	High	High	High	High	High	High	High	High
4. Earthquake	High	High	High	High	High	High	High	High	High	High	High	High	High	High
5. Hurricane	High	High	High	High	High	High	High	High	High	High	High	High	High	High

Public Outreach

- Take decisions to Public in survey form
- Materials on website - all dept. sites
- City Press
- Library
- Chamber of Commerce

Geographic Scope

Geographic Scope	Frequency	Severity	Duration	Health Effects	Displacement	Economy	Environment	Built Environment	Transportation	Critical Services	Confidence in Gov't	Frequency (F)	Cascading Effects (CE)	Future Impacts
Garland	High	High	High	High	High	High	High	High	High	High	High	High	High	High

Duration

Duration	Frequency	Severity	Duration	Health Effects	Displacement	Economy	Environment	Built Environment	Transportation	Critical Services	Confidence in Gov't	Frequency (F)	Cascading Effects (CE)	Future Impacts
10 days	High	High	High	High	High	High	High	High	High	High	High	High	High	High

Economy

Economy	Frequency	Severity	Duration	Health Effects	Displacement	Economy	Environment	Built Environment	Transportation	Critical Services	Confidence in Gov't	Frequency (F)	Cascading Effects (CE)	Future Impacts
High	High	High	High	High	High	High	High	High	High	High	High	High	High	High

Transportation

Transportation	Frequency	Severity	Duration	Health Effects	Displacement	Economy	Environment	Built Environment	Transportation	Critical Services	Confidence in Gov't	Frequency (F)	Cascading Effects (CE)	Future Impacts
High	High	High	High	High	High	High	High	High	High	High	High	High	High	High

Health Effects

Health Effects	Frequency	Severity	Duration	Health Effects	Displacement	Economy	Environment	Built Environment	Transportation	Critical Services	Confidence in Gov't	Frequency (F)	Cascading Effects (CE)	Future Impacts
High	High	High	High	High	High	High	High	High	High	High	High	High	High	High

Environment

Environment	Frequency	Severity	Duration	Health Effects	Displacement	Economy	Environment	Built Environment	Transportation	Critical Services	Confidence in Gov't	Frequency (F)	Cascading Effects (CE)	Future Impacts
High	High	High	High	High	High	High	High	High	High	High	High	High	High	High

Critical Services

Critical Services	Frequency	Severity	Duration	Health Effects	Displacement	Economy	Environment	Built Environment	Transportation	Critical Services	Confidence in Gov't	Frequency (F)	Cascading Effects (CE)	Future Impacts
High	High	High	High	High	High	High	High	High	High	High	High	High	High	High

Displacement

Displacement	Frequency	Severity	Duration	Health Effects	Displacement	Economy	Environment	Built Environment	Transportation	Critical Services	Confidence in Gov't	Frequency (F)	Cascading Effects (CE)	Future Impacts
High	High	High	High	High	High	High	High	High	High	High	High	High	High	High

Built Environment

Built Environment	Frequency	Severity	Duration	Health Effects	Displacement	Economy	Environment	Built Environment	Transportation	Critical Services	Confidence in Gov't	Frequency (F)	Cascading Effects (CE)	Future Impacts
High	High	High	High	High	High	High	High	High	High	High	High	High	High	High

Confidence in Government

Confidence in Government	Frequency	Severity	Duration	Health Effects	Displacement	Economy	Environment	Built Environment	Transportation	Critical Services	Confidence in Gov't	Frequency (F)	Cascading Effects (CE)	Future Impacts
High	High	High	High	High	High	High	High	High	High	High	High	High	High	High

HazMAP Planning Meeting 4

1/12/2017

Agenda

- Public Outreach
- Mitigation Actions

Public Outreach

- FEMA Requirement – Public Participation
 - Web Page
 - Survey Links in Vietnamese and Spanish
 - Definition
 - Purpose
 - Process
 - Identified Hazards
 - Role of Public Involvement
 - POC
- Post Flyer at Customer Service Sites
 - All Libraries (4)
 - Permit Office – 800 Main Street
 - Customer Service – 217 N. 5th Street
 - Recreation Centers
 - Health Department
 - City Care Clinic
 - Pet Adoption Center

Public Outreach Cont.

- Survey link pushed through:
 - Neighbor, COG Twitter, COG Facebook
 - Chamber of Commerce Business Group
 - Community Leaders Group
 - Orleans Fire and Police Academy
 - GASP
- Residents can use libraries computers
- Hard copies Requested through OEM
- Memo Sent to Council
- Live January 16th – February 20th
- Results included in HazMAP

Mitigation Actions

- Building Inspection
 - Ordinance No. 6820 adopted the 2015 International Building Code (IBC)
 - Section 402 of the IBC requires that a Storm Shelter capable of withstanding 150 MPH winds be constructed with new police, fire and ambulance facilities as well as with public schools
 - Building Code enforcement and maintenance - adopting and implementing new building codes which in order to enhance tornado and wind resistance of structures within the community
 - Update Construction Codes - Review the 2018 series of the International Codes for possible adoption by the City Council
 - Incentive for new homes?

Mitigation Actions

- Chamber of Commerce
 - Economic Recovery?
- Emergency Management
 - Work with NWS flood sensor at Duck Creek?
 - Strategic Plan
 - EMAP Accreditation
 - Texas Individual Safehome Rebate Program
 - Skywarn Training

Mitigation Actions

- Engineering
 - Flood Gate Map
 - Improvements/altering of the channels of streams 2C and 2D in Garland to reduce flooding risks
 - Country Club Estates Storm Sewer Improvements
 - Kean Branch Channel Improvements
 - Community Rating System (CRS) ?
 - Any from OP and Budget?
- Health
 - Biological Event Mitigation?
 - Accreditation?
- Facilities
 - Security Cameras – Terrorism? Is this complete?
 - Window film on 2nd floor 911 communication center?

Mitigation Actions

- Fire Department
 - New fire station
 - Pre fire planning program for target hazard locations?
- Fleet
 - Fleet Services Continuity of Operations
 - Emergency Management Capabilities Assessment?
- Neighborhood Vitality
- Parks and Recreation
 - Duck Creek Greenbelt Drainage
 - Recreation Center Generation? Delayed is correct?
- Police Department
 - Terrorism/Other Attacks? New equipment?
 - Communications Failure? New radio system?

Mitigation Actions

- GP&L
 - Tree Trimming Program
 - Overhead Line Maintenance Program
 - Ben Davis Substation Flood Study and Equipment Upgrade
 - Mutual Aid Agreements to provide power restoration assistance
 - 24/7 Standby Electric Crews
 - Fans & window units?
- Water
 - West Pressure Plan Improvements - more access to water in drought
 - East Zone Water Tower
 - Water Resource Plan / Conservation Ordinance? Capabilities?
 - Increased backflow inspection?
 - Cross connection control?
 - Any from OP and Budget?

Mitigation Actions

- Risk Management
 - Updating facility evacuation and sheltering plans?
 - RIMS Safety Training?
 - Property reevaluation for property insurance purposes
- Others Mentioned
 - Housing – Income based repairs? Emergency a/c?
 - Automatic Chains for FD/EMS/Storms?
 - Lightening – using warning signs?

Next

- Confirm mitigation actions with all departments
- Survey available through February 20th
- Implement survey results and mitigation actions into plan
- Put draft HazMAP on City website for comment – 2 weeks
- Next meeting

C. Department Updates

Hazard Mitigation Action Department Updates

The hazard mitigation action(s) below have been extracted from the HazMAP plan. The plan requires each mitigation action to be monitored and evaluated which includes the following information:

- Project status: ☐ Project Completed
☐ Project Canceled
☐ Project on Schedule
Anticipated completion date: _____
☐ Project delayed
Explain _____

Did the project achieve the planned result that was anticipated?

How was the project cost-effective?

Who and how many benefited from this project? Other benefits?

What obstacles, problems or delays did the project encounter?

If uncompleted, is the project still relevant? Should the project be changed or revised?

Other comments or areas of concern needing mitigation action?

D.Public Outreach Methods

City of Garland Website information



Hazard Mitigation Action Plan

What Is Hazard Mitigation?

Hazard Mitigation is the effort to reduce loss of life and property by lessening the impact of disasters.



Why Do We Need A Hazard Mitigation Plan?

Through projects, programs, and policies the City of Garland is constantly creating ways to protect the City from hazards and recover from disasters quickly. The Hazard Mitigation Action Plan (HazMAP) creates safer communities by reducing loss of life and property damage. When the HazMAP is complete, it will include a list of specific actions and goals for city departments within the next five years. These actions will lessen the impact of hazards on individuals and our community. HazMAP also includes information that the public can use to prepare themselves for hazards. Readiness is a partnership, and you play an important role in making sure hazards don't become disasters. Another partner is the Federal Emergency Management Agency (FEMA), who requires local jurisdictions to revise their HazMAP and obtain federal approval every five years in order to remain eligible for mitigation grant funding. Garland's plan is up for renewal in 2017. FEMA also requires the public to participate in the planning process.

Examples of Mitigation Actions

- Prohibiting development in high-hazard areas
- Educating citizens regarding the dangers of extreme heat and cold
- Elevation of structures in flood prone areas
- Safe rooms
- Erosion and drainage control to reduce flooding
- Mutual aid agreements to reduce response and recovery times
- Update construction codes for improved structural stability
- Trimming Program to reduce potential for trees and branches to damage power lines
- Line Maintenance Program to reduce electric service interruptions
- Water distribution system improvements to access more water in a drought

The Planning Process

Local hazard mitigation planning forms the foundation for a community's long-term strategy to reduce disaster losses and break the cycle of disaster damage, reconstruction, and repeated damage in the next disaster. The planning process consists of:

- 1. Organizing Resources** –This includes identifying and organizing Planning Team Members and Stakeholders, as well as securing needed technical expertise and authority to implement mitigation goals. Review of existing plans for inclusion and necessary updates were also accomplished during this step.
- 2. Assessing Risks** – The Planning Team identified hazards that effect Garland and potential risks they pose through Hazard and Public Surveys as well as Community Impact and Capabilities Assessments.
- 3. Developing a Mitigation Plan** – Based on an understanding of risk and impact, the Planning Team set priorities and developed mitigation actions and strategies for avoiding or minimizing the effects of disasters in Garland.
- 4. Implementing Plan and Monitor Progress** – Garland can bring the mitigation plan to life in a variety of ways, from implementing specific mitigation projects to changing aspects of day-to-day organizational operations.

Hazards Identified by the City's Hazard Mitigation Action Planning Team:

Tornado
Severe Winter Weather
Flood
Drought
Biological Event
Terrorism/Cyber Attacks
Extreme Heat
Power Outages
Earthquake
Communications Failure/Infrastructure
Failure
Severe Thunderstorms/Wind/Lightning
Hail
Erosion
Expansive Soil

Point of Contact:

Office of Emergency Management
972-781-7272 | OEM@GarlandTx.gov



Help keep Garland *safe.*

The Office of Emergency Management is updating the City's Hazard Mitigation Action Plan and needs your help. A short survey can be found at Garland-OEM.com under Hazard Mitigation. Your opinion will help make a better plan to keep Garland safe.

Hazard Mitigation Survey

<https://www.surveymonkey.com/r/7GPTYT7>

Encuesta sobre la Mitigación de Peligros

<https://es.surveymonkey.com/r/73YCT65>

Tham VẤN cho việc Giảm Thiểu Nguy Hiểm

<https://www.surveymonkey.com/r/7GXHQZN>

All Garland library locations will allow residents to complete the survey on library computers. Call 972-205-2500 for locations and hours.

Paper copies can be requested by contacting Barbara Neville at 972-781-7273 or BNeville@GarlandTX.gov.

Hazard mitigation is the effort to reduce loss of life and property by lessening the impact of disasters.



E. Neighboring Communities, Local and Regional Agency Participation

All,

The City of Garland Planning Team has been working on the Hazard Mitigation Action Plan (HazMAP) update. While making revisions the Team considered the Dallas County and the City of Dallas identified hazards. At this time we would like to provide you the opportunity to review the City of Garland's HazMAP and provide feedback to enhance the Plan. We appreciate your time and ask that all feedback be provided by May 31st. Thank you in advance and please let me know if you have any questions.

Respectfully,

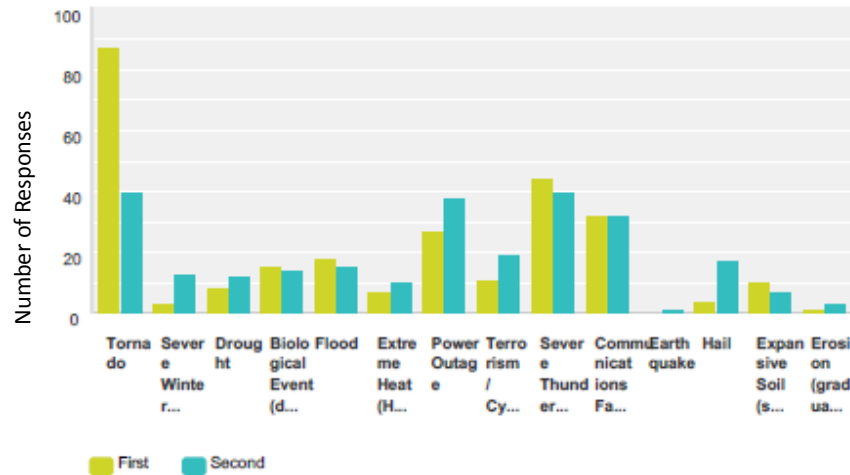
Barbara B. Neville

Senior Emergency Management Specialist
Garland Office of Emergency Management

E. Public Survey and Results

Q1 In your opinion, what are the top two hazards that can impact The City of Garland?

Answered: 269 Skipped: 0

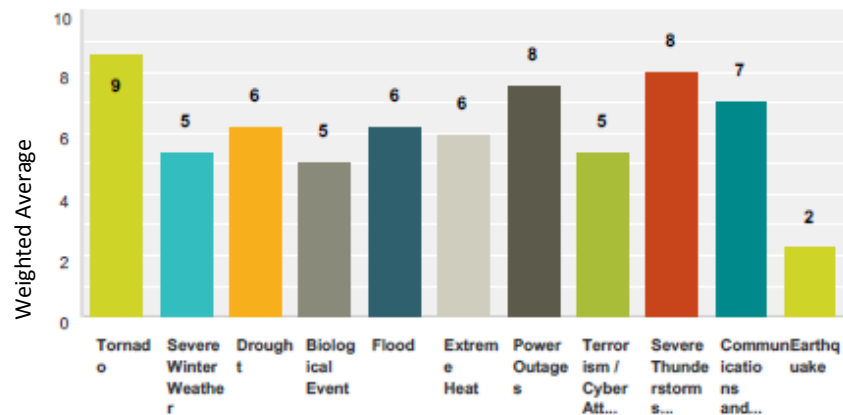


	First	Second	Total
Tornado	68.50% 87	31.50% 40	127
Severe Winter Weather (snow, freezing rain, or sleet)	18.75% 3	81.25% 13	16
Drought	40.00% 8	60.00% 12	20
Biological Event (disease outbreak ex. H1N1, Smallpox)	51.72% 15	48.28% 14	29
Flood	54.55% 18	45.45% 15	33
Extreme Heat (Heat Index of 105 degrees or higher)	41.18% 7	58.82% 10	17
Power Outage	41.54% 27	58.46% 38	65
Terrorism / Cyber Attacks	36.67% 11	63.33% 19	30
Severe Thunderstorms (including wind and lightening)	52.38% 44	47.62% 40	84
Communications Failure (transmission lines, broadcast, satellites and/or utility capabilities)	50.00% 32	50.00% 32	64
Earthquake	0.00% 0	100.00% 1	1
Hail	19.05% 4	80.95% 17	21
Expansive Soil (soils that expand when water is added, and shrink when they dry out)	58.82% 10	41.18% 7	17
Erosion (gradual wearing away of land masses)	25.00% 1	75.00% 3	4

#	Other (please specify)	Date
1	Crime and homelessness	2/3/2017 11:29 PM
2	Not being prepared for natural disasters	2/2/2017 10:41 PM
3	I took you "top two" to be the ones which will create the most devastation	2/2/2017 6:43 PM
4	Immigration (loss of population)	1/31/2017 12:01 PM
5	housing the homeless in winter weather	1/29/2017 6:20 PM
6	loss of computer cable	1/23/2017 9:24 AM
7	Sight restricted by bushes and trees at many intersections	1/22/2017 6:30 PM
8	Fracking...hopefully this is not happening.	1/20/2017 2:42 PM

Q2 The City of Garland's Hazard Mitigation Planning Team has identified the following hazards as having the largest impact on Garland. Please rank each hazard in order of importance. (1 being the most important)

Answered: 268 Skipped: 1

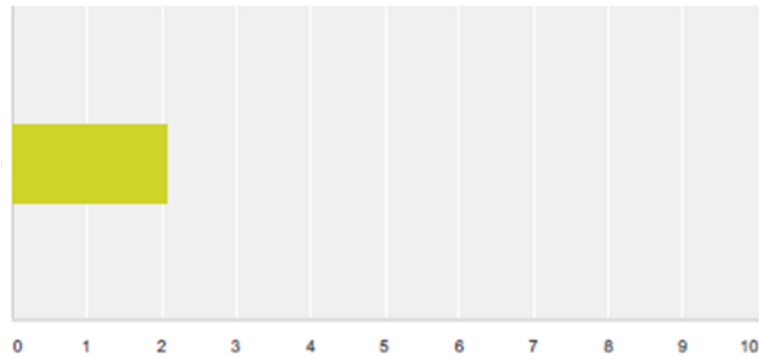


	1	2	3	4	5	6	7	8	9	10	11	Total	Weighted Average
Tornado	31.50% 80	17.72% 45	11.42% 29	12.60% 32	6.30% 16	6.30% 16	5.51% 14	2.76% 7	3.15% 8	1.97% 5	0.79% 2	254	8.62
Severe Winter Weather	1.24% 3	5.37% 13	11.16% 27	7.85% 19	13.22% 32	7.44% 18	11.16% 27	11.16% 27	9.50% 23	15.29% 37	6.61% 16	242	5.34
Drought	6.53% 16	5.31% 13	8.16% 20	12.24% 30	10.61% 26	16.73% 41	10.61% 26	14.29% 35	8.98% 22	4.90% 12	1.63% 4	245	6.20
Biological Event	9.88% 24	5.76% 14	6.58% 16	6.17% 15	5.76% 14	4.53% 11	6.17% 15	8.23% 20	15.64% 38	20.58% 50	10.70% 26	243	5.05
Flood	6.33% 15	6.33% 15	8.44% 20	12.66% 30	13.50% 32	13.92% 33	10.55% 25	9.28% 22	9.70% 23	5.91% 14	3.38% 8	237	6.22
Extreme Heat	2.10% 5	6.30% 15	7.98% 19	10.92% 26	16.39% 39	14.71% 35	10.92% 26	11.34% 27	10.92% 26	6.30% 15	2.10% 5	238	5.96
Power Outages	10.55% 27	15.63% 40	13.28% 34	14.84% 38	12.89% 33	10.55% 27	10.55% 27	5.86% 15	3.13% 8	1.95% 5	0.78% 2	256	7.54
Terrorism / Cyber Attacks	7.76% 19	6.53% 16	7.35% 18	5.71% 14	6.53% 16	7.35% 18	11.43% 28	12.65% 31	13.88% 34	13.47% 33	7.35% 18	245	5.36
Severe Thunderstorms (including wind and lightning)	17.13% 43	18.73% 47	18.73% 47	9.16% 23	10.76% 27	7.57% 19	5.98% 15	3.98% 10	3.19% 8	2.79% 7	1.99% 5	251	8.01
Communications and/or Infrastructure Failure	12.40% 31	15.60% 39	11.20% 28	9.60% 24	8.00% 20	9.60% 24	10.40% 26	8.80% 22	8.00% 20	5.60% 14	0.80% 2	250	7.07
Earthquake	1.24% 3	0.83% 2	0.00% 0	2.48% 6	0.83% 2	3.72% 9	3.31% 8	7.02% 17	8.26% 20	15.29% 37	57.02% 138	242	2.27

Q3 Please rank how prepared you and your household are for a disaster or hazard listed above.

Answered: 269 Skipped: 0

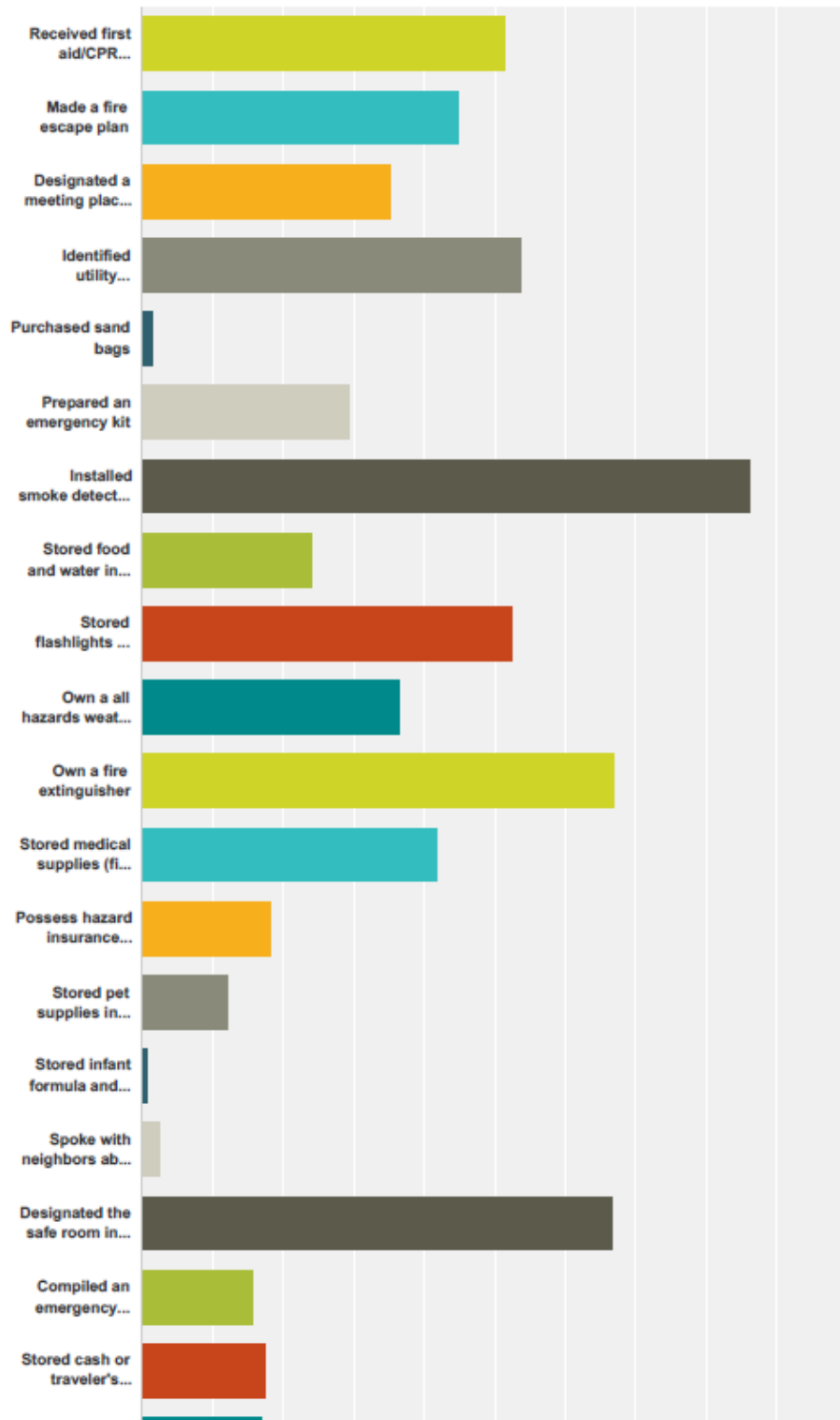
- 5 Extremely Prepared
- 4 Very Prepared
- 3 Prepared
- 2 Somewhat Prepared
- 1 Not Prepared

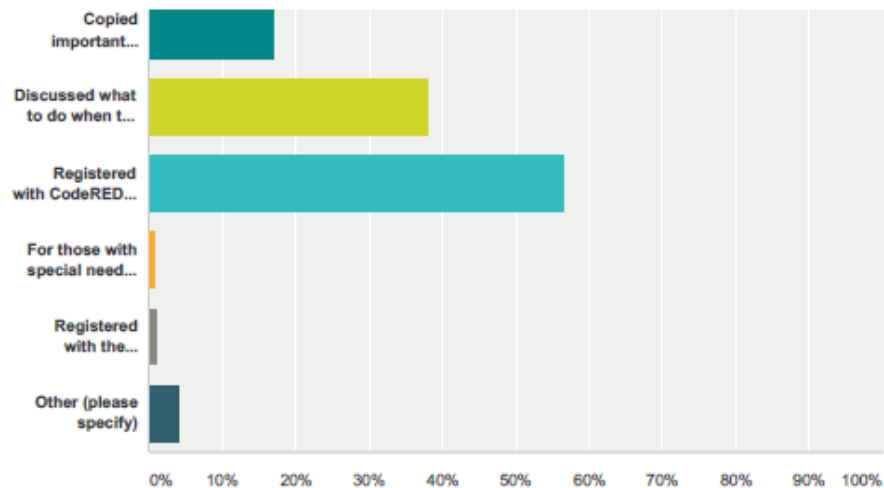


	Not Prepared	Somewhat Prepared	Prepared	Very Prepared	Extremely Prepared	Total	Weighted Average
(no label)	15.99%	63.94%	16.73%	2.97%	0.37%		
	43	172	45	8	1	269	2.08

Q4 Which of the following steps has your household taken to prepare for a disaster/hazard? (Check all that apply)

Answered: 269 Skipped: 0





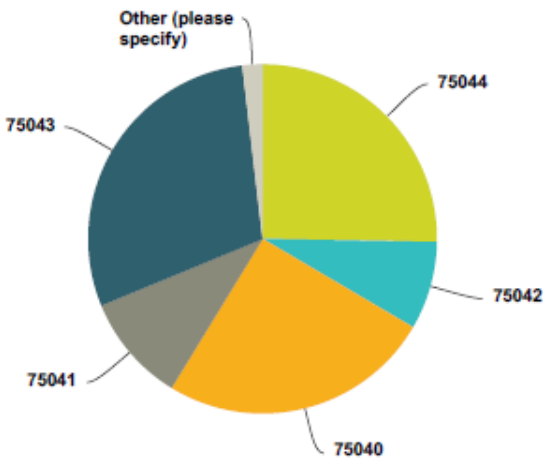
Answer Choices	Responses
Received first aid/CPR training	51.30% 138
Made a fire escape plan	44.98% 121
Designated a meeting place outside the home	35.32% 95
Identified utility shutoffs	53.90% 145
Purchased sand bags	1.49% 4
Prepared an emergency kit	29.37% 79
Installed smoke detectors on each level of the house	86.25% 232
Stored food and water in emergency kit (for 72 hours)	24.16% 65
Stored flashlights and batteries in emergency kit	52.42% 141
Own a all hazards weather radio	36.43% 98
Own a fire extinguisher	66.91% 180
Stored medical supplies (first aid kit, medications, eyeglasses)	42.01% 113
Possess hazard insurance (Flood, Earthquake, Wildfire)	18.22% 49
Stored pet supplies in emergency kit	12.27% 33
Stored infant formula and diapers in emergency kit	0.74% 2
Spoke with neighbors about disaster plans	2.60% 7
Designated the safe room in home	66.54% 179
Compiled an emergency contact list (not on a digital device)	15.61% 42
Stored cash or traveler's checks in emergency kit	17.47% 47
Copied important documents (insurance policies, identification and bank account records in a waterproof, portable container)	17.10% 46
Discussed what to do when the outdoor warning system is activated	37.92% 102
Registered with CodeRED (the local emergency notification system)	56.51% 152
For those with special needs during evacuation, registered with 211 if assistance is needed	0.74% 2
Registered with the electric company if there are electric life dependent medical equipment in home	1.12% 3

Other (please specify)	4.09%	11
Total Respondents: 269		

#	Other (please specify)	Date
1	Ammunition stockpile	2/3/2017 11:53 AM
2	Can we get more info.	2/3/2017 10:59 AM
3	none	2/3/2017 9:11 AM
4	Professionally trained and skilled at hazard abatement	2/2/2017 10:41 PM
5	Skywam training, portable water purifier	2/2/2017 4:57 PM
6	N	1/29/2017 8:31 PM
7	Portable electric generator	1/29/2017 6:13 PM
8	None	1/26/2017 9:59 PM
9	gas powered generator	1/26/2017 9:40 AM
10	Enrolled in USAA's Wildfire Response Program	1/23/2017 12:56 PM
11	maintain documtation both electroic, and on paper and distributed to others medical history with medines, emergency contact for family and neighbors, funeral plans	1/20/2017 2:04 PM

Q5 What is your zip code?

Answered: 269 Skipped: 0

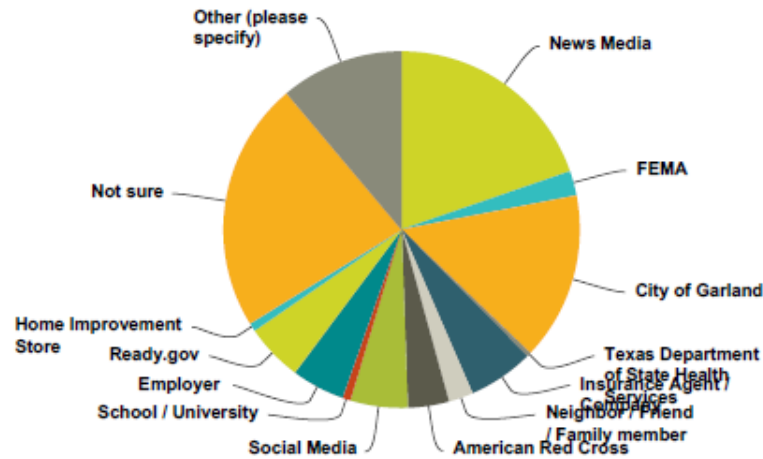


Answer Choices	Responses	
75044	25.28%	68
75042	8.18%	22
75040	25.28%	68
75041	10.04%	27
75043	29.37%	79
Other (please specify)	1.86%	5
Total		269

#	Other (please specify)	Date
1	75115	1/30/2017 8:52 AM
2	No	1/29/2017 8:31 PM
3	75089	1/26/2017 1:34 PM
4	75013	1/26/2017 9:42 AM
5	75082	1/25/2017 3:39 PM

Q6 Where did you last receive information on how to protect your household during a disaster/hazard?

Answered: 269 Skipped: 0



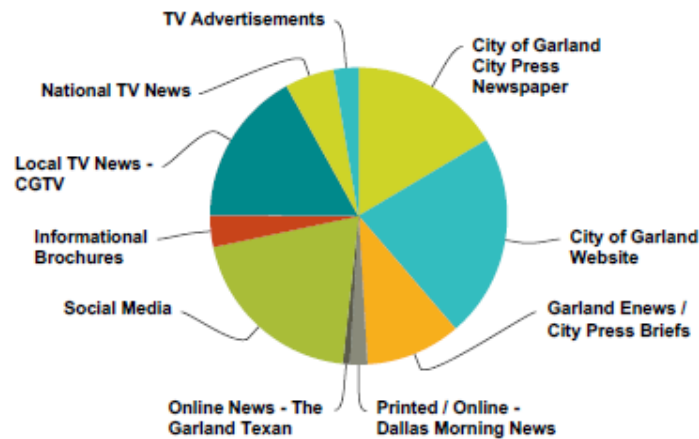
Answer Choices	Responses
News Media	19.70% 53
FEMA	2.23% 6
City of Garland	15.24% 41
Texas Department of State Health Services	0.37% 1
Insurance Agent / Company	5.95% 16
Neighbor / Friend / Family member	2.23% 6
American Red Cross	3.72% 10
Social Media	5.20% 14
School / University	0.74% 2
Employer	4.83% 13
Ready.gov	5.20% 14
Home Improvement Store	0.74% 2
Not sure	22.68% 61
Other (please specify)	11.15% 30
Total	269

#	Other (please specify)	Date
1	Various internet blogs	2/19/2017 9:48 PM
2	CERT	2/19/2017 8:40 PM
3	Haven't received any information	2/17/2017 1:37 AM
4	Garland Fire Club	2/15/2017 8:27 PM

5	Church	2/14/2017 2:50 PM
6	Haven't received any	2/13/2017 9:05 AM
7	Internet searches	2/13/2017 5:46 AM
8	internet	2/12/2017 8:03 PM
9	Books	2/11/2017 11:04 PM
10	My own reading	2/7/2017 4:27 PM
11	My research	2/6/2017 5:17 PM
12	Past experience of living in earthquake zone in California. Preparedness exercises at work.	2/3/2017 2:42 PM
13	Retired 9-1-1/Communications Manager	2/3/2017 2:33 PM
14	Dallas CERT	2/3/2017 2:05 PM
15	Did I?	2/3/2017 8:30 AM
16	No one, I just did some on my own.	2/2/2017 7:41 PM
17	Weather radio	2/2/2017 7:04 PM
18	Garland Amateur Radio Club	2/2/2017 6:16 PM
19	Air Force	2/2/2017 5:04 PM
20	OJT	2/2/2017 4:57 PM
21	Texas Baptist Men Disaster Relief	2/2/2017 4:35 PM
22	Question #7 needs a place for additional comments - if no power electronic resources are useless	1/31/2017 2:13 PM
23	internet research	1/30/2017 3:27 PM
24	Boy Scouts	1/29/2017 6:44 PM
25	City of Dallas	1/29/2017 6:16 PM
26	Common Sence	1/26/2017 11:00 AM
27	SELF- Family First/ Safety discussions at home	1/26/2017 10:48 AM
28	Preparedness Website	1/26/2017 10:35 AM
29	Garland Police Fire Cert trained	1/23/2017 9:56 AM
30	Tv show	1/23/2017 8:10 AM

Q7 What is the most effective way to receive additional information regarding hazard mitigation, emergency plans or information after disasters?

Answered: 261 Skipped: 8



Answer Choices	Responses	
City of Garland City Press Newspaper	16.48%	43
City of Garland Website	22.22%	58
Garland Enews / City Press Briefs	10.34%	27
Printed / Online - Dallas Morning News	1.92%	5
Printed / Online - The Dallas Examiner	0.00%	0
Printed / Online News - A Chau Thoi Bao	0.00%	0
Online News - The Garland Texan	0.77%	2
Social Media	19.92%	52
Informational Brochures	3.45%	9
Local TV News - CGTV	16.86%	44
National TV News	5.36%	14
TV Advertisements	2.68%	7
Total		261

F. Hazard Assessment

HAZARD AND VULNERABILITY ASSESSMENT TOOL								
EVENT	LOCATION	PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)					RISK
			HUMAN IMPACT	BUSINESS IMPACT	PREPAREDNESS	INTERNAL RESPONSE (The City of Garland)	EXTERNAL RESPONSE (Community Partners, Mutual Aid Staff/Supplies)	
	Geographic Area Affected	Probability of Future Events in the next year	Possibility of death or injury	Interruption of services	Preplanning for event	Response time, effectiveness, resources available	Response time, effectiveness, resources available	Relative threat*
SCORE	0 = Negligible: Less than 10% 1 = Limited: 10 to 25% 2 = Significant: 25 to 75% 3 = Extensive 75 to 100% * 10% of Garland = 5.71 sq mi	0 = Unlikely: Less than 1% 1 = Occasional: 1-10% 2 = Likely 10-90% 3 = Highly Likely 90%	0 = Unlikely: Less than 1% 1 = Occasional: 1-10% 2 = Likely 10-90% 3 = Highly Likely 90% * 1% of Garlands population = 2355 * 1% of businesses in Garland = 118			0 = N/A 1 = High 2 = Moderate 3 = Low or none		0 - 100%
Active Shooter								0%
Aircraft Incident								0%
Biological Event								0%
Bomb Threat								0%
Civil Disturbance								0%
Communications Failure								0%
Dam Failure								0%
Drought								0%
Earthquake								0%
Erosion								0%
Expansive Soil								0%
Extreme Cold								0%
Extreme Heat								0%
Flood								0%
Fuel Shortage								0%
	Geographic Area Affected	Probability of Future Events in the next year	Possibility of death or injury	Interruption of services	Preplanning for event	Response time, effectiveness, resources available	Response time, effectiveness, resources available	
	0 = Negligible: Less than 10% 1 = Limited: 10 to 25% 2 = Significant: 25 to 75% 3 = Extensive 75 to 100% * 10% of Garland = 5.71 sq mi	0 = Unlikely: Less than 1% 1 = Occasional: 1-10% 2 = Likely 10-90% 3 = Highly Likely 90%	0 = Unlikely: Less than 1% 1 = Occasional: 1-10% 2 = Likely 10-90% 3 = Highly Likely 90% * 1% of Garlands population = 2355 * 1% of businesses in Garland = 118			0 = N/A 1 = High 2 = Moderate 3 = Low or none		
Hail								0%
Hazardous Materials (Fixed and Transport)								0%
Information Systems Failure								0%
Lightning								0%
Plant Explosion								0%
Power Outages								0%
Railroad Incidents								0%
Severe Winter Weather								0%
Sewer Failure								0%
Subsidence								0%
Terrorism								0%
Tornado								0%
VIP Situation								0%
Water Failure								0%
Wildfire								0%
Wind								0%
AVERAGE SCORE	0	0.00	0.00	0.00	0.00	0.00	0.00	

	Planning Team Hazard Assessment Results													
Hazard	OEM Results	OEM Results	BI Results	GIS Results	Fleet Results	Eng Results	CC Results	Health Results	Plan Results	Water Results	Fire Results	PD Results	Fac Results	Risk
Extreme Heat	16.63%	22.58%	3.23%	29.035	5.38%	19.35%	25.81%	23.66%	0%	22.58%	11.835	0	32.26%	17.655
Severe Winter Weather	22.58%	17.20%	12.90%	25.81%	7.53%	11.83%	19.35%	27.96%	5.38%	17.20%	11.83%	10.00%	21.51%	16.24%
Hail	19.35%	19.35%	15.05%	32.26%	15.05%	19.35%	4.30%	12.90%	8.60%	7.53%	23.66%	8.00%	21.51%	15.92%
Extreme Cold	16.13%	22.58%	0.00%	25.81%	7.53%	19.35%	15.05%	25.81%	0.00%	17.20%	11.83%	5.00%	23.66%	14.61%
Power Outages	12.90%	29.03%	12.90%	25.81%	8.60%	7.53%	23.66%	10.75%	0.00%	0.00%	32.26%	8.00%	19.35%	14.68%
Expansive Soil	15.05%	29.03%	6.45%	9.68%	0.00%	9.68%	2.15%	19.35%	5.38%	25.81%	0.00%	0.00%	25.81%	11.41%
Drought	6.45%	22.58%	0.00%	9.68%	8.60%	19.35%	17.20%	9.68%	5.38%	19.35%	0.00%	0.00%	25.81%	11.08%
Flood	16.13%	12.90%	6.45%	22.58%	4.30%	7.53%	15.05%	15.05%	5.38%	6.45%	7.53%	6.00%	15.05%	10.80%
Lightning	3.23%	22.58%	16.13%	35.48%	3.23%	6.45%	2.15%	12.90%	0.00%	0.00%	22.58%	0.00%	6.45%	10.09%
Hazardous Materials (Fixed and Transport)	12.90%	7.53%	4.30%	17.20%	19.35%	5.38%	17.20%	15.05%	0.00%	6.45%	7.53%	0.00%	15.05%	9.84%
Tornado	6.45%	9.68%	4.30%	32.26%	7.53%	7.53%	7.53%	9.68%	4.30%	7.53%	21.51%	8.00%	4.30%	10.04%
Wind	8.60%	15.05%	8.60%	21.51%	0.00%	4.30%	6.45%	8.60%	3.23%	3.23%	25.81%	0.00%	12.90%	9.10%
Communications Failure	0.00%	8.60%	NA	12.90%	0.00%	7.53%	9.68%	23.66%	0.00%	0.00%	11.83%	0.00%	23.66%	8.15%
Civil Disturbance	6.45%	10.75%	3.23%	11.83%	21.51%	0.00%	12.90%	23.66%	3.23%	0.00%	0.00%	0.00%	7.53%	7.78%
Bomb Threat	6.45%	17.20%	NA	25.81%	0.00%	0.00%	6.45%	21.51%	3.23%	0.00%	3.23%	9.00%	6.45%	8.28%
Information Systems Failure	0.00%	0.00%	NA	6.45%	18.28%	0.00%	9.68%	23.66%	0.00%	0.00%	12.90%	8.00%	11.83%	7.57%
Active Shooter	3.23%	12.90%	NA	23.66%	8.60%	0.00%	5.38%	0.00%	4.30%	9.68%	0.00%	9.00%	6.45%	6.93%
Erosion	0.00%	0.00%	0.00%	25.81%	0.00%	22.58%	2.15%	19.35%	0.00%	0.00%	0.00%	0.00%	7.53%	5.96%
Biological Event	7.53%	11.83%	0.00%	13.98%	11.83%	0.00%	10.75%	11.83%	0.00%	0.00%	0.00%	0.00%	0.00%	5.21%
Terrorism	5.38%	6.45%	5.38%	9.68%	17.20%	0.00%	0.00%	10.75%	0.00%	6.45%	0.00%	0.00%	0.00%	4.71%
Fuel Shortage	0.00%	0.00%	NA	0.00%	27.96%	0.00%	3.23%	9.68%	0.00%	0.00%	0.00%	0.00%	13.98%	4.57%
Earthquake	7.53%	6.45%	0.00%	9.68%	12.90%	0.00%	10.75%	0.00%	0.00%	0.00%	0.00%	0.00%	10.75%	4.47%
Water Failure	0.00%	0.00%	0.00%	27.96%	0.00%	5.38%	0.00%	7.53%	0.00%	3.23%	0.00%	0.00%	6.45%	3.89%
Railroad Incidents	4.30%	7.53%	5.38%	10.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	9.68%	0.00%	12.90%	3.89%
Sewer Failure	0.00%	0.00%	0.00%	21.51%	0.00%	5.38%	0.00%	10.75%	0.00%	3.23%	0.00%	0.00%	6.45%	3.64%
Plant Explosion	5.38%	7.53%	7.53%	0.00%	0.00%	0.00%	0.00%	8.60%	0.00%	0.00%	10.75%	0.00%	5.38%	3.47%
Subsidence	0.00%	0.00%	0.00%	17.20%	0.00%	9.68%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	6.45%	2.56%
Aircraft Incident	5.38%	0.00%	0.00%	13.98%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.49%
VIP Situation	0.00%	0.00%	NA	8.60%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	11.00%	6.45%	2.17%
Dam Failure	0.00%	0.00%	0.00%	10.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.83%
Wildfire	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	8.60%	0.00%	0.00%	0.00%	0.00%	0.00%	0.66%

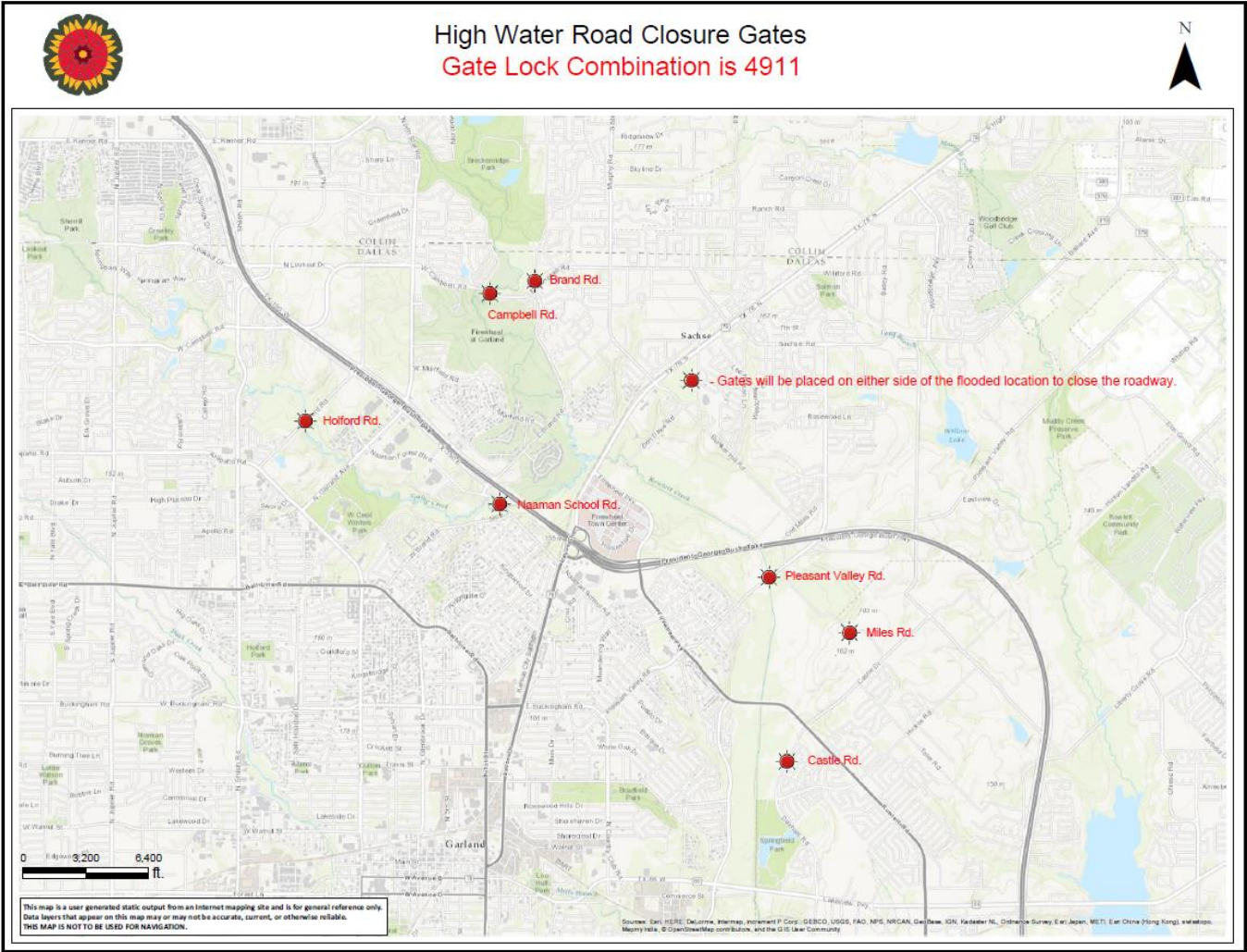
G. Community Risk and Impact Assessment

	Most Likely / Typical Scenario														Maximum Impact / Worst Case Scenario																	
	Geographic Scope	Duration	Health Effects	Displacement	Economic Impact	Environmental Impact	Built Environment	Transportation	Critical Services	Confidence in Gov't	Base Score	Frequency (F)	Cascading Effects (CE)	Multiplier (F + CE)	Subtotal	Geographic Scope	Duration	Health Effects	Displacement	Economic Impact	Environmental Impact	Built Environment	Transportation	Critical Services	Confidence in Gov't	Base Score	Frequency (F)	Cascading Effects (CE)	Multiplier (F + CE)	Subtotal	Future Emphasis	Combined Ranking
Drought											0			0	0											0			0	0		0
Earthquake											0			0	0											0			0	0		0
Erosion											0			0	0											0			0	0		0
Expansive Soil											0			0	0											0			0	0		0
Extreme Heat											0			0	0											0			0	0		0
Flood											0			0	0											0			0	0		0
Hail											0			0	0											0			0	0		0
Severe Thunderstorms / Wind / Lightning											0			0	0											0			0	0		0
Severe Winter Weather											0			0	0											0			0	0		0
Tornado											0			0	0											0			0	0		0
Biological Event											0			0	0											0			0	0		0
Communications Failure / Infrastructure Failure											0			0	0											0			0	0		0
Power Outages											0			0	0											0			0	0		0
Terrorism/Cyber Attacks											0			0	0											0			0	0		0

Community Impact Results

Most Likely / Typical Scenario										Maximum Impact / Worst Case Scenario									
	Parks	Chamber	Planning	Engineering	Facilities	GP&L	Water	Health	Total		Parks	Chamber	Planning	Engineering	Facilities	GP&L	Water	Health	Total
Tornado	12	14	12	13	13	25	11	27	18.057	Tornado	16	22	34	18	29	37	22	27	29.243
Severe Winter Weather	10	15	11	16	9.2	26	11	24	17.543	Severe Winter Weather	15	20	23	26	25	35	19	24	26.729
Drought	9.5	19	9.5	18	14	14	12	11	15.229	Flood	15	25	28	20	26	31	28	14	26.671
Biological Event	5.6	17	5.4	6.9	18	24	9	19	15.129	Biological Event	12	24	25	12	24	45	14	19	24.929
Flood	11	15	14	11	13	18	9	14	15.086	Terrorism/Cyber Attacks	14	23	14	11	34	32	22	22	24.571
Extreme Heat	8.5	15	9	15	18	14	9	11	14.229	Power Outages	10	19	36	14	32	29	15	15	24.414
Power Outages	6.5	13	7.5	11	19	17	7.2	15	13.714	Severe Thunderstorms / Wind / Lightening	11	13	19	15	35	33	18	15	22.9
Terrorism/Cyber Attacks	6.5	13	3.2	8.4	13	18	8.5	22	13.2	Extreme Heat	11	21	18	20	41	22	15	11	22.729
Severe Thunderstorms / Wind / Lightening	7	8.4	9	8.4	13	20	9.6	15	12.957	Drought	12	31	21	22	22	22	19	11	22.7
Communications Failure / Infrastructure Failure	7.2	13	3.2	11	17	17	8	13	12.586	Earthquake	9	16	18	20	27	46	14	6.6	22.4
Earthquake	7	11	8	8.4	12	25	4.2	6.6	11.571	Communications Failure / Infrastructure Failure	13	18	18	15	32	32	11	13	21.729
Hail	6	8.4	7.8	7.8	16	10	8.4	14	11.286	Hail	9	14	13	14	32	19	18	14	18.914
Expansive Soil	8	9	3	10	8	14	9	11	10.343	Erosion	9	17	13	10	34	18	13	11	18.114
Erosion	8.5	11	3.3	11	11	8	6.6	11	10.029	Expansive Soil	11	13	9	6.6	35	20	14	11	17.186
Combined Ranking										Future Emphasis									
Planning Team	Parks	Chamber	Planning	Engineering	Facilities	GP&L	Water	Health	Total		Parks	Chamber	Planning	Engineering	Facilities	GP&L	Water	Health	Total
Tornado	28	35	46	31	41	62	34	54	47.3	Biological Event	3	5	5	3	5	5	5	5	5.1429
Severe Winter Weather	25	35	34	42	34	61	30	49	44.271	Tornado	5	5	5	4	3	5	3	5	5
Flood	26	40	42	32	39	49	37	28	41.757	Earthquake	3	5	5	3	3	5	3	5	4.5714
Drought	21	50	30	39	51	36	31	23	40.086	Communications Failure / Infrastructure Failure	3	3	5	5	3	5	3	5	4.5714
Biological Event	17	41	30	19	38	69	23	38	39.429	Flood	5	5	5	4	3	3	3	3	4.4286
Terrorism/Cyber Attacks	20	36	17	20	53	50	30	45	38.6	Power Outages	1	3	5	5	3	5	3	5	4.2857
Extreme Heat	19	36	27	34	54	36	24	22	36.229	Terrorism/Cyber Attacks	1	5	5		3	5	5	5	4.1429
Power Outages	17	32	44	25	34	46	23	30	35.657	Severe Winter Weather	3	5	3	3	5	3	3	3	4
Earthquake	16	27	26	28	49	71	18	13	35.471	Drought	3	5	3	5	3	3	3	1	3.7143
Communications Failure / Infrastructure Failure	20	31	21	26	53	49	19	26	34.786	Extreme Heat	5	5	3	3	3	3	3	1	3.7143
Severe Thunderstorms / Wind / Lightening	18	22	28	24	41	53	28	30	34.729	Severe Thunderstorms / V	3	3	3	3	3	5	3	3	3.7143
Hail	15	22	21	22	40	29	26	29	29.057	Erosion	3	5	3	3	5	3	3	1	3.7143
Erosion	18	28	17	21	50	26	20	23	28.886	Hail	3	3	3	3	5	3	3	3	3.7143
Expansive Soil	19	22	12	17	46	33	23	23	27.929	Expansive Soil	3	5	3	3	3	3	3	1	3.4286

H.Flood Gates





**GARLAND
CITY COUNCIL ITEM SUMMARY SHEET**

City Council Work Session Agenda

3.a.

Meeting Date: September 5, 2017

Item Title: Public Safety Committee (PSC) Report

Submitted By: Mitch Bates, Chief of Police

Summary of Request/Problem

Chief Bates, Staff Liaison to the Public Safety Committee, will provide a committee report on the following items:

- Review the top users of Police calls-for-service & the corresponding impact on Police Services
- Review implementation process for the Public Safety Radio System
- Review options for resolving parking in front of mailboxes that prevents mail service

Recommendation/Action Requested and Justification

Discussion only.



GARLAND POLICY REPORT

City Council Work Session Agenda

3.b.

Meeting Date: September 5, 2017

Item Title: Consider and Approve Site for Development of Dog and Skate Park

Submitted By: Rick Vasquez, Managing Director

Council Goal: Sustainable Quality Development and Redevelopment
Financially Stable Government with Tax Base that Supports Community Needs
Fully Informed and Engaged Citizenry
Consistent Delivery of Reliable City Services
Safe, Family-Friendly Neighborhoods

ISSUE

The City Council adopted site selection criteria for a proposed dog park on July 27, 2017. The criteria included the following:

1. First Filter

- Within existing City park land
- 2-3 Acres of developable land
 - Out of FEMA floodplain
 - Undeveloped land
 - Re-programmed land
- Parking up to 30 spaces available on site
 - Ability to expand lot, if necessary
- Utilities available on site
- Restroom available on site

2. Second Filter

- Schools
 - Not adjacent to schools
- Neighborhoods
 - No more than 3 sides adjacency; 2 preferred
 - Minimum of 150 linear feet buffer from nearest home
- Collector roads
 - Accessible from a collector road to avoid neighborhood traffic conflicts

3. Third Filter

- Community access
- Within 10 minutes driving time to Historic Downtown Garland
- Create community
- Enhance quality of park, not take away from quality

OPTIONS

None.

RECOMMENDATION

Staff recommends City Council select Central Park as the location for development 2017 CIP funded dog park. Specifically, the dog park will be developed on a 7.2 acre site located at the intersection of S. Glenbrook Drive and South 10th Street. The site is currently occupied by the vacant armory building and a ball field. The site is provided vehicle access on two sides of the proposed site, S. Glenbrook a major arterial roadway and S. 10th Street a minor collector road. The site is served with existing water, sewer and electrical service. In addition the site enjoys access to existing parking, restrooms and other park facilities.

To leverage the presence of existing infrastructure including utilities, roadway access, parking and rest-rooms, staff is also recommending the site incorporate the development of the skating/skateboarding facility approved in the 2004 bond initiative. By combining the two projects into a single location, we are confident we can maximize the use of available project funds by selecting a one design firm and one construction firm. By sharing existing and new park facilities and combining design and construction services, we are confident we can deliver the projects at or below project budgets approved in the 2005 bond and the 2017 CIP.

CONSIDERATION

The skating/skateboard facility was approved by voters in the 2004 bond initiative in the amount of \$1 mm.

The dog park was approved by City Council in the 2017 CIP in the amount of \$1.1 mm.

Attachments

Proposed Site

Proposed Site 2



AVENUE F

TWELFTH

AVENUE G

TENTH

NINTH

AVENUE G

SIXTH

SEVENTH

CENTRAL PARK

AVENUE H

GLENBROOK

Dog Park

Skate Park

BELMONT

HILAND

OAK

PARKWAY

EDGEFIELD

EWING

CEDAR

CHANDLER

JOYCE

RUSSELL

CEDAR

EDGEBROOK

ROCK CREEK

DEGGE

LINDEN

GARLAND AVE SERVICE

GARLAND

JAMES

DAVIS

RESISTOL

REDBUD

INWOOD

CEDAR CREST

TANGLEWOOD

WILDWOOD

SHADY



AVENUE H

TENTH

NINTH

Dog Park

Skate Park

GLENBROOK

EDGEFIELD

BELMONT

HILAND



GARLAND
CITY COUNCIL ITEM SUMMARY SHEET

City Council Work Session Agenda

3.c.

Meeting Date: September 5, 2017

Item Title: Harvey Relief Update

Submitted By: Kwa heri Harris, Emergency Management Coordinator

Summary of Request/Problem

At the request of Council Member B.J. Williams, staff will brief Council regarding Garland's assistance with Hurricane Harvey rescue and relief efforts.

Recommendation/Action Requested and Justification

Council Discussion



City Council Work Session Agenda

4.

Meeting Date: September 5, 2017

Item Title: Boards and Commissions

Submitted By: Courtney Vanover, Department Coordinator I, City Secretary

Summary:

Discuss Appointments to Boards and Commissions

Mayor Douglas Athas

- John Kaiwi - Board of Adjustment
 - Sal Liberto - Building and Fire Code Board
 - Ken Risser - Citizens Environmental and Neighborhood Services Committee
 - Jennifer Nguyen - Community Multicultural Commission
 - Charles Pickitt - Community Multicultural Commission
 - Ali Said - Community Multicultural Commission
 - Kenneth Rogers - Community Multicultural Commission
 - Joann Traylor - Garland Cultural Arts Commission
 - Bettye Haynes - Library Board
 - Elizabeth Berry - Parks and Recreation Board
 - Shirley Robnett - Senior Citizens Advisory Board
 - Allan Stafford - Tax Increment Finance District Board (Downtown)
 - Morgan Jones - Tax Increment Finance District Board (South)
 - Mark Tyler - Property Standards Board
-

Attachments

John Kaiwi, BOA

Sal Liberto, Building & Fire

Ken Risser, CENAC

Jenfer Nguyen, CMC

Charles Pickitt, CMC

Ali Said, CMC

Kenneth Rogers, CMC

Joann Traylor, Cultural Arts

Bettye Haynes, Library

Elizabeth Berry, Parks & Rec

Shirley Robnett, Senior Citizens Advisory

Allan Stafford, TIF Downtown

Morgan Jones, TIF South

Mark Tyler, Property Standards



GARLAND

TEXAS MADE HERE



Application for City of Garland Boards/Commissions/Committees

Return completed application to: City Secretary's Office, 200 North Fifth Street, Garland, Texas 75040

Please Type or Print Clearly:

Date: July 31, 2017

Name: John K. Kaini Phone: _____

(Home)

Address: 1505 HAWK COURT Phone: _____

(Other)

City, State, Zip: Garland, TEXAS Email: _____

Resident of Garland for 22 years Resident of Texas for 69 years

Dallas County Voter Registration Number _____ Garland City Council District Number 2

Have you ever been convicted of a felony? ☐ Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? ☐ Yes ☒ No

Please list any experience that qualifies you to serve in the areas you have indicated.

LOVE FOR COMMUNITY

If you have previously served on a City Board or Commission, please specify and list dates of service.

CURRENTLY SERVE ON BOARD OF ADJUSTMENTS + CRIMESTOPPERS

List civic or community endeavors with which you have been involved.

lifelong member of LULAC

What is your educational background?

College

What is your occupational experience?

RETIRED SCHOOL TEACHER

I hereby affirm that all statements herein are true and correct.

John K. Kaini

Board or Commission of first, second, and third choice:

☐ Board of Adjustment	☐ Garland Cultural Arts Commission	☐ Parks and Recreation Board
☐ Building and Fire Codes Board	☐ Garland Youth Council **	☐ Plan Commission *
☐ Citizens Environmental and Neighborhood Advisory Committee	☐ Property Standards Board	☐ Planning and Mechanical Codes Board
☐ Community Multicultural Commission	☐ Library Board	☐ Special Citizens Advisory Committee
☐ Electrical Board		

* Plan Commission members must live in district ** Garland Youth Council has a separate application

FOR OFFICE USE ONLY

Ad Valorem Tax Status _____
Utility Account Status _____

Current ☒ Past Due _____
Current ☒ Past Due _____

Past Due _____
Past Due _____

Date Appointed _____

Appointed By _____

CSO Suit/Claim Filed _____
Clerk Signature & Date _____

Laura Sullivan 8/30

Date Notified _____

Disclosure Form Filed _____

Revised 03/2017



GARLAND

TEXAS MADE HERE



Application for City of Garland Boards/Commissions/Committees

Return completed application to: City Secretary's Office, 200 North Fifth Street, Garland, Texas 75040

Please Type or Print Clearly:

Date: AUGUST 31, 2017

Name: SAL LIBERTO

Phone: _____ (Home)

Address: 4833 SAN GABRIEL DR

Phone: _____ (Other)

City, State, Zip: GARLAND, TX 75043

Email: _____

Resident of Garland for 30 **years**

Resident of Texas for 69 **years**

Dallas County Voter Registration Number _____ **Garland City Council District Number** 4

Have you ever been convicted of a felony? ☐ Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? ☐ Yes ☒ No

Please list any experience that qualifies you to serve in the areas you have indicated.

I own and lease commercial and residential properties and have been involved in all aspects of their oper. +

If you have previously served on a City Board or Commission, please specify and list dates of service. +

Buildings and Fire Code from 2011 to present

List civic or community endeavors with which you have been involved.

Church activities-Sunday School, food distribution,etc.; Volunteer with Multi Cultural Commission,Naturali; +

What is your educational background?

I hold a BBA in Marketing and Finance

What is your occupational experience?

Atmos Energy for 30 years; purchase, sale and transport of natural gas. I also monitor the application of c +

I hereby affirm that all statements herein are true and correct. Sal Liberto

Board or Commission of first, second, and third choice:

☐ Board of Adjustment	<u>3</u> ☐ Garland Cultural Arts Commission	☐ Parks and Recreation Board
☒ Building and Fire Codes Board	☐ Garland Youth Council **	☐ Plan Commission *
☐ Citizens Environmental and Neighborhood Advisory Committee	☐ Property Standards Board	☐ Plumbing and Mechanical Codes Board
☐ Community Multicultural Commission	<u>2</u> ☐ Library Board	☐ Senior Citizens Advisory Committee
☐ Electrical Board		

* Plan Commission members must live in district ** Garland Youth Council has a separate application

FOR OFFICE USE ONLY

Ad Valorem Tax Status
Utility Account Status

Current 8 **Past Due** _____
Current 8 **Past Due** _____

Date Appointed _____

Appointed By _____

CSO Suit/Claim Filed
Clerk Signature & Date

Yes _____ **No** 8/31

Date Notified _____

Disclosure Form Filed _____

Revised 03/2017



GARLAND

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Application for City of Garland Boards/Commissions/Committees

Please Type or Print Clearly:

Date: 7/31/17

Name: KEN RUSSETT Phone: _____ (Home)

Address: 4130 CARRINGTON DRIVE Phone: _____ (Other)

City, State, Zip: GARLAND TX 75043 Email: _____

Resident of Garland for 16 years Resident of Texas for 32 years

Dallas County Voter Registration Number _____ Garland City Council District Number 3

Have you ever been convicted of a felony? ☐ Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? ☒ Yes ☐ No (DUI 2014)

Please list any experience that qualifies you to serve in the areas you have indicated.

HAVE SERVED AS MAYOR'S APPOINTEE TO CENAC SINCE 2009; VICE-CHAIR SINCE 2015
BOARD MEMBER FOR KEEP GARLAND BEAUTIFUL SINCE 2009.

If you have previously served on a City Board or Commission, please specify and list dates of service.

YES - SEE ABOVE - CENAC - 2009 - present

List civic or community endeavors with which you have been involved.

CENAC / KGB / SPCA / LCA BOARD MEMBER

What is your educational background?

B.A.S. IN POL SCI - UNT 1995

What is your occupational experience?

INFORMATION SPECIALIST FDIC SINCE 2008; HOTEL/TRAVEL INDUSTRY FOR PREVIOUS 20+ YRS

I hereby affirm that all statements herein are true and correct.

Ken Russett

Board or Commission of first, second, and third choice:

- | | | |
|--|---|--|
| ☐ Board of Adjustment | ☐ Garland Cultural Arts Commission | ☐ Parks and Recreation Board |
| ☐ Building and Fire Codes Board | ☐ Garland Youth Council ** | ☐ Plan Commission * |
| ☒ Citizens Environmental and Neighborhood Advisory Committee | ☐ Property Standards Board | ☐ Plumbing and Mechanical Codes Board |
| ☐ Community Multicultural Commission | ☐ Library Board | ☐ Senior Citizens Advisory Committee |
| ☐ Electrical Board | | |

* Plan Commission members must live in district

** Garland Youth Council has a separate application

Return completed application to:

City Secretary's Office
200 North Fifth Street
Garland, TX 75040
Fax: 972-205-2504
Email: rdowl@GarlandTx.gov

Revised 03/2015

Utilities: Good

Taxes: Good

Claims: none

7/4/17

tax - current CV 6/26/17
utility - current CV 6/26/17
liams - none CV 6/26/17



GARLAND
TEXAS MADE HERE

CITY OF GARLAND
RECEIVED
JUN 26 2017
CITY SECRETARY

Application for City of Garland Boards/Commissions/Committees

Please Type or Print Clearly:

Date: June 15, 2017

Name: Jennifer Nguyen Phone:

Address: 2210 Country Oaks Dr Phone:

City, State, Zip: Garland TX 75040 Email:

Resident of Garland for 32 years Resident of Texas for 32 years

☒ Dallas County Voter Registration Number Garland City Council District Number 07

Have you ever been convicted of a felony? Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? Yes ☒ No

Please list any experience that qualifies you to serve in the areas you have indicated.

on file

If you have previously served on a City Board or Commission, please specify and list dates of service.

CMC

List civic or community endeavors with which you have been involved.

on file

What is your educational background?

on file

What is your occupational experience?

Retire

I hereby affirm that all statements herein are true and correct.

Jennifer Nguyen
Signature of Applicant

Board or Commission of first, second, and third choice:

☐ Board of Adjustment

☐ Building and Fire Codes Board

☐ Citizens Environmental and Neighborhood Advisory Committee

☒ Community Multicultural Commission

☐ Electrical Board

☐ Garland Cultural Arts Commission

☐ Garland Youth Council **

☐ Housing Standards Board

☐ Library Board

☐ Parks and Recreation Board

☐ Plan Commission *

☐ Plumbing and Mechanical Codes Board

☐ Senior Citizens Advisory Committee

* Plan Commission members must live in district

** Garland Youth Council has a separate application

Return completed application to:

City Secretary's Office
200 North Fifth Street
Garland, TX 75040
Fax: 972-205-2504
Email: rdowl@GarlandTx.gov

Revised 03/2015



GARLAND

TEXAS MADE HERE

OFFICE OF GARLAND
RECEIVED
JUN 21 2017
CITY SECRETARY

Application for City of Garland Boards/Commissions/Committees

Please Type or Print Clearly:

Date: 6-15-17

Name: Charles W.P. Kitt

Phone: _____

(Home)

Address: 6513 Bordway

Phone: _____

(Other)

City, State, Zip: Garland 75044

Email: _____

Resident of Garland for 43 years

Resident of Texas for 69 years

Dallas County Voter Registration Number _____

Garland City Council District Number GA10

Have you ever been convicted of a felony? ☐ Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? ☐ Yes ☒ No

Please list any experience that qualifies you to serve in the areas you have indicated.

Prior CMC Member

If you have previously served on a City Board or Commission, please specify and list dates of service.

CMC

List civic or community endeavors with which you have been involved.

Church - School - HOA (Greens)

What is your educational background?

MS. Education

What is your occupational experience?

Public Educator 43 yrs / currently part time UTD

I hereby affirm that all statements herein are true and correct.

Charles W.P. Kitt
Signature of Applicant

Board or Commission of first, second, and third choice:

☐ Board of Adjustment

☐ Garland Cultural Arts Commission

☐ Parks and Recreation Board

☐ Planning and Zoning Board

☐ Garland Youth Council **

☐ Plan Commission

☐ Citizens Environmental and Neighborhood Advisory Commission

☐ Housing Standards Board

☐ Planning and Mechanical Codes Board

☒ Community Multicultural Commission

☐ Library Board

☐ Senior Citizens Advisory Committee

☐ Historical Land

* Plan Commission members must live in district

** Garland Youth Council has a separate application

Return completed application to:

City Secretary's Office

200 North Fifth Street

Garland, TX 75040

Phone: 972.205.1104

Email: info@garlandtx.gov

Revised 03/2015

Utilities: current/mis
Taxes: current/mis
Claims: none 6/23/17



GARLAND

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Application for City of Garland Boards/Commissions/Committees

Please Type or Print Clearly:

Date: 6/15/2017

Name: Ali Said Phone: _____ (Home)

Address: 2515 Breanna Way Phone: _____ (Other)

City, State, Zip: Garland Tx. 75040 Email: _____

Resident of Garland for 31 years Resident of Texas for 33 years

Dallas County Voter Registration Number _____ Garland City Council District Number 1

Have you ever been convicted of a felony? _____ Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? _____ Yes ☒ No

Please list any experience that qualifies you to serve in the areas you have indicated.

CMC Member 2016, H&A Member, Religious & School Functions

If you have previously served on a City Board or Commission, please specify and list dates of service.

CMC 2016

List civic or community endeavors with which you have been involved.

CMC Functions, H&A Neighborhood Annual activities

What is your educational background?

Bachelor of Science in Business Administration

What is your occupational experience?

Business owner, General Manager

I hereby affirm that all statements herein are true and correct.

[Signature]
Signature of Applicant

Board or Commission of first, second, and third choice:

____ Board of Adjustment

____ Building and Fire Codes Board

____ Citizens Environmental and Neighborhood Advisory Committee

☒ Community Multicultural Commission

____ Electrical Board

____ Garland Cultural Arts Commission

____ Garland Youth Council **

____ Housing Standards Board

____ Library Board

____ Parks and Recreation Board

____ Plan Commission *

____ Plumbing and Mechanical Codes Board

____ Senior Citizens Advisory Committee

* Plan Commission members must live in district

** Garland Youth Council has a separate application

Return completed application to:

City Secretary's Office
200 North Fifth Street
Garland, TX 75040
Fax: 972-205-2504
Email: rdow@GarlandTx.gov

Revised 03/2015

Utilities: current

Taxes: current

claims: none MS 7/24



GARLAND

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CITY OF GARLAND
RECEIVED
JUL 11 6 2017
CITY SECRETARY

Application for City of Garland Boards/Commissions/Committees

Return completed application to: City Secretary's Office, 200 North Fifth Street, Garland, Texas 75040

Please Type or Print Clearly: Date: 6/29/2017

Name: Kenneth (Greg) Rogers Phone: _____ (Home)

Address: 6209 Chelsea Way Phone: _____ (Other)

City, State, Zip: Garland, TX 75044 Email: _____

Resident of Garland for 4 years Resident of Texas for 40 years

Dallas County Voter Registration Number _____ Garland City Council District Number 1

Have you ever been convicted of a felony? ☐ Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? ☐ Yes ☒ No

Please list any experience that qualifies you to serve in the areas you have indicated.

Previously served on the JP Morgan Chase Arlington Diversity Council.
Recipient of the JP Morgan Chase Diamond Diversity Award.

If you have previously served on a City Board or Commission, please specify and list dates of service.

N/A

List civic or community endeavors with which you have been involved.

Community service through the JP Morgan Chase Good Works program

What is your educational background?

Bachelor of Science, Pre-Law Studies
Masters of Business Administration, Global Management

What is your occupational experience?

JP Morgan Chase Product Management, Treasury Services for
large corporate and commercial banking clients

I hereby affirm that all statements herein are true and correct. Kenneth Rogers

Board or Commission of first, second, and third choice:		
☐ Board of Adjustment	☒ Garland Cultural Arts Commission	☐ Parks and Recreation Board
☐ Building and Fire Codes Board	☐ Garland Youth Council **	☐ Plan Commission *
☒ Citizens Environmental and Neighborhood Advisory Committee	☐ Property Standards Board	☐ Plumbing and Mechanical Codes Board
☒ Community Multicultural Commission	☐ Library Board	☐ Senior Citizens Advisory Committee
☐ Electrical Board	* Plan Commission members must live in district ** Garland Youth Council has a separate application	

FOR OFFICE USE ONLY

Ad Valorem Tax Status
Utility Account Status

Current ☒
Current ☐

Past Due ☐
Past Due ☐

Date Appointed _____

Appointed By _____

CSO Suit/Claim Filed
Clerk Signature & Date

Yes ☐ No ☒

Date Notified _____

Disclosure Form Filed _____

Mayra Sullivan

Revised 03/2017



GARLAND

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Application for City of Garland Boards/Commissions/Committees

Return completed application to: City Secretary's Office, 200 North Fifth Street, Garland, Texas 75040

Please Type or Print Clearly:

Date: 5/19/2017

Name: JOANN TRAYLOR Phone: - (Home)

Address: 2201 N. SHILOH Phone: - WORK (Other)

City, State, Zip: GARLAND, Tex 75044 Email: - mm

Resident of Garland for 48 years Resident of Texas for 69 years

Dallas County Voter Registration Number - Garland City Council District Number 7

Have you ever been convicted of a felony? ☐ Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? ☐ Yes ☒ No

Please list any experience that qualifies you to serve in the areas you have indicated.
35 YEARS BUSINESS OWNER INVOLVING THE ARTS
REAL ESTATE EXPERIENCE - AGENT AND LANDLORD

If you have previously served on a City Board or Commission, please specify and list dates of service.
GARLAND ARTS COMMISSION 2005 - 2017

List civic or community endeavors with which you have been involved.

LEADERSHIP GARLAND
PRESIDENT GARLAND CIVIC THEATRE

What is your educational background?
2 YEARS COLLEGE - SMU

What is your occupational experience?
DANCE STUDIO OWNER
REAL ESTATE AGENT
ACCOUNTING EXPERIENCE
PRESENTLY EMPLOYED BY WILLIAMS FUNERAL DIRECTORS

I hereby affirm that all statements herein are true and correct. Joann Traylor

Board or Commission of first, second, and third choice:		
☐ Board of Adjustment	<u>1</u> ☒ Garland Cultural Arts Commission	<u>3</u> ☒ Parks and Recreation Board
☐ Building and Fire Codes Board	☐ Garland Youth Council **	☒ Plan Commission *
☐ Citizens Environmental and Neighborhood Advisory Committee	<u>2</u> ☒ Property Standards Board	☐ Plumbing and Mechanical Codes Board
☐ Community Multicultural Commission	☐ Library Board	☐ Senior Citizens Advisory Committee
☐ Electrical Board	* Plan Commission members must live in district ** Garland Youth Council has a separate application	

FOR OFFICE USE ONLY

Ad Valorem Tax Status
Utility Account Status

Current ☒ Past Due ☐
Current ☒ Past Due ☐

Date Appointed -

Appointed By -

Date Notified -

CSO Suit/Claim Filed
Clerk Signature & Date

Yes ☐ No ☒
215 5/24/17



GARLAND

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Application for City of Garland Boards/Commissions/Committees

Return completed application to: City Secretary's Office, 200 North Fifth Street, Garland, Texas 75040

Please Type or Print Clearly: Date: June 15, 2017

Name: Betty Haynes Phone: _____ (Home)

Address: 213 Kingsbridge Drive Phone: _____ (Other)

City, State, Zip: Garland TX 75040 Email: _____

Resident of Garland for 35 years Resident of Texas for 54 years

Dallas County Voter Registration Number _____ Garland City Council District Number 8

Have you ever been convicted of a felony? ☐ Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? ☐ Yes ☒ No

Please list any experience that qualifies you to serve in the areas you have indicated.

Served on Library Board in Garland and McKinney. Volunteered in those libraries plus in Paris TX

If you have previously served on a City Board or Commission, please specify and list dates of service.

Library Board 1980-1983, Library Board 1992-2002, 2003-present

List civic or community endeavors with which you have been involved.

Star Spangled Fourth volunteer, Central Area Plan Implementation Comm, Library volunteer

What is your educational background?

BA English, 12 hrs on Master of Library Science

What is your occupational experience?

Substitute teacher, Office Manager, Admin. Asst.

I hereby affirm that all statements herein are true and correct. Betty Haynes

Board or Commission of first, second, and third choice:

☐ Board of Adjustment	☐ Garland Cultural Arts Commission	☐ Parks and Recreation Board
☐ Building and Fire Codes Board	☐ Garland Youth Council **	☐ Plan Commission *
☐ Citizens Environmental and Neighborhood Advisory Committee	☐ Property Standards Board	☐ Plumbing and Mechanical Codes Board
☐ Community Multicultural Commission	☒ Library Board	☐ Senior Citizens Advisory Committee
☐ Electrical Board		

* Plan Commission members must live in district ** Garland Youth Council has a separate application

FOR OFFICE USE ONLY

Ad Valorem Tax Status _____
Utility Account Status _____

Current ☒ Past Due _____
Current ☒ Past Due _____

Date Appointed _____

Appointed By _____

CSO Suit/Claim Filed _____
Clerk Signature & Date _____

Yes _____ No ☒

Date Notified _____

Disclosure Form Filed _____

Revised 03/2017



Application for City of Garland Boards/Commissions/Committees

Please Type or Print Clearly:

Date: February 3, 2017

Name: Elizabeth Berry Phone: _____ (Home)

Address: 216 East Kingsbridge Drive Phone: _____ (Other)

City, State, Zip: Garland, TX 75040 Email: _____

Resident of Garland for 13 years Resident of Texas for 13 years

Dallas County Voter Registration Number _____ Garland City Council District Number 8

Have you ever been convicted of a felony? ☐ Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? ☐ Yes ☒ No

Please list any experience that qualifies you to serve in the areas you have indicated.

Dallas County Master Gardener; founded Loving Garland Green

If you have previously served on a City Board or Commission, please specify and list dates of service.

I have not previously served on a City Board or Commission

List civic or community endeavors with which you have been involved.

For the past three years I've been involved in numerous community endeavors such as being a participant

What is your educational background?

BA Degree in English from University of North Texas

What is your occupational experience?

Self-employed as a freelance technical and proposal writer.

I hereby affirm that all statements herein are true and correct.

Board or Commission of first, second, and third choice:

____ Board of Adjustment

____ Building and Fire Codes Board

____ Citizens Environmental and Neighborhood Advisory Committee

____ Community Multicultural Commission

____ Electrical Board

____ Garland Cultural Arts Commission

____ Garland Youth Council **

____ Property Standards Board

____ Library Board

☒ Parks and Recreation Board

____ Plan Commission *

____ Plumbing and Mechanical Codes Board

____ Senior Citizens Advisory Committee

* Plan Commission members must live in district

** Garland Youth Council has a separate application

Return completed application to:

City Secretary's Office
200 North Fifth Street
Garland, TX 75040
Fax: 972-205-2504
Email: rdowl@GarlandTx.gov

Revised 03/2015

Appointed by Mayor



GARLAND

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Application for City of Garland Boards/Commissions/Committees

Return completed application to: City Secretary's Office, 200 North Fifth Street, Garland, Texas 75040

Please Type or Print Clearly: Date: July 26, 2017

Name: Robnett, Shirley Phone: _____ (Home)

Address: 1713 Russell Phone: _____ (Other)

City, State, Zip: Garland, TX 75040 Email: _____

Resident of Garland for 40-45 years Resident of Texas for Life years

Dallas County Voter Registration Number _____ Garland City Council District Number 2

Have you ever been convicted of a felony? ☐ Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? ☐ Yes ☒ No

Please list any experience that qualifies you to serve in the areas you have indicated.

Have served on this commission for 6 years and 5 of those years as chairperson.

If you have previously served on a City Board or Commission, please specify and list dates of service.

Senior Advisory Commission 2012 to present

List civic or community endeavors with which you have been involved.

Citizens Firefighters Club of Garland as treasurer, Citizens Police Club, DPS Citizens Club, TX Citizens Fi

What is your educational background?

Batchlor - UTD and Master - Chadwick University Both in Business/Management

What is your occupational experience?

Financial - managed financial institutions, and bank examiner

I hereby affirm that all statements herein are true and correct.

Board or Commission of first, second, and third choice:

☐ Board of Adjustment	☐ Garland Cultural Arts Commission	☐ Parks and Recreation Board
☐ Building and Fire Codes Board	☐ Garland Youth Council **	☐ Plan Commission *
☐ Citizens Environmental and Neighborhood Advisory Committee	☐ Property Standards Board	☐ Plumbing and Mechanical Codes Board
☐ Community Multicultural Commission	☐ Library Board	☐ Senior Citizens Advisory Committee
☐ Electrical Board		

* Plan Commission members must live in district ** Garland Youth Council has a separate application

FOR OFFICE USE ONLY

Ad Valorem Tax Status
Utility Account Status

Current ☒ Past Due _____
Current ☒ Past Due _____

Date Appointed _____

Appointed By _____

CSO Suit/Claim Filed
Clerk Signature & Date

Yes _____ No ☒ 7/28

Date Notified _____

Disclosure Form Filed _____

Revised 03/2017



Board & Commission Application

Please Print or Type. **PLEASE DO NOT SEND RESUME.**

Return completed application to: City Secretary's Office, 200 North Fifth Street, Garland, Texas 75040

Board or Commission of first, second, and third choice: (Utility Advisory Board has a separate application)

- | | | |
|---|---|--|
| ☐ Board of Adjustment | ☐ Garland Cultural Arts Commission | ☐ Parks and Recreation Board |
| ☐ Building and Fire Codes Board | ☐ Garland Youth Council | ☐ Plan Commission * |
| ☐ Citizens Environmental and Neighborhood Advisory Committee | ☐ Housing Standards Board | ☐ Plumbing and Mechanical Codes Board |
| ☐ Community Multicultural Commission | ☐ Library Board | ☐ Senior Citizens Advisory Committee |
| ☐ Electrical Board | | |

TIFF

Full Name: ALLAN STAFFORD

Home Address: 120 W HUE A Bus. Address: 505 W STATE

City, State, Zip: GARLAND TX 75040 City, State, Zip: GARLAND, TX 75040

Home Phone: _____ Phone (Other): _____

Email Address: _____

Resident of Garland for 64 years Resident of Texas for 65 years

Are you a registered voter in Dallas County? ☐ Yes ☒ No

Voter Registration No. _____ Precinct No. 1711 City Council District No. 2

Have you ever been convicted of a felony? ☐ Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? ☐ Yes ☒ No

Please list any experience that qualifies you to serve in the areas you have indicated.

PREVIOUS SERVICE TIFE

If you have served on a City Board or Commission, please specify and list dates of service.

YES

ELECTRICAL BOARD - DATES UNKNOWN

List civic or community endeavors with which you have been involved. ONE OTHER - DATES

FBI GARLAND

SALVATION ARMY

HEART ASSOCIATION

What is your educational background?

GHS, BA, JD

What is your occupational experience?

ATTORNEY

* Plan Commission members must own property within the city.

I hereby affirm that all statements herein are true and correct.

[Signature]
Signature of Applicant

FOR OFFICE USE ONLY

Ad Valorem Tax Status

Current ☒ Past Due ☐

Signatures [Signature]

Tax Clerk

Status of Utility Accounts

Current ☒ Past Due ☐

[Signature]

Accounting Clerk

Suit/Claim Filed in City Secretary's Office

Yes ☐ No ☐

[Signature]
City Secretary

Date Appointed _____

Appointed By _____

Date Notified _____

Date Disclosure Form Filed _____

Revised 4/2008



GARLAND

TEXAS MADE HERE

Application for City of Garland Boards/Commissions/Committees

Please Type or Print Clearly:

Date: 08/30/17

Name: C. Morgan Jones

Phone: _____
(Home)

Address: 1785 East Interstate 30

Phone: _____
(Other)

City, State, Zip: Garland, TX 75043

Email: _____

Resident of Garland for 12 years

Resident of Texas for 35 years

Dallas County Voter Registration Number _____ Garland City Council District Number 3

Have you ever been convicted of a felony? ☐ Yes ☒ No

Have you ever been convicted of a Class A misdemeanor? ☐ Yes ☒ No

Please list any experience that qualifies you to serve in the areas you have indicated.

Property owner along I-30 Corridor for 27 years. Licensed attorney specializing in real estate.

If you have previously served on a City Board or Commission, please specify and list dates of service.

Garland Parks & Recreation Board Member, Garland Street Bond Subcommittee Member

List civic or community endeavors with which you have been involved.

Garland Rotary Club, Leadership Garland Alumni

What is your educational background?

College Degree, Law Degree

What is your occupational experience?

President of American Pawn Superstore, President of American Land & Timber

I hereby affirm that all statements herein are true and correct.

Board or Commission of first, second, and third choice:

☐ Board of Adjustment

☐ Garland Cultural Arts Commission

☐ Parks and Recreation Board

☐ Building and Fire Codes Board

☐ Garland Youth Council **

☐ Plan Commission *

☐ Citizens Environmental and Neighborhood Advisory Committee

☐ Property Standards Board

☐ Plumbing and Mechanical Codes Board

☐ Community Multicultural Commission

☐ Library Board

☐ Senior Citizens Advisory Committee

☐ Electrical Board

* Plan Commission members must live in district

** Garland Youth Council has a separate application

Return completed application to:

City Secretary's Office
200 North Fifth Street
Garland, TX 75040
Fax: 972-205-2504
Email: rdow1@GarlandTx.gov

Revised 03/2015



GARLAND

TEXAS MADE HERE

CITY OF GARLAND
RECEIVED
JUN 29 2016
CITY SECRETARY

Application for City of Garland Boards/Commissions/Committees

Please Type or Print Clearly:

Date: 6/23/16

Name: Mark E. Tyler Phone: _____ (Home)

Address: 5809 Harbor Town Dr Phone: _____ (Other)

City, State, Zip: Garland, TX 75044 Email: _____

✓ Resident of Garland for 49 years Resident of Texas for 54 years
Dallas County Voter Registration Number _____ Garland City Council District Number 1

Have you ever been convicted of a felony? _____ Yes X No

Have you ever been convicted of a Class A misdemeanor? _____ Yes X No

Please list any experience that qualifies you to serve in the areas you have indicated.

Fire & Rescue Officer - City of Dallas for 31 years

Custom Home Builder/Remodeler since 1983

Independent Home Inspector for 18 years

If you have previously served on a City Board or Commission, please specify and list dates of service.

N/A

List civic or community endeavors with which you have been involved.

Garland youth sports volunteer/ board member Garland Pee Wee Football, North Garland Little League

30 year volunteer/contributor for the Muscular Dystrophy Association Fill the Boot Campaign

What is your educational background?

South Garland High School ('80)

Tyler Junior College ('82)

Master Firefighter Certification with The Texas Commission on Fire Protection

What is your occupational experience?

Building code & permit compliance, Fire code inspections & compliance, knowledge of construction, Project management, Customer service, 30+ years Civil service

I hereby affirm that all statements herein are true and correct.

Mark E. Tyler

Board or Commission of first, second, and third choice:

_____ Board of Adjustment

_____ Garland Cultural Arts Commission

_____ Parks and Recreation Board

1 Building and Fire Codes Board

_____ Garland Youth Council **

3 Plan Commission *

_____ Citizens Environmental and Neighborhood Advisory Committee

2 Property Standards Board

_____ Plumbing and Mechanical Codes Board

_____ Community Multicultural Commission

_____ Library Board

_____ Senior Citizens Advisory Committee

_____ Electrical Board

* Plan Commission members must live in district

** Garland Youth Council has a separate application

Return completed application to:

City Secretary's Office
200 North Fifth Street
Garland, TX 75040
Fax: 972-205-2504
Email: rdowl@GarlandTx.gov

Revised 03/2015