

ADDENDUM II

- 1.) Crime Application general information
- 2.) Lake Casa Blanca Dam Inspection Report
- 3.) Claims history Oct 2011 thru July 2017

**Government Entity Crime
Coverage Application**

The term **Applicant** means all corporations, organizations or other entities, including subsidiaries, proposed for this insurance.

I. GENERAL INFORMATION

1. **Applicant** Information:

Name of **Applicant**: Webb County
 Street Address: 1110 Washington St. Ste 204
 City, State, ZIP Code: Laredo TX 78040
 Website Address: www.webbcountytx.gov
 Description of **Applicant's** operations: County government operations

2. Is your organization a:

State	<input type="checkbox"/>	Village	<input type="checkbox"/>
County	<input checked="" type="checkbox"/>	Borough	<input type="checkbox"/>
Town	<input type="checkbox"/>	School System	<input type="checkbox"/>
Township	<input type="checkbox"/>	Other Political Subdivision	<input type="checkbox"/>

Specify: _____

3. Annual budget of **Applicant** (most recent fiscal year): \$ _____

II. EMPLOYEE/LOCATION/EXPOSURE INFORMATION**

1. Number of employees** at all locations: 1,625

2. Total number of volunteers: _____

3. Total number of locations: 79

4. a. Number of locations outside the United States: 0
If there are locations outside the United States, indicate domicile of each on a separate page.

b. Number of employees** outside the United States: 0

** *Employee count should include full time, part time, leased, temporary and seasonal workers.*

5. Indicate the total amount of specified property *INSIDE* the premises for all locations combined:
 Cash \$ _____ Retail Checks*** \$ _____ Credit Card Receipts \$ _____

6. Indicate the total amount of specified property being transported by a messenger *OUTSIDE* the premises for all locations combined:
 Cash \$ _____ Retail Checks*** \$ _____ Credit Card Receipts \$ _____

*** *Retail Checks are only those checks that are accepted as immediate payment for retail products or services.*

III. AUDITOR INFORMATION

1. Scope of financial statement preparation:
 Internal CPA Compilation CPA Review CPA Audit None

2. Date last audit was completed: 3/30/2017

3. Is the audit rendered to a regulatory authority? N/A Yes No
4. Were any discrepancies or internal control deficiencies commented upon in the audit? N/A Yes No
5. Is there an internal audit department under the control of an employee who is a public accountant or equivalent? Yes No
6. Are all locations audited? Yes No

IV. INTERNAL CONTROLS

Entities that practice good segregation of duties and perform background checks on new employees have a better opportunity to either prevent or detect employee dishonesty. Segregation of duties means that no single individual can control a process or transaction from beginning to end.

1. Are bank account statements reconciled at least monthly? Yes No
2. Does someone other than the person responsible for reconciling bank accounts:
 Make deposits? Yes No Make withdrawals? Yes No Sign Checks? Yes No
3. Is countersignature of checks required? Yes No
 If Yes, what is the dual signing limit? \$ -0-
4. Is segregation of duties practiced in the following areas:
 Inventory management? Yes No Cash receipts? Yes No
 Vendor approval? Yes No Oversight of blank check stock? Yes No
 Purchase order approval and payment? Yes No Retail checks and credit card receipts? Yes No
5. Are all incoming checks stamped "for deposit only" immediately upon receipt? Yes No
6. Is a physical count of inventory conducted at least annually? Yes No
7. Do you conduct periodic reviews of all unused or obsolete inventory (including raw materials and scrap metals)? N/A Yes No
8. Are inventory records computerized? Yes No
9. Are the duties of computer programmers and computer operators separated? Yes No
10. Is dual authorization required for all wire transfers? N/A Yes No
11. Are the same internal controls listed above imposed on all locations and entities? Yes No
12. Is any employee responsible for the investment of public monies?
 If Yes, is an investment policy in place that sets forth specified types of approved investments? Treasury Dept. has Policy Yes No

V. COMPUTER AND FUNDS TRANSFER CONTROLS

1. Is there a software security system in place to detect fraudulent computer usage by employees, agents and outsiders? Yes No
2. Are passwords and access codes changed at regular intervals and when users are terminated? Yes No
3. Are computer programmers permitted to use machines with programs they have written? Yes No
4. Are computer check writing functions separate from check authorization? Yes No
5. Are EDP systems, programs, and procedures, including changes thereto, authorized, documented and tested? Yes No
6. Is there physical and functional segregation of personnel and periodic job shifts or job rotations? Yes No
7. What is the average daily dollar volume of electronic funds transfers? \$ 65,000
 Check if not applicable .

8. Are transfer verifications sent to an employee or department other than the one that initiated the transfer?

Yes No

VI. CURRENT INSURANCE INFORMATION/REQUESTED INSURANCE TERMS

1. Erisa Employee Theft \$25,000/No deductible

Desired Crime Coverage	Requested Limit	Requested Retention
Fidelity: Employee Theft	\$ 1,000,000	\$ 2,500
Forgery or Alteration	\$ 200,000	\$ 1,000
On Premises (Money, Securities and Other Property)	\$ 150,000	\$ 2,500
In Transit (Money, Securities and Other Property)	\$ 150,000	\$ 2,500
Computer Crime	\$ 150,000	\$ 2,500
Other (Specify: <u>\$ order/Cunferfeit</u>)	\$ 150,000	\$ 2,500

2. Expiring insurer One Beacon

3. Expiring premium _____

4. Desired effective date: 10/1/2017

5. Is Faithful Performance of Duty coverage desired*? Yes No
If Yes, cite statutory provision with requirement for Faithful Performance of Duty coverage, or indicate None:

6. List any department, board, commission or sub-entity that carries its own separate bond or policy and, if applicable, list any other entity that should be excluded from this policy *or indicate None:*

NONE

7. Do your statutes/ordinances allow Government Entity Crime Coverage to include coverage for the following positions?* *Check all that apply:*

Treasurers Tax Collectors Other positions previously bonded separately

If Other is checked, please cite statutory provision and identify the other positions by name.

***NOTE: Persons required by law to be individually bonded, and treasurers or tax collectors by whatever titles known, are automatically excluded under Government Entity Crime Coverage.**

8. If an Obligee other than the Named Insured needs to be indemnified under this insurance, please provide the name and address of the Obligee:

9. If excess limits of insurance are desired on any of your employees on either a name schedule basis or position schedule basis, complete the following:

Name of Covered Employee	Title of Covered Employee	Location of Covered Positions	# of Employees Each Position	Excess Limit of Insurance Each Employee
				\$
				\$
				\$

10. Is Faithful Performance of Duty coverage required on the employees or positions listed above? Yes No

VII. LOSS INFORMATION

1. Has the **Applicant** sustained any crime-related losses during the past 3 years?
 If Yes, please complete the table below and attach a separate sheet if necessary:

Yes No

Date of Loss	Amount of Loss	Description of Loss	Corrective Procedures Implemented
	\$		
	\$		

VIII. COMPENSATION NOTICE

Important Notice Regarding Compensation Disclosure

For information about how Travelers compensates independent agents, brokers, or other insurance producers, please visit this website: http://www.travelers.com/w3c/legal/Producer_Compensation_Disclosure.html

If you prefer, you can call the following toll-free number: 1-866-904-8348. Or you can write to us at Travelers, Enterprise Development, One Tower Square, Hartford, CT 06183.

IX. FRAUD WARNINGS

Attention: Insureds in Alabama, Arkansas, D.C., Maryland, New Mexico, and Rhode Island

Any person who knowingly (or willfully in MD) presents a false or fraudulent claim for payment of a loss or benefit or who knowingly (or willfully in MD) presents false information in an application for insurance is guilty of a crime and may be subject to fines and confinement in prison.

Attention: Insureds in Colorado

It is unlawful to knowingly provide false, incomplete, or misleading facts or information to an insurance company for the purpose of defrauding or attempting to defraud the company. Penalties may include imprisonment, fines, denial of insurance, and civil damages. Any insurance company or agent of an insurance company who knowingly provides false, incomplete, or misleading facts or information to a policyholder or claimant for the purpose of defrauding or attempting to defraud the policyholder or claimant with regard to a settlement or award payable from insurance proceeds shall be reported to the Colorado Division of Insurance within the Department of Regulatory Agencies.

Attention: Insureds in Florida

Any person who knowingly and with intent to injure, defraud, or deceive any insurer files a statement of claim or an application containing any false, incomplete, or misleading information is guilty of a felony of the third degree.

Attention: Insureds in Kentucky, New Jersey, New York, Ohio, and Pennsylvania

Any person who knowingly and with intent to defraud any insurance company or other person files an application for insurance or statement of claim containing any materially false information or conceals for the purpose of misleading, information concerning any fact material thereto commits a fraudulent insurance act, which is a crime and subjects such person to criminal and civil penalties. (In New York, the civil penalty is not to exceed five thousand dollars (\$5,000) and the stated value of the claim for each such violation.)

Attention: Insureds in Louisiana, Maine, Tennessee, Virginia, and Washington

It is a crime to knowingly provide false, incomplete, or misleading information to an insurance company for the purpose of defrauding the company. Penalties include imprisonment, fines, and denial of insurance benefits.

Attention: Insureds in Oregon

Any person who knowingly presents a false or fraudulent claim for payment of a loss or benefit or who knowingly presents false information in an application for insurance may be guilty of a crime and may be subject to fines and confinement in prison.

Attention: Insureds in Puerto Rico

Any person who knowingly and with the intention of defrauding presents false information in an insurance application, or presents, helps, or causes the presentation of a fraudulent claim for the payment of a loss or any other benefit, or presents more than one claim for the same damage or loss, shall incur a felony and, upon conviction, shall be sanctioned for each violation with the penalty of a fine of not less than five thousand dollars (\$5,000) and not more than ten thousand dollars (\$10,000), or a fixed term of imprisonment for three (3) years, or both penalties. Should aggravating circumstances be present, the penalty thus established may be increased to a maximum of five (5) years; if extenuating circumstances are present, it may be reduced to a minimum of two (2) years.

X. SIGNATURE SECTION

THE UNDERSIGNED AUTHORIZED REPRESENTATIVE OF THE APPLICANT DECLARES THAT TO THE BEST OF HIS/HER KNOWLEDGE AND BELIEF, AFTER REASONABLE INQUIRY, THE STATEMENTS SET FORTH IN THE ATTACHED TRAVELERS NEW BUSINESS OR RENEWAL APPLICATION FOR INSURANCE ARE TRUE AND COMPLETE AND MAY BE RELIED UPON BY TRAVELERS. IF THE INFORMATION IN ANY APPLICATION CHANGES PRIOR TO THE INCEPTION DATE OF THE POLICY, THE APPLICANT WILL NOTIFY THE COMPANY OF SUCH CHANGES, AND THE COMPANY MAY MODIFY OR WITHDRAW ANY OUTSTANDING QUOTATION. THE COMPANY IS AUTHORIZED TO MAKE INQUIRY IN CONNECTION WITH THIS APPLICATION.

THE SIGNING OF THIS APPLICATION DOES NOT BIND THE COMPANY TO OFFER, NOR THE APPLICANT TO PURCHASE, THE INSURANCE. IT IS AGREED THAT THIS APPLICATION, INCLUDING ANY MATERIAL SUBMITTED THEREWITH, SHALL BE THE BASIS OF THE INSURANCE AND SHALL BE, IN ALL STATES OTHER THAN NC AND UT, CONSIDERED PHYSICALLY ATTACHED TO AND PART OF THE POLICY, IF ISSUED. THE COMPANY WILL HAVE RELIED UPON THIS APPLICATION, INCLUDING ANY MATERIAL SUBMITTED THEREWITH, IN ISSUING THE POLICY.

ELECTRONICALLY REPRODUCED SIGNATURES WILL BE TREATED AS ORIGINAL.

Signature of **Applicant's** Authorized Representative

Name (Printed)

Title

Date

XI. PRODUCER INFORMATION (ONLY REQUIRED IN FLORIDA, IOWA, AND NEW HAMPSHIRE):

Producer Signature

Producer Name (Printed)

Agency Name

Agency Code

License Number

Question:

I noticed the County owns Lake Casa Blanca Reservoir/dam. Can you provide your last dam inspection report?

SEE ATTACHED REPORT



**DAM SAFETY SECTION
CRITICAL INFRASTRUCTURE DIVISION**

Dam Safety Inspection Report

Lake Casa Blanca Dam

TX02267

GENERAL INFORMATION

INVENTORY No.: TX02267

DAM: Lake Casa Blanca Dam

OWNER: Webb County

STREAM: Chacon Creek

BASIN: Rio Grande

COUNTY: Webb

GENERAL LOCATION: 3 miles Northeast of Laredo

DAM HEIGHT: 73 ft

SIZE CLASSIFICATION: Large

NORMAL CAPACITY: 17480 acre ft

MAXIMUM CAPACITY: 65000 acre ft

NORMAL WATER LEVEL: 444 ft above msl

CURRENT WATER LEVEL: 442 ft above msl

PREVIOUS INSPECTION DATE: February 10, 2010

CURRENT INSPECTION DATE: November 5, 2015

INSPECTION BY TCEQ PERSONNEL: C.W. Schneider, P.E. and Julian Romo

PERSONNEL CONTACTED: Luis Perez Garcia III, P.E., C.F.M. (Webb County Engineer/Utilities Department Director) and Mario Santos III (Engineering Project Coordinator, Webb County)

SUMMARY

Lake Casa Blanca Dam, a large size earth dam, was inspected by TCEQ staff on November 5, 2015, as part of the TCEQ regular inspection schedule. The owner was notified of the inspection on October 27, 2015. The dam was found in overall fair condition. The primary issues of concern included benching and erosion located on the lower upstream slope, bare areas where vegetation has not been established on the downstream slope, numerous erosion rills located throughout the downstream slope and need of maintenance for tree and vegetation growth. A verbal exit interview, explaining the results of the inspection, was conducted on the same day of the inspection with Mr. Mario Santos.

BACKGROUND

Lake Casa Blanca was constructed in 1946 by Webb County. Floodwaters in 1947 severely damaged the structure via piping under the embankment. A fault below the center closure section was determined to be the cause for the 1947 failure. The dam was later reconstructed in 1951 to offer recreational activities for Webb County residents and to irrigate a nearby golf course. As part of Phase I of the National Dam Safety Program the dam was inspected in 1978. The area around the lake was operated jointly by the City of Laredo and Webb County until it became a state park in 1991.

The county applied for a water right that was issued in 1975 under the provision that the dam be modified to pass the required design flood by both raising the crest and widening the service spillway. Those modifications to the dam were completed in 1982, which included lowering the service spillway and widening its bottom width to approximately 600 feet. The dam embankment was also raised and extended 250 feet beyond the right abutment.

Service spillway discharges flow into a downstream channel that is 300 feet wide and empties into Chacon Creek. The emergency spillway is an 800-foot wide low area beyond the right end of the dam. Emergency spillway flows would travel down the toe of the right side of the dam. This area was originally planned to be protected by riprap and a diversion berm that apparently was never constructed. This area is now a four-lane thoroughfare (Bob Bullock Loop).

Based on previous inspections the dam has historically been plagued by erosion gullies and dispersive soils on the downstream slope. Dispersive soils were found on the downstream slope according to soil analysis performed by Terracon Consultants in March 2011. The dam has been mostly recently inspected by the TCEQ in February 2010 and by R.J. Brandes Company in

February 2005. Both inspections rated the dam to be in poor condition due to major benching and severe erosion on the lower upstream slope, and the numerous sink holes and erosion on the downstream slope. The most recent inspection noted the following recommendations:

1. A Licensed Texas Professional Engineer (LTPE) should closely monitor formation of sinkholes and gullies on the downstream edge of crest.
2. The lower section of the upstream slope should be inspected by a LTPE to determine severity of benching, slides, and trails. Repairs should be made to these items.
3. Regular maintenance of vegetation should be performed.
4. Depressions and ruts on the crest should be graded and compacted to restore integrity and provide proper drainage to the upstream slope.
5. Animal activity should be monitored.
6. An updated version of an Emergency Action Plan should be provided.

In June 14, 2011 the TCEQ Dam Safety Program approved plans and specifications for proposed construction improvements to Lake Casa Blanca Dam. Improvements included cutting into the crest and grading the downstream slope to a 3H: 1V slope, repairing erosion gullies, and establishing a vegetative cover. Prior to the 2012 improvements, the dam had a 40 foot wide crest and a 2H: 1V downstream slope. Additionally improvement plans called to grade the lower upstream slope to a 2H:1V slope and to place a 36 inch dry stone rock rip rap layer. It was noted in a correspondence letter dated April 2011 that plans to make improvements to the upstream slope had been removed from the proposed improvements and were not performed.

Work to the downstream slope commenced March 5, 2012 and was completed prior to the current inspection. Monthly updates on construction work were not submitted to the TCEQ Dam Safety and no construction inspections were performed. Several letters addressed to the Webb County have been sent requesting an Engineers Completion of Work form to be completed. At this time the TCEQ has not received an Engineers Completion of Work form.

PRE-INSPECTION MEETING

A pre-inspection meeting was held with Mr. Luis Perez Garcia, who is the current County Engineer, and Mr. Mario Santos, Engineering Project Coordinator. Mr. Garcia informed TCEQ staff members of the improvements made to the downstream slope and the addition of recycled concrete rip rap

to the upstream slope. Mr. Santos accompanied the inspection team for the entire duration of the inspection.

INSPECTION FINDINGS

Figure 1 is a location map. Figure 2 is an aerial photo of the dam with contours. Figures 3 and 4 are sketch maps of the dam and surrounding area, indicating photo locations. Note that right and left indications are from the perspective of an observer looking downstream. Field measurements taken during the inspection were done using a hand-level and survey rod. The water level was measured to be approximately 442 feet-msl.

Crest

- The crest had an approximate length of 5800 feet and a crest width of 15 feet.
- Vegetation was noted along shoulders of the crest consisting of brush, grass and small trees (Photo 1 & 2).
- A small number of sinkholes were found on the crest ranging from 6 to 12 inches deep (Photo 3).
- A number of erosion rills and paths (from human traffic) were noted to cut into the crest from both the downstream and upstream slope (Photo 4).
- The crest was found to be in fair condition.

Upstream Slope

- The upstream slope consists of three sections: the lower section near the water line with a 3H:1V slope, the roadway/berm used by park personnel and visitors, and the upper section near the crest of the dam with a 2H:1V Slope (Photo 5).
- Recycled concrete rip rap, placed in a random and non-uniform manner, was located on the lower section downstream slope (Photo 6 & 7).
- Benching was noted along the lower section of the upstream slope, creating steep slopes with some areas of exposed tree root systems (Photo 8).
- A pump house was built on the slope near the right portion of the dam. It is believed that the pump house was previously used to pump water to the golf course across the Bob Bollock Parkway from the dam. The pump house foundation was noted to have gaps within the embankment material (Photo 9 & 10).
- Large and small trees were noted along the lower section of the downstream slope (Photo 11).
- The roadway/berm appeared to be in fair condition with some alligator cracking (Photo 11).

- Large and small trees were noted along the upper section of the upstream slope along with decent grass coverage.
- Erosion rills were noted along the upper section, along with erosion caused by human traffic (Photo 12).
- The upstream slope was found to be in fair condition.

Downstream Slope

- The downstream slope had been flattened to a 3H:1V slope according to improvement plans, but varied along the entire length and appeared to have a steeper slope of 2.5H:1V in some areas (Photo 13).
- The downstream slope consisted of a 75% grass coverage with some bare spots where vegetation had re-established. There were many small mesquite trees (Photo 14).
- Erosion rills were located throughout a majority of the slope with some rills measuring 1 foot deep. Most were initiated midway on the slope and ending at the toe (Photo 15-17).
- Wetness was located on the left end of the slope, found on the lower 1/3 portion. The wetness was later determined to be caused from a broken 2 inch water line placed by the City of Laredo. An email sent from Mr. Santos on 11/6/2015, stated the water line would be repaired. A number of water lines and sprinkler heads were also found along the slope. They were installed during the 2012 improvements with the intent of irrigating the slope to facilitate vegetation establishment (Photo 18).
- A swampy and wet area was noted in the creek channel at the toe of the downstream slope. The area had large palm trees and a standing bog was noted downstream of the left abutment. Progressing to the right (downstream along Chacon Creek) the accumulated seepage began to show a visible flow in the creek channel.
- The flow in Chacon Creek channel was estimated to be 50 gpm under the Bob Bullock Bridge. Given the relatively dry conditions prior to inspection, it is hypothesized that the flow observed at the Bob Bullock Bridge was comprised of the combined seepage from the dam structure.
- The downstream slope was found to be in fair condition.

Service Spillway

- The service spillway is located approximately 900 yards left of the dam with an approximate width of 600 feet and a depth of 12 feet. An access road intersects the entire width of the spillway with two 30 inch culverts located underneath the road (Photo 19 & 20).
- The service spillway consists of good grass coverage and a number of small mesquite trees. The area is also noted to have a number of large trees and rough areas downstream of the access road.

- A small mound that appeared to be from dumped material was located southeast of the access road. This may impede the flow of water when the spillway is engaged (Photo 20).
- The service spillway was found to be in fair condition.

Emergency Spillway

- The emergency spillway is located near the park entrance, and consists of a wide flat area with several buildings and parking lots (Photo 21).
- Flows in the emergency spillway would discharge directly onto Bob Bullock Loop 20.
- The emergency spillway was found to be in fair condition.

Downstream Channel

Figure 2 shows Chacon Creek and its flow line as it passes under Bob Bullock Loop 20 (Photo 22 & 23). The service spillway empties into Chacon Creek, flows under Bob Bullock Loop 20, and eventually empties into the Rio Grande approximately 3.6 miles downstream of the dam. Chacon creek runs parallel to the toe of the dam from left to right. The creek channel was overgrown with salt cedars and thick vegetation, which prevented a thorough inspection of the area downstream of the toe. It was noted that the channel bottom was wet and swampy. There was no flow observed at the left end of the dam, but as one progressed toward the Bob Bollock Bridge, a visible flow was observed in the creek channel. While no specific areas of flow emergence were seen, it is hypothesized that the flow in the creek channel was from combined seepage from the dam structure. The flow in the channel under the bridge was estimated to be 50 gpm.

Flows from the emergency spillway would discharge directly onto Bob Bullock Loop 20 and would flow across the road to the golf course and/or along the roadway until they reconvened with the service spillway flows just downstream of the bridge.

CONFIDENTIAL: DOWNSTREAM HAZARDS, SECURITY

This dam is classified as a high hazard dam due to the close proximity of residential and commercial structures along with major roads and highways downstream of the dam, including park facilities and a major road located within the emergency spillway. In the event of a breach, inundated areas extend approximately 3.6 miles downstream of Lake Casa Blanca Dam to the confluence with the Rio Grande River and beyond. Residential areas southeast of East Saunders Street and Bob Bullock Loop are impacted by a Probable Maximum Flood (PMF) event. Further downstream a PMF event

would impact larger residential areas located east of North Arkansas Avenue and south of Clark Boulevard.

It should be noted that the hazard classification is not a description of the condition of the structure, but rather, a description of the potential for loss of downstream life or property in the event of a failure of the dam. The high hazard classification indicates that some potential for loss of life exists.

HYDROLOGIC / HYDRAULIC ANALYSES

This dam is required to safely pass 75% of the Probable Maximum Flood (PMF). Hydrologic and hydraulic analyses were performed for this structure in 2007 by Espey Consultants, Inc. The analyses showed predicted safe passage of 100% of the PMF through the primary and emergency spillway without overtopping. Additionally it was determined that the emergency spillway would engage at approximately 40% of the PMF. Lake Casa Blanca Dam is hydraulically adequate.

OPERATION AND MAINTENANCE (O&M) PLAN

The TCEQ received an Operation and Maintenance Plan (O&M) for the Lake Casa Blanca Dam on March 27, 2008.

EMERGENCY ACTION PLAN (EAP)

The TCEQ Dam Safety Program reviewed and accepted an Emergency Action Plan (EAP) for the Lake Casa Blanca Dam (update received August 6, 2010). The dam is overdue for the required annual EAP update and a 5 year table top exercise. EAPs must be reviewed annually and revised if necessary, according to provisions in 30 TAC Chapter 299, Section 299.61(g):

“The owner shall review the emergency action plan annually, update the emergency action plan as necessary, and submit a copy of the updated portions of the emergency action plan to the executive director annually beginning three years after the effective date of this section. If the emergency action plan was reviewed by the owner and no updates were necessary, the owner shall submit written notification to the executive director that no updates to the emergency action plan have been adopted or implemented.”

REQUIREMENTS/RECOMMENDATIONS

The following requirements and/or recommendations are provided:

1. The dam is overdue for the required annual EAP and a 5 year table top exercise along with updated with current contact information. EAPs

must be reviewed annually and revised if necessary, according to provisions in 30 TAC Chapter 299, Section 299.61(g).

2. The Chacon Creek Channel downstream of the dam should be thoroughly inspected for specific points of flow emergence and/or boils. While no such areas were observed during this inspection, the combined flow of the bridge suggests heavily that seepage is occurring under the dam or foundation. The amount of seepage (estimated at 50 gpm) is not particularly alarming for a dam this size. However, if subsequent inspections determines that individual points of concentrated flow emergence in excess of 5 -10 gpm, then the dam should be monitored for possible piping conditions. Since the dam once suffered a piping failure and evidence of dispersive soils is present, it is important to monitor for any evidence of piping. Clearing of brush and trees from the Chacon Creek channel may be necessary to facilitate such routine inspections.
3. The combined channel flow at the Bob Bullock Bridge should be routinely monitored for increase in flow, particularly during dry periods when runoff in flows to the creek are minimal. Any significant increases beyond 50 gpm baseline may suggest an increase in seepage or development of a piping condition.
4. Erosion gullies located predominately on the downstream slope and upstream slope areas should be repaired/stabilized under the supervision of a Licensed Texas Professional Engineer (LTPE).
5. Continue to establish the vegetative cover on the downstream slope and other bare spots lacking cover. Addition of topsoil and/or other amendments may be necessary to further facilitate growth. Consult with Natural Resources Conservation Services (NCRS) or AgriLife Extension Services for further guidance.
6. The lower section of the upstream slope (near the waterline) should be inspected by a LTPE to determined severity of benching, slides and trails (initiated by human traffic). Repairs/stabilization should be performed under the supervision of a LTPE.
7. Small trees and brush should be removed from both the upstream and downstream slopes. Removal of small trees with a trunk diameter of less than 4 inches should be filled with soil and compacted. Larger tress may remain until their natural death, dead stumps should be removed, filled and compacted with soil as well.
8. The downstream end of the spillway should be cleared and removed of small trees.

9. Sinkholes on the crest should be backfilled in order to prevent water seeping into the dam structure.
10. Waterlines and sprinkler heads intended for watering on the downstream slope should be monitored for any leakage.

CONCLUSIONS

It was noted that significant improvements have been made to repair the downstream slope and establish a vegetative cover. The improvements of the downstream slope and condition of the other areas of the dam have changed the overall condition of the dam from poor to fair. Proper maintenance of the downstream slope should emphasize on controlling small tree growth and complete establishment of a protective grass cover. Additionally a significant amount of improvements need to be made to the upstream slope to prevent erosion and benching.

The owner of this dam may be liable for downstream damages in the event of a spill or breach. It is the owner's responsibility to maintain the dam in a safe condition in order to prevent loss of life and limit the potential for property loss. In addition, regular maintenance may reduce future rehabilitation and repair costs. This structure will be scheduled for reinspection in 5 years, or in conjunction with any modifications.


Charles W. Schneider, P.E.
Dam Safety Section
Critical Infrastructure Division


Julian Romo
Dam Safety Section
Critical Infrastructure Division

TX02267- Lake Casa Blanca Dam



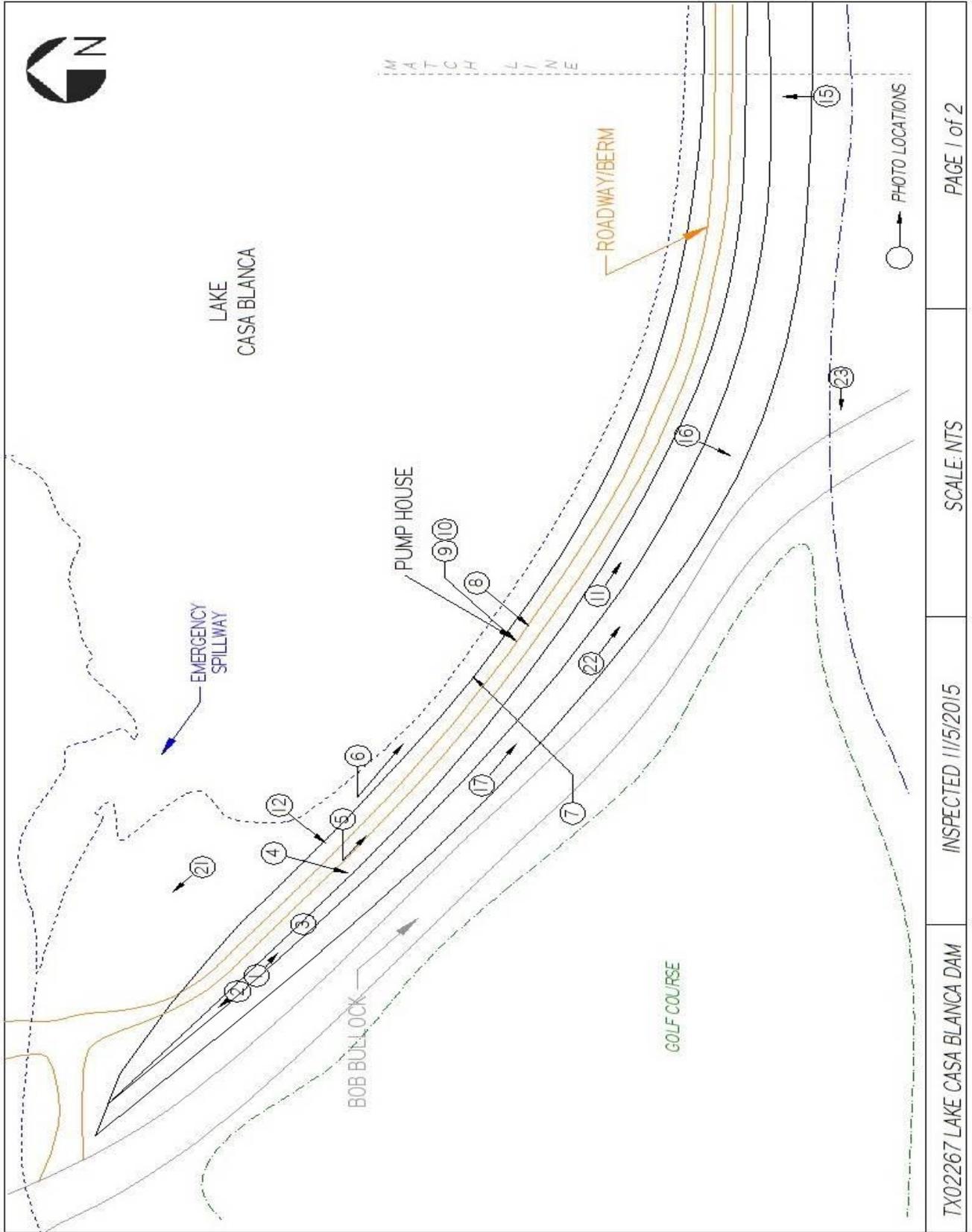
Figure 1. Location Map

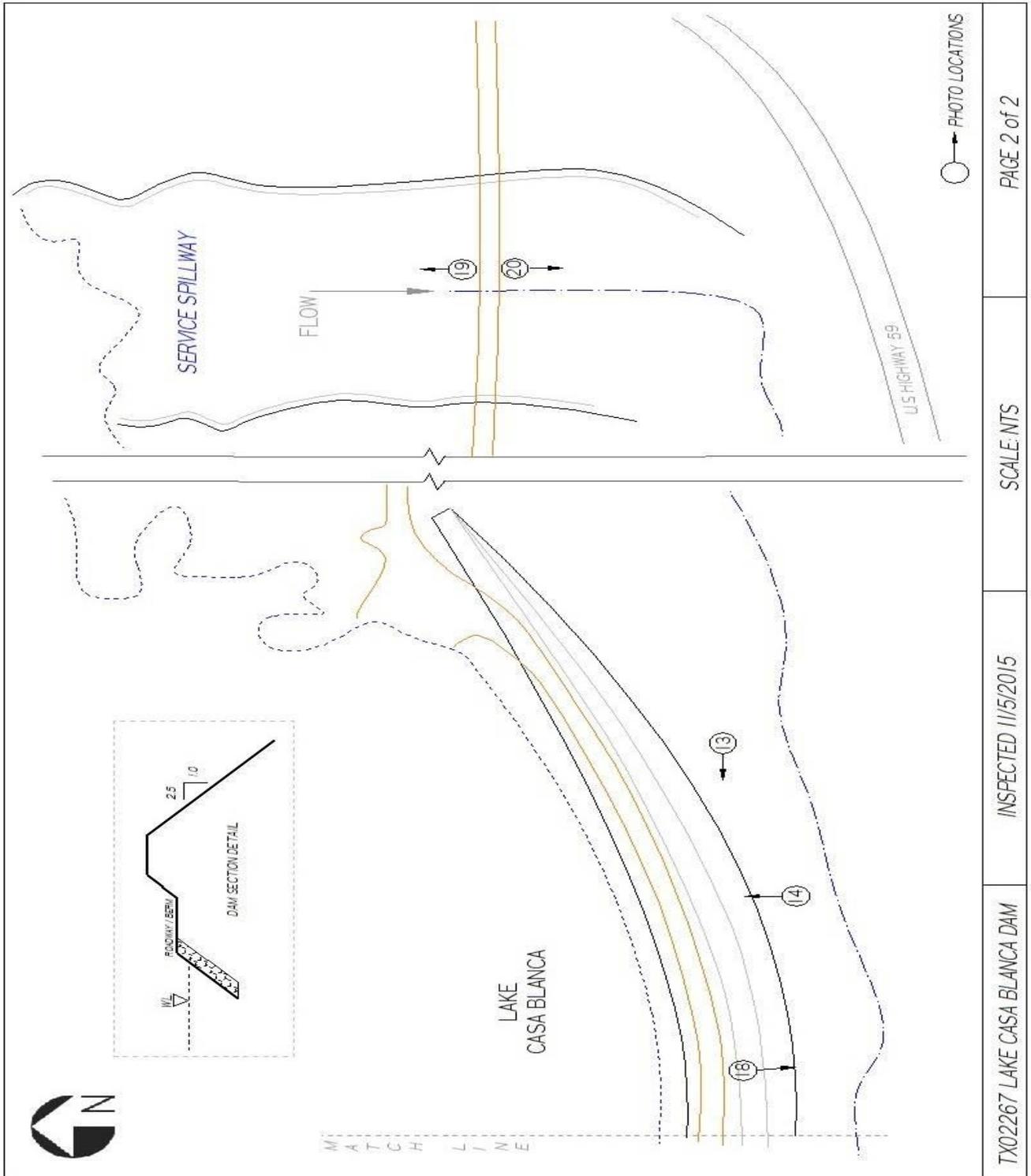


TX02267 - Lake Casa Blanca Dam



Figure 2 - Aerial Photo of Dam with Contours





TX02267 LAKE CASA BLANCA DAM	INSPECTED 11/5/2015	SCALE NTS	PAGE 2 of 2
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Photo 1. View of the crest path looking left. Note the grass, brush and trees encroaching on the edges of the crest path.



Photo 2. Reverse view of photo 1 on crest path looking right.

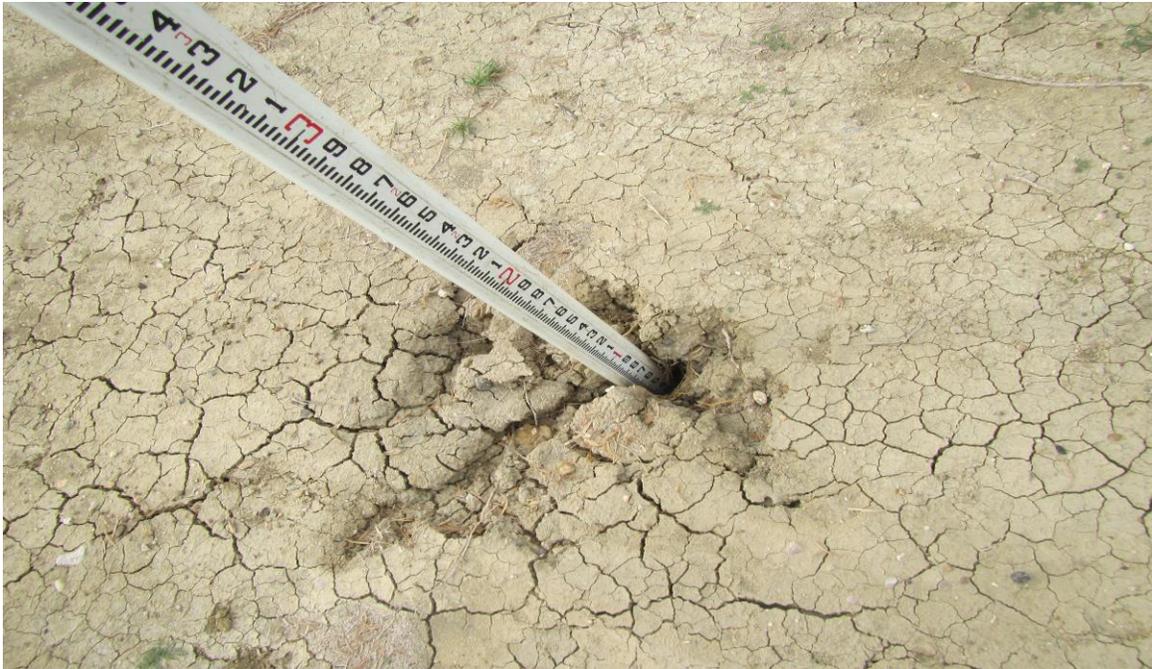


Photo 3. One of several sinkholes found on the crest.



Photo 4. Erosion initiated at the crest edge into the upstream slope.



Photo 5. View of the upstream looking left and its three sections: (From left to right) the lower portion near the water line, the roadway/berm, and the upper portion near the crest.



Photo 6. View of a typical section of the lower portion of the upstream slope looking left. Note the heavy tree growth, large rock and concrete riprap.



Photo 7. Photo of recycled concrete rip rap used to stabilize lower portion of upstream slope from wave action benching.



Photo 8. Photo of lower portion of upstream slope where wave action has eroded the embankment. Note the exposure of the tree root system.



Photo 9. View of old pump house on the lower portion of upstream slope.



Photo 10. Photo of old pump house foundation, note the gap from erosion of embankment material.



Photo 11. View of roadway/berm looking left, found to be in good condition. Note the trees located on the lower and upper sections of the upstream slope.



Photo 12. One of several erosion rills found on upper portion of upstream slope.



Photo 13. View of downstream slope looking right. Note the fair grass coverage and brush growth.



Photo 14. Additional view of downstream slope and the Bob Bullock freeway looking left. Note the good grass coverage, brush and young tree growth.



Photo 15. One of many erosion rills found throughout the downstream slope.



Photo 16. Additional photo of rills gullies found throughout the downstream slope.



Photo 17. Additional photo of erosion rills found throughout the downstream slope.



Photo 18. Photo of seepage found on downstream slope from a broken waterline. Seepage was located on the eastern side of the slope, found on the lower 1/3 portion.



Photo 19. View of service spillway located to the left of the dam, looking north. Note the good grass coverage.



Photo 20. View of service spillway looking south. Note the small mound and vegetation.



Photo 21. View of emergency spillway near entrance of the park.



Photo 22. View of Bob Bullock freeway (on the right), service spillway discharge will flow under freeway.



Photo 23. Photo of downstream channel, Chacon Creek, under Bob Bullock freeway. Flow was estimated to be 50 gpm.

Adjuster	Policy ID	File Date	Claim Number	Date of Loss	Date Reported to Act	Status	Close Date	Excess Reportable	Juris/Jur State	Location	Location	Major Coverage	Coverage	Litigated?	Incurred Total	Paid Total	Q's Reserve Total	Recovery	Body Part	Nature of Injury	Case	Accident Description
COLLIER BOB	03/01/2015	0312-26-21442-01	6/13/2016	6/13/2016	6/13/2016	F	8/30/2017		TX	1305	Fire Dept	Auto PD	Auto PD - Collision (AC)		1,781.22	1,781.22	0.00	0.00	Multiple Body Parts	Strain	Callison With Another Vehicle	IV WAS REARENDED BY DV CAUSING IV TO REAREND VEHICLE #8
COLLIER BOB	03/01/2015	0312-26-21442-02	6/7/2016	6/7/2016	6/7/2016	F	2/28/2017		TX	1302	Sherrif	Auto Liability	Auto Liability (B) (AB)		766.146	766.146	0.00	0.00	Multiple Body Parts	Strain	Callison With Another Vehicle	AMA - IV STRUCK DV
COLLIER BOB	03/01/2015	0312-26-21442-03	7/17/2016	7/17/2016	7/17/2016	F	8/24/2016		TX	1320	Building Maintenance	Auto Liability	Auto Liability (B) (AB)		766.146	766.146	0.00	0.00	No Physical Injury	No Physical Injury	Callison With Another Vehicle	IV UNITS L1 STRUCK PARKED VEHICLE
COLLIER BOB	03/01/2015	0312-26-21442-04	8/13/2016	8/13/2016	8/13/2016	F	12/29/2016		TX	1302	Sherrif	Auto Liability	Auto Liability (B) (AB)		766.13	766.13	0.00	0.00	Collabor or Liquid	No Physical Injury	Callison With Another Vehicle	IV STRUCK PARKED DV WITH DAMAGE TO BOTH VEHICLES
COLLIER BOB	03/01/2015	0312-26-21442-05	8/13/2016	8/13/2016	8/13/2016	F	3/28/2017		TX	1000	WRECK COUNTY	Auto Liability	Auto Liability (B) (AB)		3,200.00	3,200.00	0.00	0.00	Insufficent Info to Property Identify	All Other	Callison With Another Vehicle	IV FITROW AND STRUCK DV
O'SULLIVAN, BRISTEN	03/01/2015	0312-26-21442-06	9/13/2016	9/13/2016	9/13/2016	O	9/26/2016		TX	1000	WRECK COUNTY	Auto Liability	Auto Liability (B) (AB)		7,500.00	0.00	7,500.00	0.00	Insufficent Info to Property Identify	All Other	Callison With Another Vehicle	IV FITROW AND STRUCK DV
COLLIER BOB	03/01/2015	0312-26-21442-07	9/21/2016	9/21/2016	9/21/2016	F	3/7/2017		TX	1138	Coronado Pct 3	Auto PD	Auto PD - Collision (AC)		0.00	0.00	0.00	0.00	No Physical Injury	No Physical Injury	Callison With Another Vehicle	IV FITROW AND STRUCK IV #1412
O'SULLIVAN, BRISTEN	03/01/2015	0312-26-21442-08	9/29/2016	9/29/2016	9/29/2016	O	10/26/2016		TX	1280	Public Defender	Errors and Omissions	Employment Practices Liability (EM)		100.00	0.00	100.00	0.00	No Physical Injury	No Physical Injury	Other	ALLEGED VIOLATIONS OF TEXAS WRESTLEBLOWER ACT, FMLA, WHICH RESULTED IN TERMINATION
COLLIER BOB	03/01/2016	0312-26-21442-09	10/13/2016	10/13/2016	10/13/2016	F	11/2/2016		TX	1200	Head Part	Auto PD	Auto PD - Collision (AC)		0.00	0.00	0.00	0.00	No Physical Injury	No Physical Injury	Callison With Another Vehicle	IV SWE REBULOTR AND STRUCK INSURED VEHICLE
COLLIER BOB	03/01/2016	0312-26-21442-10	10/14/2016	10/14/2016	10/14/2016	F	3/7/2017		TX	1302	Sherrif	Auto Liability	Auto Liability (B) (AB)		0.00	0.00	0.00	0.00	No Physical Injury	No Physical Injury	Callison With Another Vehicle	VEHICLES TRAILING AND IRL - IV CUT INTENT OF TRAFFIC AND DV/TRACTORS STRUCK DV
COLLIER BOB	03/01/2016	0312-26-21442-11	10/19/2016	10/19/2016	10/19/2016	F	11/17/2016		TX	1260	Phonics	Rec Coverage	Rec Coverage (RC)		0.00	0.00	0.00	0.00	No Physical Injury	No Physical Injury	Other	ALLEGED ACTIONS TO GOVY BELIEVING APPROXIMATE WITHOUT LEGAL AUTHORITY BY COUNTY
COLLIER BOB	03/01/2016	0312-26-21442-12	11/13/2016	11/13/2016	11/13/2016	F	12/20/2016		TX	1160	District Attorney	Auto PD	Auto PD - Collision (AC)		0.00	0.00	0.00	0.00	No Physical Injury	No Physical Injury	Callison With Another Vehicle	IV WAS STRUCK BY DV WHILE PARKED
CHONGHANG, LISAAN	03/01/2016	0312-26-21442-13	11/18/2016	11/18/2016	11/18/2016	O	11/29/2016		TX	1004	Administrative Services	Errors and Omissions	Errors and Omissions (EO)		10,200.00	0.00	10,200.00	0.00	No Physical Injury	No Physical Injury	Other	ALLEGED VIOLATIONS OF OPEN MEETING ACT AND UNLAWFUL DETENTION
O'SULLIVAN, BRISTEN	03/01/2016	0312-26-21442-14	12/8/2016	12/8/2016	12/8/2016	F	4/26/2017		TX	1139	Coronado Pct 4	Auto Liability	Auto Liability (B) (AB)		4,877.48	4,877.48	0.00	0.00	No Physical Injury	No Physical Injury	Callison With Another Vehicle	IV WAS FOLLOWING OF CLOONEY AND STRUCK DV IN REAR
O'SULLIVAN, BRISTEN	03/01/2016	0312-26-21442-15	12/19/2016	12/19/2016	12/19/2016	F	4/5/2017		TX	1139	Coronado Pct 1	Auto PD	Auto PD - Collision (AC)		0.00	0.00	0.00	0.00	No Physical Injury	No Physical Injury	Callison With Another Vehicle	AMA - IV PARK STOP SIGN AND STRUCK IV
COLLIER BOB	03/01/2016	0312-27-21441-01	1/11/2017	1/11/2017	1/11/2017	F	3/5/2017		TX	1244	Medical Examiners Office	Auto Liability	Auto Liability (B) (AB)		789.36	789.36	0.00	0.00	No Physical Injury	No Physical Injury	Callison With Another Vehicle	IV BACKED INTO DV IN PARKING LOT
O'SULLIVAN, BRISTEN	03/01/2016	0312-27-21441-02	1/19/2017	1/19/2017	1/19/2017	F	5/4/2017		TX	1302	Traffic Dept	Auto PD	Auto PD - Collision (AC)		100.00	0.00	100.00	0.00	No Physical Injury	No Physical Injury	Callison With Another Vehicle	IV REARENDED DV
COLLIER BOB	03/01/2016	0312-27-21441-03	1/19/2017	1/19/2017	1/19/2017	F	2/23/2017		TX	1138	Coronado Pct 3	Auto PD	Auto PD - Collision (AC)		0.00	0.00	0.00	0.00	No Physical Injury	No Physical Injury	Callison With Another Vehicle	IV WAS REARENDED DURING TRAFFIC STOP
COLLIER BOB	03/01/2016	0312-27-21441-04	3/17/2017	3/17/2017	3/17/2017	F	4/7/2017		TX	1137	Coronado Pct 2	Auto Liability	Auto Liability (B) (AB)		0.00	0.00	0.00	0.00	No Physical Injury	No Physical Injury	Callison With Another Vehicle	OV FITROW AND STRUCK IV
O'SULLIVAN, BRISTEN	03/01/2016	0312-27-21441-05	4/11/2017	4/11/2017	4/11/2017	O	5/11/2017		OK	1220	HAEP	Property	Property (PR)		7,500.00	0.00	7,500.00	0.00	No Physical Injury	No Physical Injury	Other	STORM DAMAGE TO BUILDINGS CAUSED WATER LEAKS - DAMAGED CEILING FLOOR, CARPET, SURVEILLANCE CAMERAS AND PORTABLE BUILDING
O'SULLIVAN, BRISTEN	03/01/2016	0312-27-21441-06	4/11/2017	4/11/2017	4/11/2017	O	6/7/2017		TX	1302	Sherrif	Auto PD	Auto PD - Collision (AC)		500.00	0.00	500.00	0.00	Collabor or Liquid	No Physical Injury	Callison With Another Vehicle	IV WAS STRUCK BY TRUCK THAT WAS OVERTAKING
O'SULLIVAN, BRISTEN	03/01/2016	0312-27-21441-07	5/2/2017	5/2/2017	5/2/2017	O	5/30/2017		OK	1302	Sherrif	Auto Liability	Auto Liability (B) (AB)		2,500.00	147.79	2,352.21	0.00	No Physical Injury	No Physical Injury	Callison With Another Vehicle	OV WAS STOPPED WAITING OF TRACTOR TRAILER TO BACK FROM PROPERTY AND IV REARENDED DV
O'SULLIVAN, BRISTEN	03/01/2016	0312-27-21441-08	5/2/2017	5/2/2017	5/2/2017	O	5/30/2017		OK	1302	Sherrif	Auto Liability	Auto Liability (B) (AB)		2,500.00	0.00	2,500.00	0.00	Insufficent Info to Property Identify	All Other	Callison With Another Vehicle	OV WAS STOPPED WAITING OF TRACTOR TRAILER TO BACK FROM PROPERTY AND IV REARENDED DV
O'SULLIVAN, BRISTEN	03/01/2016	0312-27-21441-09	5/2/2017	5/2/2017	5/2/2017	O	5/30/2017		OK	1302	Sherrif	Auto Liability	Auto Liability (B) (AB)		2,500.00	0.00	2,500.00	0.00	Insufficent Info to Property Identify	All Other	Callison With Another Vehicle	OV WAS STOPPED WAITING OF TRACTOR TRAILER TO BACK FROM PROPERTY AND IV REARENDED DV
O'SULLIVAN, BRISTEN	03/01/2016	0312-27-21441-10	5/21/2017	5/21/2017	5/21/2017	O	5/24/2017		TX	1200	Head Part	Property	Property (PR)		25,000.00	0.00	25,000.00	0.00	Water Damage	All Other	Other	STORM DAMAGED COURTYARD BUILDING DAMAGED BY STORM
O'SULLIVAN, BRISTEN	03/01/2016	0312-27-21441-11	5/21/2017	5/21/2017	5/21/2017	O	5/24/2017		TX	1000	1111 District Court	Property	Property (PR)		25,000.00	0.00	25,000.00	0.00	Collaps	All Other	Other	STORM DAMAGED COURT HOUSE BUILDING