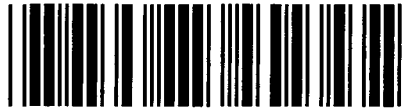




Control Number: 50271



Item Number: 1

Addendum StartPage: 0



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2019 NOV 21 PM 12: 14

PUBLIC UTILITY COMMISSION
FILING CLERK

November 19, 2019

Public Utility Commission of Texas
Attention: Filing Clerk
1701 N. Congress Avenue
PO Box 13326
Austin, Texas 78711-3326

50271

**Re: Application to Amend Water and Sewer CCNs
City of Midland
Water CCN 10221 and Sewer CCN 20083**

Dear Sir / Madam:

Enclosed with this letter are one original and six copies of the Application to Obtain or Amend a Water and Sewer Certificate of Convenience and Necessity (CCN) for the City of Midland (City). One of the six copies is filed with no bindings, staples, tabs or separators, is printed on both sides of the paper, and is consecutively numbered starting with the first page of the table of contents. The electronic submittal has been filed, and the Tracking Sheet is included in the original application and each copy. Seven copies of digital map data on portable electronic storage medium are also enclosed. Enprotec / Hibbs & Todd, Inc. (eHT) is acting on behalf of the City for this application and I will be the technical contact for this application. Please feel free to contact me with any questions or comments via telephone at 325/698-5560, via email at luci.dunn@e-ht.com, or in writing at the Abilene Office address listed below.

Sincerely,

Enprotec / Hibbs and Todd, Inc.

Luci Dunn, P.E.
Senior Project Manager

LD/d

c: Carl Craigo, P.E., Director of Utilities, City of Midland (Via Email)
Cory Moose, Assistant Utilities Director, City of Midland (Via Email)
Project File 7358

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Environmental, Civil & Geotechnical Engineers

Abilene Office
402 Cedar
Abilene, Texas 79601
P.O. Box 3097
Abilene, Texas 79604
325.698 5560 | 325 690 3240 fax

Lubbock Office
6310 Genoa Avenue, Suite E
Lubbock, Texas 79424
806.794 1100 | 806.794.0778 fax

www.e-ht.com

Granbury Office
1310 Weatherford Highway, Suite 116
Granbury, Texas 76048
682 498 6000 | 682.498.6293 fax

PE Firm Registration No. 1151
PG Firm Registration No. 50103
RPLS Firm Registration No. 10011900

18802

**APPLICATION TO AMEND THE CITY OF
MIDLAND'S CERTIFICATE OF CONVENIENCE
AND NECESSITY FOR WATER AND SEWER
SERVICE**

RECEIVED
PUBLIC UTILITY COMMISSION
2019 NOV 21 AM 10:18
OFFICE OF THE PUBLIC UTILITY COMMISSION
FILING CLERK

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Section	Pages	File Name
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Application Cover Sheet	4	Amendment.doc
Application	5-15	Amendment.doc
Applicant's Oath	16	Amendment.doc
Attachment A – Description of Proposed CCN Areas	17-19	Amendment.doc
Attachment B – CCN Area Maps	20-34	Amendment.doc
Attachment C – Inspection Reports	35-101	Amendment.doc
Attachment D – Midland Financial Information	102-582	Amendment.doc
Attachment E – Midland Rate Schedule	583-584	Amendment.doc
Attachment F – Existing Infrastructure Maps	585-587	Amendment.doc
Attachment G – Reports Supporting Area Growth	588-589	Amendment.doc
Attachment H – List of Midland Operators	590-592	Amendment.doc
Attachment I – Northeast Water System Improvements TCEQ Submittal	593-603	Amendment.doc
Attachment J – Public Notices	604-621	Amendment.doc

File Name	File Types
SEWER-AREA1	.pdf, .shp, .dwg, .dbf, .idx, .prj
SEWER-AREA2	.pdf, .shp, .dwg, .dbf, .idx, .prj
SEWER-AREA3	.pdf, .shp, .dwg, .dbf, .idx, .prj
SEWER-AREA4	.pdf, .shp, .dwg, .dbf, .idx, .prj
SEWER-AREA5	.pdf, .shp, .dwg, .dbf, .idx, .prj
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WATER-AREA5	.pdf, .shp, .dwg, .dbf, .idx, .prj
WATER-AREA6	.pdf, .shp, .dwg, .dbf, .idx, .prj





November 19, 2019

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Attention: Filing Clerk
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City of Midland
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Enrotec / Hibbs and Todd, Inc.

Luci Dunn, P.E.
Senior Project Manager

LD/jd

c: Carl Craig, P.E., Director of Utilities, City of Midland (Via Email)
Cory Moose, Assistant Utilities Director, City of Midland (Via Email)
Project File 7358

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Environmental, Civil & Geotechnical Engineers

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682.498.6000 | 682.498.6293 fax

PE Firm Registration No. 1151
PG Firm Registration No. 50103
RPLS Firm Registration No. 10011900



Luci Dunn

From: noreply@puc.texas.gov
Sent: Tuesday, November 19, 2019 4:09 PM
To: Luci Dunn
Subject: PUC Filing submission confirmation.

Filing Complete

Next Steps:

You have completed the electronic portion of your filing, however, in order for the PUC to be able to process your filing, you must submit this tracking number with your paper copies. You may print and include this page or the confirmation email you received. For any questions about the number of copies, please see the following page:
<http://www.puc.texas.gov/industry/filings/FilingProceed.aspx> **Central Records: (512) 936-7180**

Tracking Number: KAKFRNXC

Filing Submitted on 11/19/2019 4:08:48 PM

Control Number *A new control number was requested.*

Filing Party City of Midland

Filing Type PROJECT

Description Application to Amend Water CCN 10221 and Sewer CCN 20083 with applicable attachments

Documents

- Amendment.pdf
- SEWER - AREA 1.dbf
- SEWER - AREA 1.idx
- SEWER - AREA 1.prj
- SEWER - AREA 1.shp
- SEWER - AREA 1.shx
- SEWER - AREA 2.dbf
- SEWER - AREA 2.idx
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- SEWER-AREA2.pdf
- SEWER-AREA3.pdf
- SEWER-AREA4.pdf
- SEWER-AREA5.pdf
- SEWER-AREA6.pdf
- SEWER-AREA7.pdf
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- WATER-AREA2.pdf
- WATER-AREA3.pdf
- WATER-AREA4.pdf
- WATER-AREA5.pdf
- WATER-AREA6.pdf

Addendum Included No

Submitted By

Luci Dunn
402 Cedar St
Abilene, TX 79601
3256985560
luci.dunn@e-ht.com



CITY OF MIDLAND

CERTIFICATE OF CONVENIENCE
AND NECESSITY (CCN) AMENDMENT

NOVEMBER 2019

Prepared by:



Enprotec / Hibbs & Todd

402 Cedar, Abilene, Texas 79601

Phone: (325) 698-5560 / Fax: (325) 690-3240

Website: e-ht.com

PE Firm Registration No. 1151

PG Firm Registration No. 50103

RPLS Firm Registration No. 10011900





Application to Obtain or Amend a Water or Sewer Certificate of Convenience and Necessity (CCN)

Pursuant to 16 Texas Administrative Code (TAC) Chapter 24, Substantive Rules Applicable to Water and Sewer Service Providers, Subchapter G: Certificates of Convenience and Necessity

CCN Application Instructions

- I. **COMPLETE:** In order for the Commission to find the application sufficient for filing, you should adhere to the following:
 - i. Answer every question and submit all required attachments.
 - ii. Use attachments or additional pages if needed to answer any question. If you use attachments or additional pages, reference their inclusion in the form.
 - iii. Provide all mapping information as detailed in Part F: Mapping & Affidavits.
 - iv. Provide any other necessary approvals from the Texas Commission on Environmental Quality (TCEQ), or evidence that a request for approval is being sought at the time of filing with the Commission.
- II. **FILE:** Seven (7) copies of the completed application with numbered attachments. One copy should be filed with no permanent binding, staples, tabs, or separators; and 7 copies of the portable electronic storage medium containing the digital mapping data.
SEND TO: Public Utility Commission of Texas, Attention: Filing Clerk, 1701 N. Congress Avenue, P.O. Box 13326, Austin, Texas 78711-3326 (NOTE: Electronic documents may be sent in advance of the paper copy; however, they will not be processed and added to the Commission's on-line Interchange until the paper copy is received and file-stamped in Central Records).
- III. The application will be assigned a docket number, and an administrative law judge (ALJ) will issue an order requiring Commission Staff to file a recommendation on whether the application is sufficient. The ALJ will issue an order after Staff's recommendation has been filed:
 - i. **DEFICIENT (Administratively Incomplete):** Applicant will be ordered to provide information to cure the deficiencies by a certain date (usually 30 days from ALJ's order). *Application is not accepted for filing.*
 - ii. **SUFFICIENT (Administratively Complete):** Applicant will be ordered by the ALJ to give appropriate notice of the application using the notice prepared by Commission Staff. *Application is accepted for filing.*
- IV. Once the Applicant issues notice, a copy of the actual notice sent (including any map) and an affidavit attesting to notice should be filed in the docket assigned to the application. Recipients of notice may choose to take one of the following actions:
 - i. **HEARING ON THE MERITS:** an affected party may request a hearing on the application. The request must be made within 30 days of notice. If this occurs, the application may be referred to the State Office of Administrative Hearings (SOAH) to complete this request.
 - ii. **LANDOWNER OPT-OUT:** A landowner owning a qualifying tract of land (25+ acres) may request to have their land removed from the requested area. The Applicant will be requested to amend its application and file new mapping information to remove the landowner's tract of land, in conformity with this request.
- V. **PROCEDURAL SCHEDULE:** Following the issuance of notice and the filing of proof of notice in step 4, the application will be granted a procedural schedule for final processing. During this time the Applicant must respond to hearing requests, landowner opt-out requests, and requests for information (RFI). The Applicant will be requested to provide written consent to the proposed maps, certificates, and tariff (if applicable) once all other requests have been resolved.
- VI. **FINAL RECOMMENDATION:** After receiving all required documents from the Applicant, Staff will file a recommendation on the CCN request. The ALJ will issue a final order after Staff's recommendation is filed.

FAQ:

Who can use this form?

Any retail public utility that provides or intends to provide retail water or wastewater utility service in Texas.

Who is required to use this form?

A retail public utility that is an investor owned utility (IOU) or a water supply corporation (WSC) must use this form to obtain or amend a CCN prior to providing retail water or sewer utility service in the requested area.

What is the purpose of the application?

A CCN Applicant is required to demonstrate financial, managerial, and technical (FMT) capability to provide continuous and adequate service to any requested area. The questions in the application are structured to support an Applicant's FMT capabilities, consistent with the regulatory requirements.



Application Summary

Applicant: City of Midland

CCN No. to be amended: Water: 10221 and Sewer: 20083

or Obtain NEW CCN Water Sewer

County(ies) affected by this application: Midland County, Martin County

Dual CCN requested with: _____

N/A - Dual CCN not requested

CCN No.: _____ (name of retail public utility) Portion or All of requested area

Decertification of CCN for: _____

N/A - Decertification not requested

CCN No.: _____ (name of retail public utility) Portion or All of requested area

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CCN Application Instructions 1

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Part B: Requested Area Information 4

Part C: CCN Obtain or Amend Criteria Considerations 6

Part D: TCEQ Public Water System or Sewer (Wastewater) Information 7

Part E: Financial Information 9

Part F: Mapping & Affidavits..... 10

Part G: Notice Information..... 11

Appendix A: Historical Financial Information (Balance Sheet and Income Schedule)..... 13

Appendix B: Projected Information..... 16

Please mark the items included in this filing

- | | |
|--|-----------------------|
| <input type="checkbox"/> Partnership Agreement | Part A: Question 4 |
| <input type="checkbox"/> Articles of Incorporation and By-Laws (WSC) | Part A: Question 4 |
| <input type="checkbox"/> Certificate of Account Status | Part A: Question 4 |
| <input type="checkbox"/> Franchise, Permit, or Consent letter | Part B: Question 7 |
| <input checked="" type="checkbox"/> Existing Infrastructure Map | Part B: Question 8 |
| <input type="checkbox"/> Customer Requests For Service in requested area | Part B: Question 9 |
| <input checked="" type="checkbox"/> Population Growth Report or Market Study | Part B: Question 10 |
| <input type="checkbox"/> TCEQ Engineering Approvals | Part B: Question 11 |
| <input type="checkbox"/> Requests & Responses For Service to 1/2 mile utility providers | Part B: Question 12.B |
| <input type="checkbox"/> Economic Feasibility (alternative provider) Statement | Part B: Question 12.C |
| <input type="checkbox"/> Alternative Provider Analysis | Part B: Question 12.D |
| <input type="checkbox"/> Enforcement Action Correspondence | Part C: Question 16 |
| <input checked="" type="checkbox"/> TCEQ Compliance Correspondence | Part D: Question 20 |
| <input type="checkbox"/> Purchased Water Supply or Treatment Agreement | Part D: Question 23 |
| <input type="checkbox"/> Rate Study (new market entrant) | Part E: Question 28 |
| <input checked="" type="checkbox"/> Tariff/Rate Schedule | Part E: Question 29 |
| <input type="checkbox"/> Financial Audit | Part E: Question 30 |
| <input checked="" type="checkbox"/> Application Attachment A & B City of Midland 2018 CAFR | Part E: Question 30 |
| <input checked="" type="checkbox"/> Capital Improvement Plan | Part E: Question 30 |
| <input type="checkbox"/> Disclosure of Affiliated Interests | Part E: Question 31 |
| <input checked="" type="checkbox"/> Detailed (large scale) Map | Part F: Question 32 |
| <input checked="" type="checkbox"/> General Location (small scale) Map | Part F: Question 32 |
| <input checked="" type="checkbox"/> Digital Mapping Data | Part F: Question 32 |
| <input checked="" type="checkbox"/> Signed & Notarized Affidavit | Page 12 |



Part A: Applicant Information

1. A. Name: City of Midland
(individual, corporation, or other legal entity)
 Individual Corporation WSC Other: Municipality

B. Mailing Address: P.O. Box 1152
Midland, Texas 79702

Phone No.: (432) 685-7260 Email: ccraigo@midlandtexas.gov

C. Contact Person. Please provide information about the person to be contacted regarding this application. Indicate if this person is the owner, operator, engineer, attorney, accountant, or other title.

Name: Luci Dunn, P.E. with eHT (Consultant) Title: Senior Project Manager

Mailing Address: P.O. Box 397, Abilene, Texas 79604

Phone No.: (325) 698-5560 Email: luci.dunn@e-ht.com

2. If the Applicant is someone other than a municipality, is the Applicant currently paid in full on the Regulatory Assessment Fees (RAF) remitted to the TCEQ?

Yes No N/A

3. If the Applicant is an Investor Owned Utility (IOU), is the Applicant current on Annual Report filings with the Commission?

N/A - Applicant is not an IOU

Yes No If no, please state the last date an Annual Report was filed: _____

4. The legal status of the Applicant is:

- Individual or sole proprietorship
- Partnership or limited partnership (*attach* Partnership agreement)
- Corporation: Charter number (recorded with the Texas Secretary of State): _____
- Non-profit, member-owned, member controlled Cooperative Corporation [Article 1434(a) Water Supply or Sewer Service Corporation, incorporated under TWC Chapter 67]
Charter number (as recorded with the Texas Secretary of State): _____
- Articles of Incorporation and By-Laws established (*attach*)
- Municipally-owned utility
- District (MUD, SUD, WCID, FWSD, PUD, etc.)
- County
- Affected County (a county to which Subchapter B, Chapter 232, Local Government Code, applies)
- Other (please explain): _____

5. If the Applicant operates under an assumed name (i.e., any d/b/a), provide the name below:

Name: City of Midland



Part B: Requested Area Information

6. Provide details on the existing or expected land use in the requested area, including details on requested actions such as dual certification or decertification of service area.

The City of Midland (City) is requesting an extension of its single certification for water and sewer service to include the entire area within the Midland city limits. The City currently holds a CCN for much of the area, as well as some areas outside of the city limits, but an extension is requested. The entire requested area is located within the city limits and the land use includes residential, agricultural, commercial, and industrial use. No decertification of areas within the existing CCN are requested.

7. The requested area (check all applicable):

- Currently receives service from the Applicant Is being developed with no current customers
 Overlaps or is within municipal boundaries Overlaps or is within district boundaries

Municipality: City of Midland District: Midland

Provide a copy of any franchise, permit, or consent granted by the city or district. If not available please explain:

The areas that the City is requesting be added to their CCN are within the City limits, and the City does not need to provide consent to itself. No franchise, permit, or consent is included in the application because it is not necessary.

8. Describe the circumstances (economic, environmental, etc.) driving the need for service in the requested area:

The City is one of the fastest growing cities in the country due to the booming oil industry. The growth in the City requires that the City extend its CCN and provide water and sewer service to the new customers within the city limits.

9. Has the Applicant received any requests for service within the requested area?

- Yes* No *Attach copies of all applicable requests for service and show locations on a map

10. Is there existing or anticipated growth in the requested area?

- Yes* No *Attach copies of any reports and market studies supporting growth

11. A. Will construction of any facilities be necessary to provide service to the requested area?

- Yes* No *Attach copies of TCEQ approval letters

B. Date Plans & Specifications or Discharge Permit App. submitted to TCEQ: _____

The Northeast Water and Wastewater System Improvements Projects are both in the planning phases and nothing has been submitted to TCEQ for review at this time. TCEQ approval of the projects will be obtained as required by state regulations.



C. Summarize an estimated timeline for construction for any required facilities to serve the requested area:

Construction of the proposed northeast water system improvements project and the proposed northeast wastewater system improvements project are anticipated to begin on January 1, 2020 and be completed by January 1, 2023. The Summary Transmittal Letter of the Northeast Water System Improvements to TCEQ is included in Attachment I. Construction at the City's Water Pollution Control Plant (WPCP) is underway and is anticipated to be completed in 2020.

D. Describe the source and availability of funds for any required facilities to serve the requested area:

The City is anticipated to utilize local bond funding to finance the construction of the proposed northeast water system improvements project and the proposed northeast wastewater system improvements project. The upgrades at the WPCP are funded by Pioneer as part of an agreement with the City.

Note: Failure to provide applicable TCEQ construction or permit approvals, or evidence showing that the construction or permit approval has been filed with the TCEQ may result in the delay or possible dismissal of the application.

12. A. If construction of a physically separate water or sewer system is necessary, provide a list of all retail public water and/or sewer utilities within one half mile from the outer boundary of the requested area below:

N/A - construction of a physically separate water or sewer system is not necessary because the City of Midland's water and sewer systems have been previously constructed.
For informational purposes, the retail water utilities within one half mile from the requested area are: Greater Gardendale WSC (12081) and South Midland County Water System (13223). There are no known sewer utilities within one half mile from the requested area.

B. Did the Applicant request service from each of the above water or sewer utilities?

Yes* No *Attach copies of written requests and copies of the written response

C. Attach a statement or provide documentation explaining why it is not economically feasible to obtain retail service from the water or sewer retail public utilities listed above.

D. If a neighboring retail public utility agreed to provide service to the requested area, attach documentation addressing the following information:

- (A) A description of the type of service that the neighboring retail public utility is willing to provide and comparison with service the applicant is proposing;
- (B) An analysis of all necessary costs for constructing, operating, and maintaining the new facilities for at least the first five years of operations, including such items as taxes and insurance; and
- (C) An analysis of all necessary costs for acquiring and continuing to receive service from the neighboring retail public utility for at least the first five years of operations.

13. Explain the effect of granting the CCN request on the Applicant, any retail public utility of the same kind serving in the proximate area, and any landowners in the requested area. The statement should address, but is not limited to, regionalization, compliance, and economic effects.



Expansion of the CCN will benefit the applicant because the City will maintain a legal right to provide water and sewer service to all of the customers within the city limits. Additionally, much of the proposed additional areas are already served by the City, and the proposed northeast water system improvements and northeast wastewater system improvements projects will improve the service quality in the rapidly developing northeast area of the City; the improved service quality will benefit the landowners. No other public utilities will be impacted because the expansion of the CCN will not encroach upon any areas which are currently served by other utilities.

Part C: CCN Obtain or Amend Criteria Considerations

14. Describe the anticipated impact and changes in the quality of retail utility service for the requested area:

The only change in the quality of utility service is improved water pressure and collection system improvements in the northeast portion of the City due to the proposed northeast water system improvements and the proposed northeast wastewater system improvements projects. The expansion of the CCN will not have a direct impact to the quality of water or sewer service.

15. Describe the experience and qualifications of the Applicant in providing continuous and adequate retail service:

Historically, the applicant has consistently provided water and sewer service to its existing service area. The City is anticipated to continue to reliably service its growing service area. The City has begun planning for improved service in the rapidly-developing areas and has initiated the design of northeast water system improvements and northeast wastewater system improvements as well as significant improvements at the City's Water Purification and Water Pollution Control Plants.

16. Has the Applicant been under an enforcement action by the Commission, TCEQ, Texas Department of Health (TDH), the Office of the Attorney General (OAG), or the Environmental Protection Agency (EPA) in the past five (5) years for non-compliance with rules, orders, or state statutes?

Yes* No

*Attach copies of any correspondence with the applicable regulatory agency concerning any enforcement actions, and attach a description of any actions or efforts the Applicant has taken to comply with these requirements.

17. Explain how the environmental integrity of the land will or will not be impacted or disrupted as a result of granting the CCN as requested:

The City is already serving a number of connections within the requested CCN area, so the new CCN area will not have a negative impact on the environmental integrity of the land.

18. Has the Applicant made efforts to extend retail water or sewer utility service to any economically distressed area located within the requested area?

The City has not made specific efforts to extend water or sewer utility service to economically distressed areas within the requested area; the City provides water and sewer utility service to areas which request service and which the City has the capacity and infrastructure to serve.



19. List all neighboring water or sewer retail public utilities, cities, districts (including ground water conservation districts), counties, or other political subdivisions (including river authorities) providing the same service located within two (2) miles from the outer boundary of the requested area:

Water: Greater Gardendale WSC (13081), South Midland County Water System (13223), and Greenwood Terrace MHP LLC (13003)
 There are no sewer utilities within two miles of the outer boundary of the requested area.

Part D: TCEQ Public Water System or Sewer (Wastewater) Information

20. A. Complete the following for **all** Public Water Systems (PWS) associated with the Applicant's CCN:

TCEQ PWS ID:	Name of PWS:	Date of TCEQ inspection*:	Subdivisions served:
TX1650001	City of Midland Water Purification Plant	10/31/2016	City of Midland

*Attach evidence of compliance with TCEQ for each PWS

- B. Complete the following for **all** TCEQ Water Quality (WQ) discharge permits associated with the Applicant's CCN:

TCEQ Discharge Permit No:	Date Permit expires:	Date of TCEQ inspection*:	Subdivisions served:
WQ- 0010223001	12/1/2019	12/15/2015	City of Midland
WQ-			
WQ-			
WQ-			

*Attach evidence of compliance with TCEQ for each Discharge Permit

- C. The requested CCN service area will be served via: PWS ID: TX1650001
WQ - 0010223001

21. List the number of **existing** connections for the PWS & Discharge Permit indicated above (Question 20. C.):

Water				Sewer	
1,188	Non-metered	2,205	2"	37,094	Residential
28,845	5/8" or 3/4"	253	3"	2,855	Commercial
10,830	1"	36	4"	0	Industrial
1230	1 1/2"	35	Other	333	Other
Total Water Connections:			44,622	Total Sewer Connections:	40,282

22. List the number of **additional** connections projected for the requested CCN area:

Water				Sewer	
0	Non-metered	500	2"	5,000	Residential
5,000	5/8" or 3/4"	0	3"	2,000	Commercial
2,000	1"	0	4"	0	Industrial
500	1 1/2"	0	Other	0	Other
Total Water Connections:			8,000	Total Sewer Connections:	7,000



23. A. Will the system serving the requested area purchase water or sewer treatment capacity from another source?

Yes* No *Attach a copy of purchase agreement or contract.

Capacity is purchased from:

Water: N/A

Sewer: N/A

B. Are any of the Applicants PWS's required to purchase water to meet the TCEQ's minimum capacity requirements or TCEQ's drinking water standards?

Yes No

C. What is the amount of supply or treatment purchased, per the agreement or contract? What is the percent of overall demand supplied by purchased water or sewer treatment (if any)?

N/A - the City does not purchase water or sewer treatment

	Amount in Gallons	Percent of demand
Water:		0%
Sewer:		0%

24. Does the PWS or sewer treatment plant have adequate capacity to meet the current and projected demands in the requested area?

Yes No

25. List the name, class, and TCEQ license number of the operators that will be responsible for the operations of the water or sewer utility service provided to the requested area:

Name (as it appears on license)	Class	License No.	Water/Sewer
See Attachment			

26. A. Are any improvements required for the existing PWS or sewer treatment plant to meet TCEQ or Commission standards?

Yes No

B. Provide details on each required major capital improvement necessary to correct deficiencies to meet the TCEQ or Commission standards (attach any engineering reports or TCEQ approval letters):

Description of the Capital Improvement:	Estimated Completion Date:	Estimated Cost:

27. Provide a map (or maps) showing all facilities for production, transmission, and distribution, and the location of existing or proposed customer connections, in the requested area. Facilities should be identified on subdivision plats, engineering planning maps, or other large scale maps. Color coding can be used, and is encouraged, to distinguish types of facilities.



Part E: Financial Information

28. If the Applicant seeking to obtain a CCN for the first time is an Investor Owned Utility (IOU) and under the original rate jurisdiction of the Commission, a proposed tariff must be attached to the application. The proposed rates must be supported by a rate study, which provides all calculations and assumptions made. Once a CCN is granted, the Applicant must submit a rate filing package with the Commission within 18 months from the date service begins. The purpose of this rate filing package is to revise a utility's tariff to adjust the rates to a historic test year and to true up the new tariff rates to the historic test year. It is the Applicant's responsibility in any future rate proceeding to provide written evidence and support for the original cost and installation date of all facilities used and useful for providing utility service. Any dollar amount collected under the rates charged during the test year in excess of the revenue requirement established by the Commission during the rate change proceeding shall be reflected as customer contributed capital going forward as an offset to rate base for ratemaking purposes.

29. If the Applicant is an existing IOU, please attach a copy of the current tariff and indicate:

A. Effective date for most recent rates: _____

N/A - Applicant is not an IOU

B. Was notice of this increase provided to the Commission or a predecessor regulatory authority?

No Yes

Application or Docket Number: _____

C. If notice was not provided to the Commission, please explain why (ex: rates are under the jurisdiction of a municipality)

N/A - Rates are under the jurisdiction of a municipality

If the Applicant is a Water Supply or Sewer Service Corporation (WSC/SSC) and seeking to obtain a CCN, attach a copy of the current tariff.

30. **Financial Information**

Applicants must provide accounting information typically included within a balance sheet, income statement, and statement of cash flows. If the Applicant is an existing retail public utility, this must include historical financial information and projected financial information. However, projected financial information is only required if the Applicant proposes new service connections and new investment in plant, or if requested by Commission Staff. If the Applicant is a new market entrant and does not have its own historical balance sheet, income statement, and statement of cash flows information, then the Applicant should establish a five-year projection.

Historical Financial Information may be shown by providing any combination of the following that includes necessary information found in a balance sheet, income statement, and statement of cash flows:

1. Completed Appendix A;
2. Documentation that includes all of the information required in Appendix A in a concise format; or
3. Audited financial statements issued within 18 months of the application filing date. This may be provided electronically by providing a uniform resource locator (URL) or a link to a website portal.



Projected Financial Information may be shown by providing any of the following:

1. Completed Appendix B;
2. Documentation that includes all of the information required in Appendix B in a concise format;
3. A detailed budget or capital improvement plan, which indicates sources and uses of funds required, including improvements to the system being transferred; or
4. A recent budget and capital improvements plan that includes information needed for analysis of the operations test for the system being transferred and any operations combined with the system. This may be provided electronically by providing a uniform resource locator (URL) or a link to a website portal.

31. Attach a disclosure of any affiliated interest or affiliate. Include a description of the business relationship between all affiliated interests and the Applicant.

DO NOT INCLUDE ATTACHMENTS A OR B IF LEFT BLANK

Part F: Mapping & Affidavits

32. Provide the following mapping information with each of the seven (7) copies of the application:

1. A general location (small scale) map identifying the requested area in reference to the nearest county boundary, city, or town. The Applicant should adhere to the following guidance:
 - i. If the application includes an amendment for both water and sewer certificated service areas, separate maps must be provided for each.
 - ii. A hand drawn map, graphic, or diagram of the requested area is not considered an acceptable mapping document.
 - iii. To maintain the integrity of the scale and quality of the map, copies must be exact duplicates of the original map. Therefore, copies of maps cannot be reduced or enlarged from the original map, or in black and white if the original map is in color.
2. A detailed (large scale) map identifying the requested area in reference to verifiable man-made or natural landmarks such as roads, rivers, and railroads. The Applicant should adhere to the following guidance:
 - i. The map should be clearly labeled and the outer boundary of the requested area should be marked in reference to the verifiable man-made or natural landmarks. These verifiable man-made and/or natural landmarks must be labeled and marked on the map as well.
 - ii. If the application includes an amendment for both water and sewer certificated service area, separate maps need to be provided for each.
 - iii. To maintain the integrity of the scale and quality of the map, copies must be exact duplicates of the original map. Therefore, copies of maps cannot be reduced or enlarged from the original map, or in black and white if the original map is in color.
3. One of the following identifying the requested area:
 - i. A metes and bounds survey sealed or embossed by either a licensed state land surveyor or a registered professional land surveyor. Please refer to the mapping guidance in part 2 (above);



- ii. A recorded plat. If the plat does not provide sufficient detail, Staff may request additional mapping information. Please refer to the mapping guidance in part 2 (above); or
- iii. Digital mapping data in a shapefile (SHP) format georeferenced in either NAD 83 Texas State Plane Coordinate System (US Feet) or in NAD 83 Texas Statewide Mapping System (Meters). The digital mapping data shall include a single, continuous polygon record. The following guidance should be adhered to:
 - a. The digital mapping data must correspond to the same requested area as shown on the general location and detailed maps. The requested area must be clearly labeled as either the water or sewer requested area.
 - b. A shapefile should include six files (.dbf, .shp, .shx, .sbx, .sbn, and the projection (.prj) file).
 - c. The digital mapping data shall be filed on a data disk (CD or USB drives), clearly labeled, and filed with Central Records. Seven (7) copies of the digital mapping data is also required.

Part G: Notice Information

The following information will be used to generate the proposed notice for the application.
 DO NOT provide notice until the application is deemed sufficient for filing and the Applicant is ordered to provide notice.

33. Complete the following using verifiable man-made and/or natural landmarks such as roads, rivers, or railroads to describe the requested area (to be stated in the notice documents). Measurements should be approximated from the outermost boundary of the requested area:

The total acreage of the requested area is approximately: _____

Number of customer connections in the requested area: _____

The closest city or town: Midland

Approximate mileage to closest city or town center: 0

Direction to closest city or town: N/A

The requested area is generally bounded on the North by: Rural area/oilfield

on the East by: Rural area

on the South by: Rural area

on the West by: Odessa

34. A copy of the proposed map will be available at Midland City Hall



Applicant's Oath

STATE OF Texas

COUNTY OF Midland

I, Carl Craig being duly sworn, file this application to obtain or amend a water or sewer CCN, as Director of Utilities (owner, member of partnership, title as officer of corporation, or authorized representative)

I attest that, in such capacity, I am qualified and authorized to file and verify such application, am personally familiar with the documents filed with this application, and have complied with all the requirements contained in the application; and, that all such statements made and matters set forth therein with respect to Applicant are true and correct. Statements about other parties are made on information and belief. I further state that the application is made in good faith and that this application does not duplicate any filing presently before the Commission.

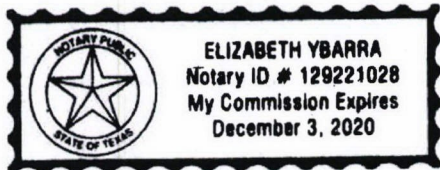
I further represent that the application form has not been changed, altered, or amended from its original form.
I further represent that the Applicant will provide continuous and adequate service to all customers and qualified applicants within its certificated service area should its request to obtain or amend its CCN be granted.

[Signature]
AFFIANT
(Utility's Authorized Representative)

If the Affiant to this form is any person other than the sole owner, partner, officer of the Applicant, or its attorney, a properly verified Power of Attorney must be enclosed.

SUBSCRIBED AND SWORN BEFORE ME, a Notary Public in and for the State of Texas
this day the 8th of November, 20 19

SEAL



Elizabeth Ybarra
NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

Elizabeth Ybarra
PRINT OR TYPE NAME OF NOTARY

My commission expires: December 3, 2020



Attachment A

Description of Proposed CCN Expansion Area (2 pages)



Description of Proposed CCN Expansion Areas City of Midland Application to Amend a Water/Sewer CCN

The proposed expanded water and sewer CCN includes the entire area within the city limits of the City of Midland (City) as well as all of the area within the existing CCNs. Any areas which are within the city limits but outside of the existing CCN are added to the CCN. Areas which are not within the city limits but are within the existing CCN are not removed from the CCN. Much of the area within the city limits which is not within the existing CCN is already served by the City of Midland water and sewer system, and none of the area which will be added to the CCN is part of an existing CCN. Numerous connections in the proposed additional CCN areas are already served by the City. The northeast water and wastewater system improvement projects, both of which are in the design phase, will allow the City to serve more customers in the northeast portion of the City. The exact number of additional connections in the proposed CCN expansion area is unknown due to the inconsistency of the growth rate in the City, but approximately 8,000 additional water connections and 7,000 additional sewer connections are anticipated in the near future.

Area 1 (Water and Sewer): Area 1 includes the northeast portion of the City of Midland. This area does not currently have a water or sewer CCN, but the City currently provides water and sewer service to the developed parts of this area. Additionally, the Northeast Water System Improvements and Northeast Wastewater System Improvements Projects will expand the water and sewer infrastructure in this area to allow the City to provide service to further developments in the northeast. Much of Area 1 is currently developed by the following existing subdivisions: Crownridge, Timber Wolf, Saltbrush, Jadan Kate, Suset Ridge, Ruckus, Skyview Development (partial), Vista del Pueblo, Skyline Farm, Camelot, Leyva Ranch, Rocking "M" Ranch, Freeland, Venture, Parker Acres, Quail Ridge, Rolling Green Acres, Fairgrounds, Colonial Hills, Alldredge Gardens, Renew Life Church, Lone Star Business Park, Lone Star Trails, 349 Ranch Estates, Daybreak Estates, Adobe Meadows, Pavilion Park, Stonebridge, Houston Industrial Park, Midland Country Club, Mission Properties, Solomon Estates, Woodland Park, Staley, Texland, Plantation Hills (partial), Northview, North Williams, Live Oak, Discovery, Mockingbird Oaks, North Midkiff, Mayfield, Mayfield Place, Vista del Cielo, Lost Mountain, Blackbird, Northwestern, Oaktree Ranch, Sprayberry Winery Plaza, Mockingbird Heights, Green Tree Country Club, Green Tree North, and The Vineyard Addition. Additional developments in this area are planned and will be served by the City upon completion of the Northeast Water and Wastewater System Improvements Projects.

Area 2 (Water and Sewer): Area 2 includes the area south of I-20; this area does not currently have a water or sewer CCN. The City currently provides water and sewer service to the developed subdivisions in this area, which include the following: Pilot, Garnett, Garden Twenty, Penta, Valwest, Whitson, Petro-Lewis, Vines, South 349 Acres, BLS Addition (partial), Chandler, Rancho Park, Paula, Bigelow Estates, Las Palmas, Ranchland Acres, Wakefield, and Southwest Crossing. The City intends to continue to serve developments in this area.

Area 3 (Water and Sewer): Area 3 includes the space at the end of the west runway for the Midland International Air and Space Port (MAF). The area is not currently included in a water or sewer CCN, and there are no existing water or sewer connections within the area. This area is being added to the CCN so that the City can serve an industrial or commercial connection for MAF, such as providing water for irrigation in this area, or connecting a fire hydrant.



Area 4 (Water and Sewer): Area 4 includes the space at the end of the east runway for the Midland International Air and Space Port (MAF). The area is not currently included in a water or sewer CCN, and there are no existing water or sewer connections within the area. This area is being added to the CCN so that the City can serve an industrial or commercial connection for MAF, such as providing water for irrigation in this area, or connecting a fire hydrant.

Area 5 (Water and Sewer): Area 5 includes the area west of the city center; this area does not currently have a water or sewer CCN. The City currently provides water and sewer service to the numerous developments in this area. The existing subdivisions which are currently by the City served in this area include the following: Glenwood, West Terminal 2nd, West 1788 Industrial Park, Covington, West 191 Industrial Park, Entrada Estates, Westlake, Southwest Baptist Church, Legacy Addition, Legends Park, Westridge Park, Gateway Plaza, Cycles, Grassland Estates, Grassland West, Grandridge Park, Heritage Oaks, Holiday Hill Village, Los Patios, Cross Point, Bush Tennis Center, Country Sky, Section 26, Llano Estacado, Bynum School, Roper, Kalpowar, and Los Conchos Estates. The City intends to continue to serve further development in this area.

Area 6 (Water and Sewer): Area 6 includes the area farthest northwest area within the City limits; this area does not currently have a water or sewer CCN. The City currently provides water and sewer service to the development in this area, part of the Pecan Acres subdivision. The City intends to continue to provide both water and sewer service in this area.

Area 7 (Sewer Only): Area 7 includes the area between Area 5 and Area 6; this area is currently included in the City of Midland's water CCN, but the area does not currently have a sewer CCN. The City currently provides water and sewer service to the development in this area, part of the Pecan Acres subdivision. The City intends to continue to serve this area with both water and sewer service.



Attachment B

Proposed CCN Amendment Areas Overall Layout

Proposed Water CCN Expansion Area No. 1

Proposed Sewer CCN Expansion Area No. 1

Proposed Water CCN Expansion Area No. 2

Proposed Sewer CCN Expansion Area No. 2

Proposed Water CCN Expansion Area No. 3

Proposed Sewer CCN Expansion Area No. 3

Proposed Water CCN Expansion Area No. 4

Proposed Sewer CCN Expansion Area No. 4

Proposed Water CCN Expansion Area No. 5

Proposed Sewer CCN Expansion Area No. 5

Proposed Water CCN Expansion Area No. 6

Proposed Sewer CCN Expansion Area No. 6

Proposed Sewer CCN Expansion Area No. 7







MIDLAND AND MARTIN COUNTIES



 TEXAS COUNTIES



LEGEND

-  PROPOSED WATER CCN EXPANSION
-  PROPOSED SEWER CCN EXPANSION



ENP/TEC/HIBBS & TODD, INC.
 ENVIRONMENTAL AND CIVIL ENGINEERING
 402 Cedar Street
 325-698-5560
 Abilene, Texas 79601
 PE Firm Registration No. 1151
 PC Firm Registration No. 50103
 RPLS Firm Registration Nos. 10011900 & 10007300

**PROPOSED CCN AMENDMENT AREAS
 OVERALL LAYOUT
 MIDLAND AND MARTIN COUNTIES, TEXAS**





4000 0 8000



SCALE IN FEET

MARTIN COUNTY
MIDLAND COUNTY

PROPOSED CCN
AMENDMENT AREA No. 1
16,922 ACRES ±

369

250

250

CITY OF MIDLAND

I-20



ENPROTEC/HIBBS & TODD, INC.
ENVIRONMENTAL AND CIVIL ENGINEERING
1310 Weatherford Hwy., Ste. 116 Granbury, TX 76048
682-498-6000
PE Firm Registration No. 1151
PG Firm Registration No. 50103
TBPLS Firm Registration Nos. 10011900 & 10007300

LEGEND



PROPOSED CCN AMENDMENT AREA

**PROPOSED WATER CCN
AMENDMENT AREA 1
CITY OF MIDLAND
MIDLAND COUNTY, TEXAS**

JOB NO. 7358

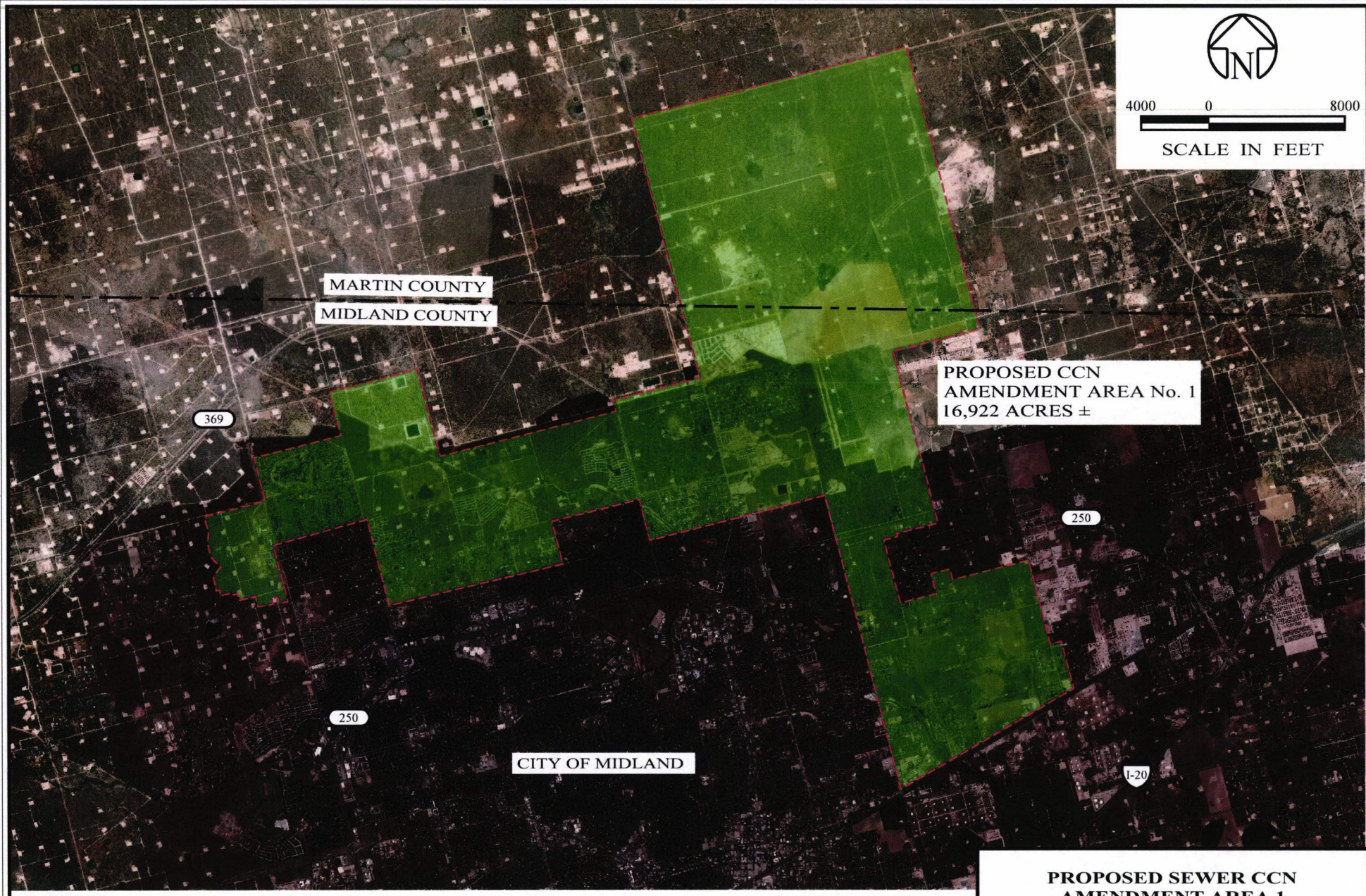
08/14/2019





4000 0 8000

SCALE IN FEET



MARTIN COUNTY
MIDLAND COUNTY

PROPOSED CCN
AMENDMENT AREA No. 1
16,922 ACRES ±

369


250

250

CITY OF MIDLAND

I-20

eht ENPROTEC/HIBBS & TODD, INC.
 ENVIRONMENTAL AND CIVIL ENGINEERING
 1310 Weatherford Hwy., Ste. 116 Granbury, TX 76048
 682-498-9200 PE Firm Registration No. 1151
 PG Firm Registration No. 50103
 TBPLS Firm Registration Nos. 10011900 & 10007300

LEGEND
 PROPOSED CCN AMENDMENT AREA

**PROPOSED SEWER CCN
 AMENDMENT AREA 1
 CITY OF MIDLAND
 MIDLAND COUNTY, TEXAS**
 JOB NO. 7358 08/14/2019





2000 0 6000

SCALE IN FEET

CITY OF MIDLAND

80

250

I-20

PROPOSED CCN
AMENDMENT AREA NO. 2
1,022 ACRES ±

80

I-20

LEGEND



PROPOSED CCN AMENDMENT AREA

**PROPOSED WATER CCN
AMENDMENT AREA 2
CITY OF MIDLAND
MIDLAND COUNTY, TEXAS**

JOB NO. 7358

08/14/2019



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682-498-6000 PE Firm Registration No. 1151
PG Firm Registration No. 50103
TBPLS Firm Registration Nos. 10011900 & 10007300





2000 0 6000

SCALE IN FEET

CITY OF MIDLAND

80

250

I-20

PROPOSED CCN
AMENDMENT AREA NO. 2
1,022 ACRES ±

80

I-20

LEGEND



PROPOSED CCN AMENDMENT AREA

**PROPOSED SEWER CCN
AMENDMENT AREA 2
CITY OF MIDLAND
MIDLAND COUNTY, TEXAS**

JOB NO. 7358

08/14/2019



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ENVIRONMENTAL AND CIVIL ENGINEERING
1310 Weatherford Hwy., Ste. 116 Granbury, TX 75048
682-498-6000 PE Firm Registration No. 1151
PG Firm Registration No. 50103
TBPLS Firm Registration Nos. 10011900 & 10007300





1000 0 2000



SCALE IN FEET



PROPOSED CCN
AMENDMENT AREA No. 3
51 ACRES ±

MIDLAND
INTERNATIONAL
AIR & SPACE
PORT

LEGEND



PROPOSED CCN AMENDMENT AREA

**PROPOSED WATER CCN
AMENDMENT AREA 3
CITY OF MIDLAND
MIDLAND COUNTY, TEXAS**

JOB NO. 7358

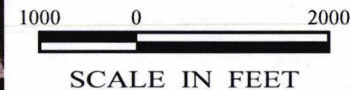
08/14/2019



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ENVIRONMENTAL AND CIVIL ENGINEERING
1310 Weatherford Hwy., Ste. 116 Granbury, TX 76048
682-498-0200 PE Firm Registration No. 1151
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TBPLS Firm Registration Nos. 10011900 & 10007300





PROPOSED CCN
AMENDMENT AREA No. 3
51 ACRES ±

MIDLAND
INTERNATIONAL
AIR & SPACE
PORT

LEGEND



PROPOSED CCN AMENDMENT AREA

**PROPOSED SEWER CCN
AMENDMENT AREA 3
CITY OF MIDLAND
MIDLAND COUNTY, TEXAS**

JOB NO. 7358

08/14/2019



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982-499-0000 PE Firm Registration No. 1151
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1000 0 2000

SCALE IN FEET



PROPOSED CCN
AMENDMENT AREA No. 4
111 ACRES ±

MIDLAND
INTERNATIONAL
AIR & SPACE
PORT

LEGEND



PROPOSED CCN AMENDMENT AREA

**PROPOSED WATER CCN
AMENDMENT AREA 4
CITY OF MIDLAND
MIDLAND COUNTY, TEXAS**

JOB NO. 7358

08/14/2019



ENPROTEC/HIBBS & TODD, INC.

ENVIRONMENTAL AND CIVIL ENGINEERING
1310 Weatherford Hwy., Ste. 116 Granbury, TX 75948
682-498-5000 PE Firm Registration No. 1151
PG Firm Registration No. 50103
TBPLS Firm Registration Nos. 10011900 & 10007300



191



1000 0 2000



SCALE IN FEET



PROPOSED CCN
AMENDMENT AREA No. 4
111 ACRES ±

MIDLAND
INTERNATIONAL
AIR & SPACE
PORT

LEGEND



PROPOSED CCN AMENDMENT AREA

**PROPOSED SEWER CCN
AMENDMENT AREA 4
CITY OF MIDLAND
MIDLAND COUNTY, TEXAS**

JOB NO. 7358

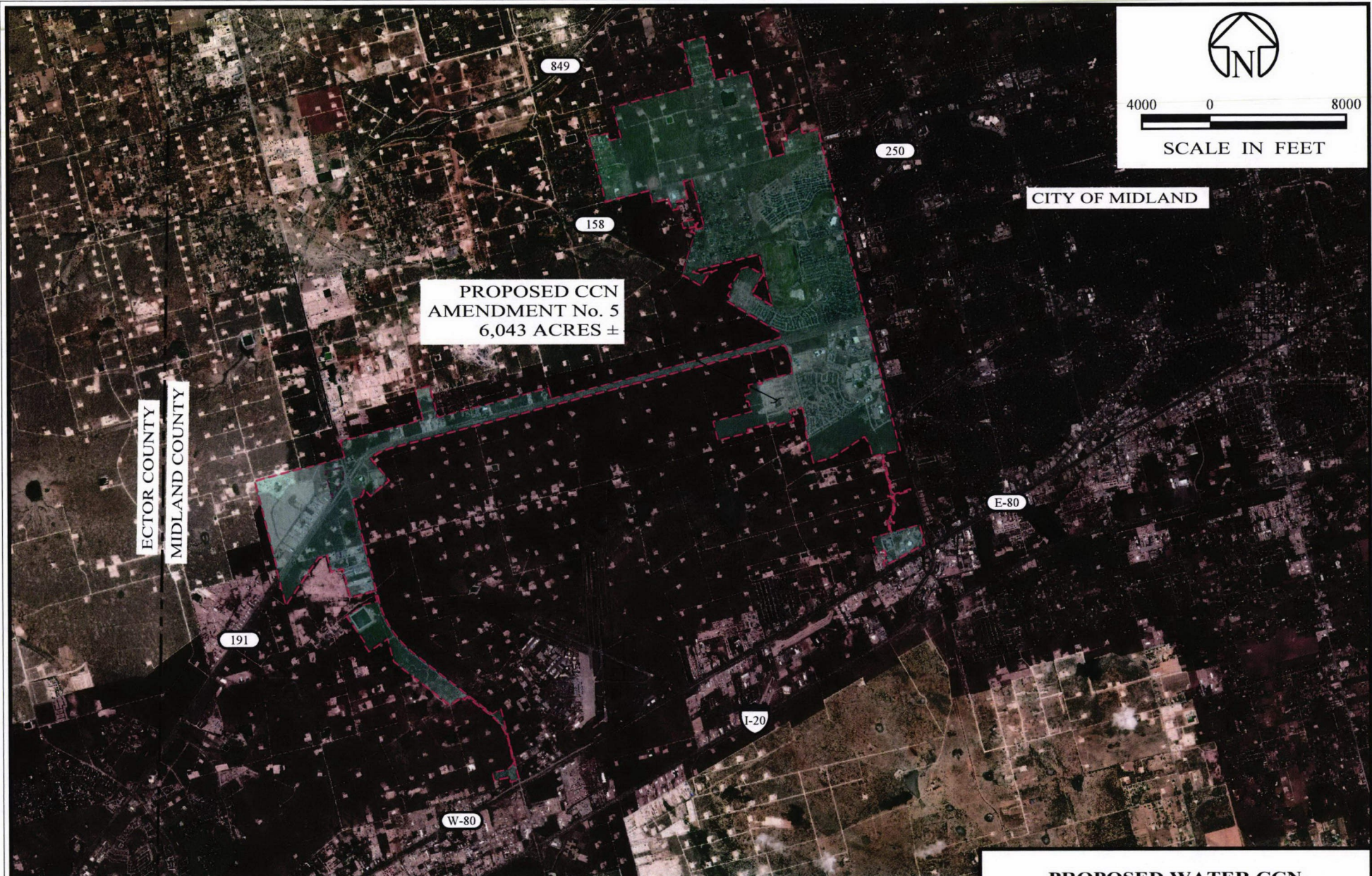
08/14/2019



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1310 Weatherford Hwy., Ste. 116 Granbury, TX 76048
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PG Firm Registration No. 50103
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PROPOSED CCN
AMENDMENT No. 5
6,043 ACRES ±

CITY OF MIDLAND

ECTOR COUNTY
MIDLAND COUNTY

PROPOSED WATER CCN
AMENDMENT AREA 5
CITY OF MIDLAND
MIDLAND COUNTY, TEXAS

LEGEND

 PROPOSED CCN AMENDMENT AREA



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TBPLS Firm Registration Nos. 10011900 & 10007300

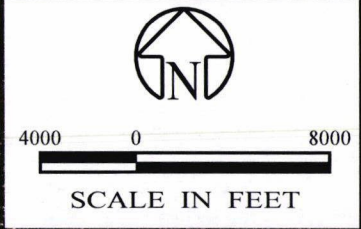
JOB NO. 7358

08/14/2019





**PROPOSED CCN
AMENDMENT No. 5
6,043 ACRES ±**



CITY OF MIDLAND

**ECTOR COUNTY
MIDLAND COUNTY**

LEGEND



PROPOSED CCN AMENDMENT AREA

**PROPOSED SEWER CCN
AMENDMENT AREA 5
CITY OF MIDLAND
MIDLAND COUNTY, TEXAS**



ENPROTEC/HIBBS & TODD, INC.
ENVIRONMENTAL AND CIVIL ENGINEERING
1310 Weatherford Hwy., Ste. 116
682-498-0000
PE Firm Registration No. 1151
PG Firm Registration No. 50103
TBPLS Firm Registration Nos. 10011900 & 10007300

JOB NO. 7358

08/14/2019





500 0 1000

SCALE IN FEET

PROPOSED CCN
AMENDMENT No. AREA 6
23 ACRES ±



LEGEND



PROPOSED CCN AMENDMENT AREA

**PROPOSED WATER CCN
AMENDMENT AREA 6
CITY OF MIDLAND
MIDLAND COUNTY, TEXAS**

JOB NO. 7358

08/14/2019




ENPROTEC/HIBBS & TODD, INC.

ENVIRONMENTAL AND CIVIL ENGINEERING
1310 Weatherford Hwy., Ste. 116 Granbury, TX 76048
682-498-0000 PE Firm Registration No. 1151
PG Firm Registration No. 50103
TBPLS Firm Registration Nos. 10011900 & 10007300






PROPOSED CCN
 AMENDMENT No. AREA 6
 23 ACRES ±




500 0 1000
 SCALE IN FEET

LEGEND

 PROPOSED CCN AMENDMENT AREA

**PROPOSED SEWER CCN
 AMENDMENT AREA 6
 CITY OF MIDLAND
 MIDLAND COUNTY, TEXAS**

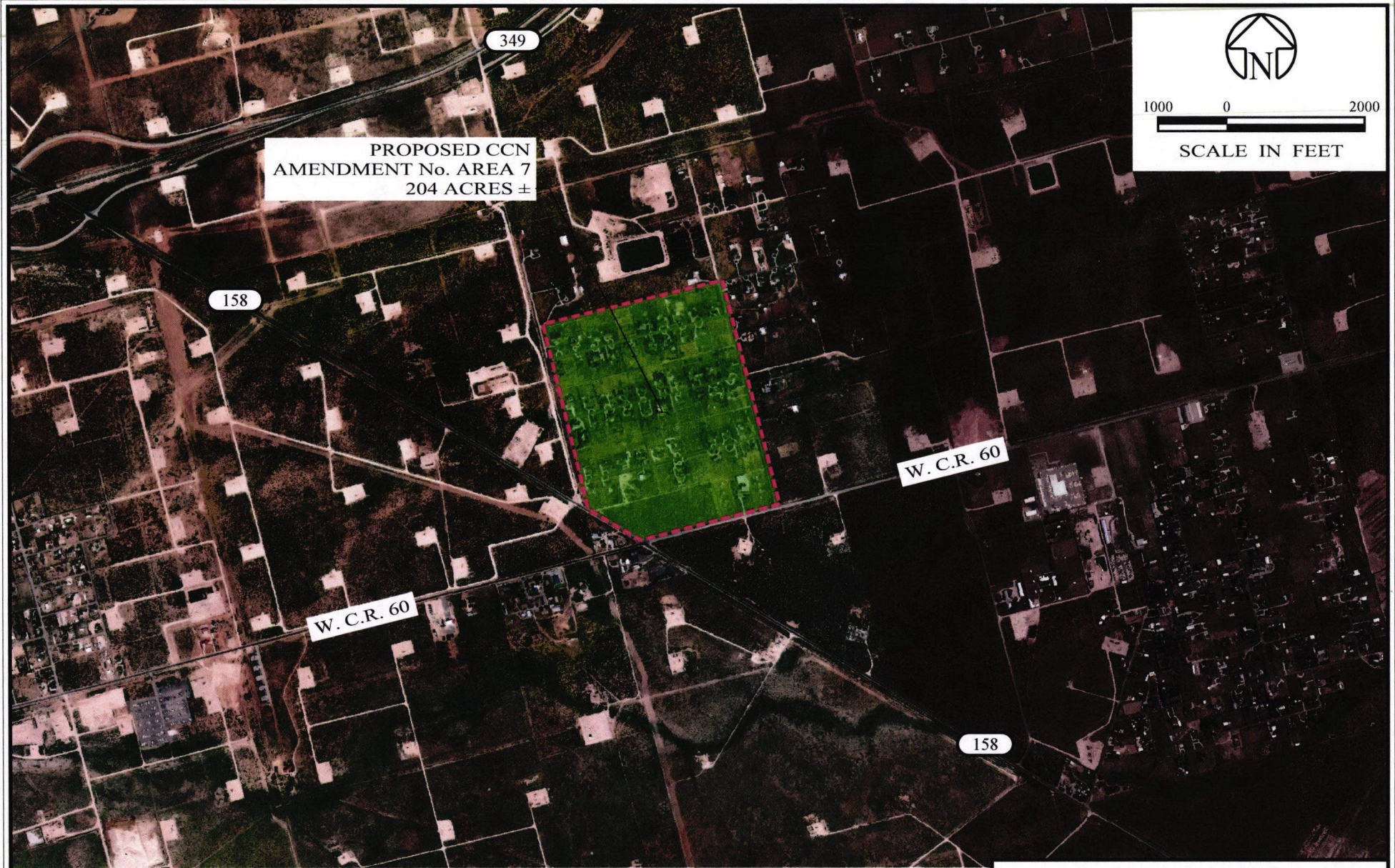


ENPROTEC/HIBBS & TODD, INC.
 ENVIRONMENTAL AND CIVIL ENGINEERING
 1310 Weatherford Hwy., Ste. 116 Granbury, TX 76048
 682-498-6000 PE Firm Registration No. 1151
 PG Firm Registration No. 50103
 TBPLS Firm Registration Nos. 10011900 & 10007300

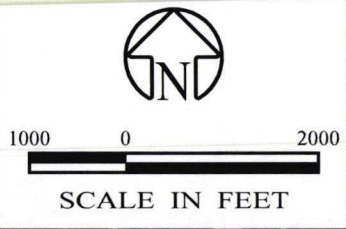
JOB NO. 7358

08/14/2019





PROPOSED CCN
AMENDMENT No. AREA 7
204 ACRES ±



LEGEND

 PROPOSED CCN AMENDMENT AREA



ENPROTEC/HIBBS & TODD, INC.
ENVIRONMENTAL AND CIVIL ENGINEERING
1310 Weatherford Hwy., Ste. 116 Granbury, TX 75048
PE Firm Registration No. 1151
PG Firm Registration No. 50103
TBPLS Firm Registration Nos. 10011900 & 10007300

**PROPOSED SEWER CCN
AMENDMENT AREA 7
CITY OF MIDLAND
MIDLAND COUNTY, TEXAS**

JOB NO. 7358

08/14/2019



Attachment C

Most Recent TCEQ Inspection Reports



WPP TCEQ Inspection 10/31/2016



PWS 1650001_CO_201/0215_COMPLIANCE INVESTIGATION
Texas Commission on Environmental Quality
Investigation Report

Copy

The TCEQ is committed to accessibility. If you need assistance in accessing this document, please contact oca@tceq.texas.gov

Customer: City Of Midland
Customer Number: CN600246813

Regulated Entity Name: WATER PURIFICATION PLANT

Regulated Entity Number: [REDACTED]

Investigation # 1370907 **Incident Numbers**
Investigator: HEATHER MOORE **Site Classification** GW >10K CONNECTION
SW >10K CONNECTION
Conducted: 10/25/2016 -- 10/31/2016 **No Industry Code Assigned**
Program(s): PUBLIC WATER SYSTEM/SUPPLY
Investigation Type: Compliance Investigation **Location:** 5000 North Midland Drive, Midland, TX 79707
Additional ID(s): 1650001
Address: 5000 N MIDLAND DR,
MIDLAND, TX , 79707 **Local Unit:** REGION 07 - MIDLAND
Activity Type(s): PWCCISWCM - CCI SURFACE
WATER - COMMUNITY MANDATORY

Principal(s):
Role **Name**
RESPONDENT CITY OF MIDLAND

Contact(s):



WATER PURIFICATION PLANT MIDLAND

10/25/2016 to 10/31/2016 Inv. # - 1370907

Page 2 of 6

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Role	Title	Name	Phone
REGULATED ENTITY MAIL CONTACT	MAYOR	HON JERRY MORALES	
REGULATED ENTITY CONTACT	DIRECTOR OF UTILITIES	MS LAURA WILSON	Work (432) 685-7937
PARTICIPATED IN		MR CARL CRAIGO	Work (432) 685-7937
PARTICIPATED IN		LEROY MONTEZ	Work (432) 685-7268 Cell (432) 413-5130
PARTICIPATED IN		MR RAYMOND SADDLER	Work (432) 681-7606 Alt Phone (432) 681-7606 Fax (432) 681-7608 Work (432) 681-7605 Cell (432) 413-5131
NOTIFIED		MR RAYMOND SADDLER	

Other Staff Member(s):

Role	Name
Investigator	CLAUDIA CORRALES
Supervisor	CAMILO CHAVEZ
Investigator	LINDSEY BUCKNER
Supervisor	VICKIE MCLEAN

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
PWS STANDARD FIELD	1650001
PWS EMERGENCY POWER INITIATIVE	1650001
WQ IN-HOUSE LABORATORY COMPLIANCE INVESTIGATION	1650001
PWS INVESTIGATION - EQUIPMENT MONITORING AND SAMPLING revised 06/2013	1650001

Investigation Comments:

INTRODUCTION:

The Honorable Jerry Morales is Mayor, Mr. Courtney Sharp is City Manager, Ms. Laura Wilson is Director of Utilities, Mr. Carl Craigo is Assistant Director of Utilities, Mr. Raymond Saddler is Superintendent of Operations and Mr. Leroy Montez is Distribution and Collection Superintendent. The investigator, Ms. Heather Moore, notified Mr. Saddler on October 12, 2016 of the planned comprehensive compliance investigation (CCI) of the system. Ms. Moore, along with Mr. Lindsey Buckner and Ms. Claudia Corrales, then met with Mr. Saddler on-site on October 25, 2016 (water treatment plant), October 27, 2016 (storage and distribution and Paul Davis well field) and conducted an announced CCI of the public water system. Exit interview was conducted with Mr. Saddler.

GENERAL FACILITY AND PROCESS INFORMATION:

This community system provides treated surface water blended with treated ground water to 41,404 metered connections and 27,945 single family equivalents for total connections of 69,349 with a system provided retail population of 132,950 per the system. Mailing address, physical address, location, phone numbers, RN and CN for the system are:



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P. O. Box 1152 City Hall
Midland, TX 79702-1152

300 North Loraine City Hall, 4th floor

5000 North Midland Drive Water Treatment Plant
Midland, Texas 79707

432/681-7660 Raymond Saddler, WTP
432/413-5131 Raymond Saddler cell
rsaddler@midlandtexas.gov Raymond Saddler e-mail
432/681-7606 WTP and Emergency Phone No.
432/681-7608 WTP Fax
432/685-7260 Utilities
432/685-5056 Utilities Fax
lwilson@midlandtexas.gov Laura Wilson
432/685-7268 Leroy Montez
432/413-5130 Leroy Montez cell

RN101384899
CN600246813.

POE001 = CRMWD surface water + Paul Davis ground water, POE sampling point at the WTP from Service Pump 1 or 2

Water for municipal use is obtained from the Colorado River Municipal Water District (CRMWD), surface water and groundwater, chlorinated groundwater is obtained from Midland County FWSD 1, the T-Bar well field, and two city owned well fields. Raw water from CRMWD is received at the Midland Water Treatment Plant (WTP) from two directions. A 24" line from the northeast delivers up to 15 MGD of water from Martin County Well Field mixed with Lakes Spence and Thomas or Lake O.H. Ivie. This water is discharged into a 15 MG reservoir at the plant referred to by plant personnel as the "Back Door". The reservoir can also be bypassed with water discharging straight into the plant. Water from Lake Ivie discharges into Midland's 95 MG raw water reservoir referred to as "Lake Peggy Sue". Lake Ivie water is also discharged into CRMWD's 100 MG raw water reservoir located west of Midland near Midland International Airport. This reservoir is referred to as "Terminal Reservoir". Water from Terminal Reservoir and Lake Peggy Sue gravity flows through a 48 inch transmission line to the WTP. Terminal Reservoir station will gravity flow 15 MGD to the WTP. During peak demand, CRMWD's Pump Station 8 takes suction from Terminal Reservoir and discharges to the Midland WTP. Gravity plus one pump will deliver 20 MGD to the Water Treatment Plant. Lake Peggy Sue is operational storage. The City will deliver water at up to 20-25 MGD from Peggy Sue.

The water received at the WTP is prechlorinated, ammoniated and currently coagulated with alum and a polymer. The alum and polymer injectors drawdown is checked on every shift. The plant is designed as a lime softening plant; however, currently lime is not being used. After flocculation the water is settled and filtered through dual media gravity filters. The filters are back washed when turbidity is 0.3 NTU, loss-of-head or after 72 hours of continuous use. Depth of anthracite is checked often and added when needed. Filtered water is post chlorinated and ammoniated when needed and stored in a 4 MG, 5 MG and a 3 MG clearwells. Filter backwash water is discharged to the round tanks. Round tank water is recycled to the 15 MG reservoir or to head of plant if needed.

New tanks are being removed. The installation is problematic so currently the old tank is being used. Switching over to Liquid Ammonia pending TCEQ approval.

The plant is capable of feeding KMnO4, Earth Tec (for algae control) and PAC when needed.

Paul Davis wells discharge into ground storage tanks at the Paul Davis Yard 30 miles north of Midland. Chlorinated water gravity flows to Midland. Service pumps take suction from ground storage and discharge to the city to augment flow. Connections are served along the way. The water wells can also bypass ground storage. The Paul Davis pipeline has a capacity of 5.631 MG and can deliver 20 MGD. There is a booster station between Paul Davis field and the city which has never been used. In the past, a line from Paul Davis to McMillen field was used to inject Paul Davis water into McMillen during the winter months for use during peak periods of the summer.



WATER PURIFICATION PLANT MIDLAND

10/25/2016 to 10/31/2016 Inv. # - 1370907

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Due to the increased surface water flow into the plant from Lake Ivie, beginning March 9, 1995, the McMillen field is no longer being recharged. Gas chlorination is available at three points at Paul Davis Well field. Point 1 is into transmission line to town after booster pumps. Point 2 is into ground storage tanks. Point 3 is ahead of well field ground storage. At the WTP, Paul Davis water is chloraminated and discharges to the 72" line from filters to clearwell storage. Paul Davis water exceeds the maximum contaminant levels (MCL) for arsenic, fluoride and selenium. For this reason Paul Davis is never more than 25% of the final blended water.

High service pumps at the WTP take suction from the clearwells and discharge blended water to the distribution system.

The distribution system consists of two pressure planes. The high plane is in the northern and western parts of the city. The low pressure plane is to the east. These are not isolated pressure planes.

Chlorine and ammonia scrubbers are installed at the WTP. Leaking chlorine gas is drawn through a caustic scrubber which can handle over a ton of chlorine. Chlorine cylinders are automatically shutoff and can only be turned on manually.

POE003 = Paul Davis ground water due to connections on transmission line, POE sampling point at faucet west of southernmost residence

Several connections on the transmission line to Midland are served by chlorinated Paul Davis groundwater. One 0.000230 MG pressure tank and one 80 GPM service pump supplies the operator residence at Paul Davis Yard. Transmission line pressure operates at 27 psi up to 150 psi. A pressure regulator and service pump insures consistent and adequate pressure to the operators' residence.

Individual service point treatment units have been approved for installation. All of the connections are vacant with the occasional cleaning crew taking care of the residences. There is a hangar that is metered and it already has a reverse osmosis system installed by the owner.

POE004 = T-Bar Well Field groundwater via Midland County Fresh Water Supply District # 1, (FWSD), PWS ID No. 1650133, POE sampling point at ET yard after chloramination by Midland.

Groundwater, treated with free chlorine, is provided wholesale from T-Bar Well Field in Winkler County by Midland County FWSD 1. One 2.0 MG elevated storage tank is present. The facility is 0.3 miles west of FM 1788 and 1.25 miles north of the intersection of FM 1788 and SH 191. The city is gravity fed from elevated storage. Chloramination is prior to storage. The water line connects to the distribution on the west side of Midland at SH 158.

System Facilities Totals:

Well Deliverability Total	= 13675 GPM = 19.692 MGD for Paul Davis
	= 2083.34 GPM = 3.0 MGD at the time of the investigation
	(additional T-Bar wells are being approved thereby
	increasing water availability from T-Bar)
	2375 GPM = 3.420 MGD for McMillen emergency source
Surface Water Deliverability Total	= 24305.6 GPM = 35.0 MGD Contracted
Total Water Deliverability	= 40063.94 GPM = 57.692 MGD
	Plus additional T-Bar production as more wells are completed
	Plus 3.420 MGD emergency
Elevated Storage	= 18.000 MG
Pressure Tank Storage	= 0.000230 MG
Total Storage	= 35.000 MG
Service Pump Total	= 134558 GPM = 193.764 MGD

BACKGROUND:

Prior CCI was conducted January 21, 22 and 23, 2014. No violations were alleged as a result of that CCI. Paul Davis water exceeds primary MCL for arsenic, fluoride and selenium. Paul Davis water is blended with surface water at the WTP prior to distribution. Point of use (POU) treatment is planned for connections on the Paul Davis transmission line.

ADDITIONAL INFORMATION:

The system's 16 operators have the following certifications: two A Water and fourteen D Water. Average water use for October, 2015 through September, 2016 was 13.214 MGD and max day was 23.742 MGD on July 28, 2016.



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Bacteriological analysis is conducted by City of Midland Laboratory Services which has NELAC approval. Disinfectant residuals, turbidities, pH and water pressure are determined with field analysis using a combination of field and on-line equipment. Final effluent water is evaluated by a combination of field and on-line equipment. Appropriate methodology, checks and calibration are utilized. Reagents and standards are in date. Emergency power is not required. The WTP has a natural gas generator connected to the chlorine building. Midland owns a trailer mounted generator and plans to rent generators if needed. High Service pump 1 is to be converted to 220 amp to facilitate connection to a generator. System facilities are powered by dual Grid with TU and Caprock COOP. Electrical building at Paul Davis is equipped with connections for a generator.

The system purchased the "Back Door" reservoir in the plant yard from CRMWD. The reservoir has been rehabilitated and plumbing modified. The system plans to change the inlet and outlet at "Peggy Sue" to ensure circulation in the reservoir and install new pumps, piping and valving at "Peggy Sue". A longer decant water line was installed to inject decant water further up raw water line. Midland has installed sludge drying centrifuges. Water is discharged to drying beds and sludge to open top hoppers for eventual disposal at the landfill. The system installed a 14 inch Paul Davis by-pass at the WTP to more accurately meter lower flows.

Groundwater Disinfection Protocol for Paul Davis water has been approved.

Midland County FWSD # 1 continues to complete new water wells thereby increasing water availability. Midland County FWSD # 1 also plans to develop Clear Water Ranch (CWR). Groundwater from CWR is being blended with T-Bar water. Water restrictions have been lifted by CRMWD. Midland is restricting when outside water uses may occur.

The system currently is having problems with lower disinfectant residuals. A free chlorine burn was conducted for a month beginning June 1, 2016. At the end of the day the laboratory, which is responsible for recording distribution disinfectant residuals, sends a spreadsheet which lists the daily residuals to Utilities and Transportation, which is over Distribution. Areas of lower residuals are flushed the next day. Utilities and Distribution are spending lots of man hours mapping the lower residuals, flushes and SCADA information to better understand hydraulics of the distribution. The system will take appropriate action, such as installing re-chlorination facilities when enough information is gathered.

7.9 mg/L Total chloramines disinfectant residual at WTP

1.83 mg/L Free chlorine disinfectant residual at Paul Davis Well Field, POE 003.

3.31 mg/L Total chloramines disinfectant at sample tap located at 801 Main.

Currently out of service Wadley ET.

36 psi and 1.63 mg/L Total chloramines disinfectant residual at Northwest Tower.

6.2 mg/L Total chloramines disinfectant residual at Shell Station.

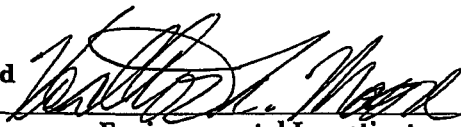
2.65 mg/L Total chloramines disinfectant residual at Edgewood Station.

The investigator used an analog pressure gauge to determine distribution water pressure, a HACH Pocket Colorimeter II to determine disinfectant residual and a HACH 2100Q portable turbidimeter to determine turbidity.

No Violations Associated to this Investigation



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Signed 
Environmental Investigator

Date 2/13/17

Signed 
Supervisor

Date 2/13/17

Attachments: (in order of final report submittal)

- Enforcement Action Request (EAR)
- Letter to Facility (specify type) : GC
- Investigation Report
- Sample Analysis Results
- Manifests
- Notice of Registration

- Maps, Plans, Sketches
- Photographs
- Correspondence from the facility
- Other (specify) :
- System Map, List of operators _____
- DWW Summary Sheet _____



Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 15, 2017

The Honorable Jerry Morales
City of Midland
PO Box 1152
Midland, TX 79702-1152

Re: Comprehensive Compliance Investigation of Public Water Supply at:
City of Midland, Midland County, Texas
RN 101384899, TCEQ Public Water Supply: 1650001

Dear Mayor Morales:

On October 25, 27 and 31, 2016, Ms. Heather Moore of the Texas Commission on Environmental Quality (TCEQ) Midland Region Office conducted an investigation of the above-referenced facility to evaluate compliance with applicable requirements for public water supply. No violations are being alleged as a result of the investigation.

The TCEQ appreciates your assistance in this matter and your compliance efforts to ensure protection of the State's environment. If you or members of your staff have any questions regarding these matters, please feel free to contact Ms. Moore in the Midland Region Office at (432) 570-1359.

Sincerely,



Camilo Chavez, Section Manager
Midland Regional Office
Texas Commission on Environmental Quality

CC/hlm

cc: Ms. Laura Wilson, Director of Utilities, City of Midland



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Texas Commission on Environmental Quality

PWS INVESTIGATION - EQUIPMENT MONITORING AND SAMPLING revised 06/2013 Checklist

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Unit Name : 1650001
 Investigation # :1370907
 Facility Name : WATER PURIFICATION PLANT

County : MIDDLE AND
 TCEQ Investigator : HEATHER MOORE

Item No.	Description	Answer	Comments	Due Date
	EQUIPMENT MONITORING SECTION			
1	Was an Anemometer used during this investigation?	NO		
2	Was the Area RAE Multi-Gas Monitor used during this investigation?	NO		
3	Was the Civil Defense V-700 Radiation Survey Instrument used during this investigation?	NO		
4	Was the DataRAM(TM) Real-Time Aerosol Monitor used during this investigation?	NO		
5	Was the Dissolved Oxygen Meter used during this investigation?	NO		
	Was the Drager Gas Detector Pump/Tube System used during this investigation?	NO		
7	Was the El Paso Method for Measurement of Air-Strippable VOCs in Water used during this investigation?	NO		
8	Was the Garmin GPSMap 60CS GPS Receiver used during this investigation?	NO		
9	Was the Garmin RINO 130 GPS Receiver used during this investigation?	NO		
10	Was the GAS FindIR used during this investigation?	NO		
11	Was the Hach Model 2100P Portable Turbidimeter used during this investigation?	YES	The Region is currently using the Hach Model 2100Q	
12	Was the Hach Pocket Colorimeter used during this investigation?	YES		
13	Was the Hach Pocket Turbidimeter used during this investigation?	NO		



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14	Was the Haz-Dust 5000 Environmental Particulate Air Monitor (EPAM) used during this investigation?	NO	
15	Was the Hydrolab DataSonde® 4 and Hydrolab MiniSonde® Water Quality Multiprobes used during this investigation?	NO	
16	Was the IDEXX Colliert® and IDEXX Enterolert® Methods used during this investigation?	NO	
17	Was the Jerome 631-X Hydrogen Sulfide (H2S) Analyzer used during this investigation?	NO	
18	Was the LANDTEC GEM 2000(TM) Landfill Gas analyzer used during this investigation?	NO	
19	Was the Ludlum Model 14C Geiger Mueller (GM) counter used during this investigation?	NO	
20	Was the Ludlum Model 19 Micro R Meter used during this investigation?	NO	
21	Was the Marsh-McBirney Flo-Mate 2000 Electromagnetic Flow Meter used during this investigation?	NO	
22	Was the MiniRAE 2000 Photoionization Detector used during this investigation?	NO	
23	Was the MIRAN 205B SapphiRe Portable Infrared Ambient Analyzer used during this investigation?	NO	
24	Was the MSA Passport® PID II Organic Vapor Monitor used during this investigation?	NO	
25	Was the Multi-parameter Water Quality Monitoring Sonde and Display used during this investigation?	NO	
26	Was the MultiRAE Plus Multi-Gas Monitor used during the investigation?	NO	
27	Was the Niton® XLt 700 Series X-Ray Fluorescence (XRF) Environmental Analyzer used during this investigation?	NO	
28	Was the ORS Interface Probe(TM) used during this investigation?	NO	
29	Was the pH Meter used during this investigation?	NO	
30	Was the Portable Organic Vapor Monitor (OVM) Photoionization Detector used during this investigation?	NO	



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31	Was the Pressure Gauge used during this investigation?	YES		
32	Was the Pressure Recorder used during this investigation?	NO		
33	Was the QRAE Multi-gas Monitor used during this investigation?	NO		
34	Was the Sample Collection of VOCs in Ambient Air Using Passivated, Stainless Steel Canisters used during this investigation?	NO		
35	Was the Sampling of Microscopic Characterization used during this investigation?	NO		
36	Was the Self Contained Breathing Apparatus (SCBA) used during this investigation?	NO		
37	Was the Smith-Root Boat Mounted and Backpack Electrofishers used during this investigation?	NO		
38	Was the Sontek Flowtracker used during this investigation?	NO		
39	Was the TESTO 350 Portable Flue Gas Analyzer used during this investigation?	NO		
40	Was the Toxic Vapor Analyzer (TVA) 1000B Flame Ionization Detector (FID) used during this investigation?	NO		
41	Was the TravellIR Portable FT-IR Infrared Analysis System used during this investigation?	NO		
42	Was the VRAE Multi Gas Monitor used during this investigation?	NO		
43	Was the Water Level Indicator used during this investigation?	NO		
44	Was the Weatherpak 2000 used during this investigation?	NO		
45	Was any other equipment used during this investigation that is not listed above? If YES, list the equipment in the Comment section.	NO		
	SAMPLING SECTION			
1	Was there sampling conducted for Effluent?	NO		



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2	Was there sampling conducted for Groundwater?	NO	
3	Was there sampling conducted for Leachate/Contaminated Water?	NO	
4	Was there sampling conducted for PWS Chemical?	NO	
5	Was there sampling conducted for Sediment/Soil?	NO	
6	Was there sampling conducted for Spills/Unauthorized Discharge?	NO	
7	Was there sampling conducted for Surface Water?	NO	
8	Was there any other type of sampling conducted during this investigation? If YES, include it in the Comment section.	NO	



