

CITY WATER & LIGHT

JONESBORO, ARKANSAS



**2017 PROGRESS REPORT
CORRECTIVE ACTION PLAN**

SANITARY SEWER OVERFLOWS: SUMMARY OF ONGOING ACTIONS
AND PLAN FOR ADDITIONAL CORRECTIVE MEASURES


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CITY WATER & LIGHT
JONESBORO, ARKANSAS
2017 PROGRESS REPORT
CORRECTIVE ACTION PLAN
SANITARY SEWER OVERFLOWS

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Jake Rice III, Manager
City Water and Light
Jonesboro, AR

12/8/17

Date

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Acronyms

ADEQ - Arkansas Department of Environmental Quality
ADH – Arkansas Department of Health
CAP – Corrective Action Plan
CCTV – Closed Circuit Television Video
CIPP – Cured-In-Place Pipe
CMOM - Capacity, Management, Operations, and Maintenance Program
CWB - CWB Engineers, Inc.
CWL - City Water and Light Plant of the City of Jonesboro, Arkansas
FOG - Fats, Oils and Grease
FSE – Food Service Establishment
GIS – Geographic Information System
I&I – Inflow and Infiltration
MACP – Manhole Assessment Certification Program
MGD – Million Gallons per Day
MW&Y - McGoodwin, Williams & Yates, Inc.
NASSCO – National Association of Sewer Service Companies
NPDES - National Pollutant Discharge Elimination System
PACP – Pipeline Assessment Certification Program

PLC - Programmable Logic Controller
RAS – Return Activated Sludge
RJV - RJV Group, Inc.
SCADA – Supervisory Control and Data Acquisition
SL-Rat® - Sewer Line Rapid Assessment Tool by InfoSense, Inc.
SSES – Sanitary Sewer Evaluation Study
SSO – Sanitary Sewer Overflow
SSR – Smith Seckman Reid, Inc.
TBD – To Be Determined
UV - Ultraviolet
WAS – Waste Activated Sludge
WWTP – Wastewater Treatment Plant

1. Executive Summary

CWL has maintained a longstanding effort in the effective and continuous management, operation, and maintenance of the collection system capacity and performance. This ongoing effort continued in 2017 through the corrective action activities that CWL committed to in both the CWL CAP submitted to ADEQ on March 28, 2016 and Addendum to CWL CAP submitted to ADEQ on April 14, 2016. As of November 1, 2017, the corrective actions outlined in CWL's CAP and follow-up Addendum have been accomplished or are on schedule to be achieved prior to the respective target completion date. For 2017, these activities included:

- i. Identified Phase I Capital Improvements
- ii. Acquisition of Lift Station Emergency Power
- iii. Began FOG Outreach to Public Schools
- iv. Continued Residential FOG Outreach
- v. Continued Seeking CMOM Software Solution
- vi. Trained 10 CWL Employees in NASSCO's PACP and MACP Programs
- vii. Performed SSES of Approximately 31 Miles of the Collection System
- viii. Performed Resultant Repairs for 2016 and 2017 SSES Basins

In addition to the corrective actions performed this year, CWL continued ongoing comprehensive SSO mitigation efforts through the routine inspection and maintenance programs for the collection system and lift stations and the CMOM programs and processes currently in place and active.

CWL, for many years, has demonstrated a culture of compliance and a commitment to SSO mitigation and, as outlined in this progress report, 2017 was no exception. For the period of November 1, 2016 thru October 31, 2017, CWL has documented CMOM expenses totaling over **\$1,295,000** and capital costs totaling over **\$1,363,000**. Also, CWL has identified several Phase I capital improvements slated to begin in 2018, with total estimated costs over **\$20,000,000**.

The ADEQ understands that SSO mitigation is an iterative and ongoing activity. CWL is pleased to present the activities outlined in this report as evidence of CWL's ongoing efforts in SSO mitigation. CWL believes that these proactive efforts and associated capital expenses, as well as the future corrective actions identified in CWL's CAP, demonstrate CWL's dedication to collection system improvements.

This CAP report constitutes CWL's sincere interest in ongoing and transparent communication with ADEQ beyond the fulfillment of our voluntary commitment of a Progress Report every two years, as presented in item IV of the Addendum to CWL CAP.

2. Corrective Action Plan Activities – 2017

CWL is pleased to report the corrective actions, as presented in the following sections, achieved in 2017 toward efforts to further mitigate SSOs in the collection system. To-date, the milestones outlined in CWL’s CAP submitted to ADEQ on March 28, 2016 and Addendum to CWL CAP submitted to ADEQ on April 14, 2016 have been achieved or are on schedule to be achieved prior to the respective target completion date. For the period of November 1, 2016 thru October 31, 2017, CWL has documented CMOM expenses totaling over **\$1,295,000** and capital costs totaling over **\$1,363,000**.

2.1. Corrective Actions-Phase I, Milestone #2 (CAP Addendum, April 14, 2016)

CWL provided the identification of Phase I Capital Improvements as Milestone #2 of Phase I (1st Quarter 2016 thru 4th Quarter 2020) in the Addendum to CWL CAP. This identification was targeted for completion by December 31, 2017.

CWL utilized the sanitary sewer system Hydraulic Model and Preliminary Collection System Evaluation, developed in conjunction with RJN and MW&Y respectively, coupled with CWL’s knowledge of the collection and WWTP systems to define specific capital improvement projects. CWL is pleased to provide, as outlined in Table 2-1, the capital improvements projected for completion in Phase I of the CWL CAP. The table includes a preliminary estimate on cost and the current project status for each. The following sections also briefly describe the proposed improvements. In addition, see Appendix A for preliminary maps summarizing the proposed improvements.

Table 2-1: Phase I Capital Improvements (As of November 1, 2017)

| Capital Improvement | Preliminary Cost Est. | Current Status |
|---|-----------------------|--|
| Eastside WWTP Wet Weather Hydraulic Upgrade | \$13 million | Design Complete & Submitted to ADEQ & ADH |
| Midtown Interceptor | \$5.9 million | Survey/Design/Property Acquisition in Progress |
| Ridgecrest Lift Station & Gravity Sewer | \$1.7 million | Preliminary Survey/Design in Progress |
| Kitchen Gravity Sewer | \$800,000 | Contingent on Midtown Interceptor Completion |

2.1.1. Eastside WWTP Wet Weather Hydraulic Upgrade

While the CWL Eastside WWTP biological treatment capacity remains more than sufficient as currently designed, the Plant's hydraulic capacity under wet weather flows was identified for certain capital improvements to optimize operation. MW&Y has, on CWL's behalf, recently submitted to ADEQ and ADH plans for hydraulic upgrades to the Plant, including the addition of 18 MGD head works pumping capacity, one 100' clarifier, and one 120' clarifier. An automated inlet flow-proportioning weir, RAS and WAS pumps, UV disinfection and additional structures and piping are also included in the proposed upgrades. CWL has projected a total cost of approximately **\$13 million** for the project and plans to begin construction in 2018. CWL has spent over **\$650,000** with MW&Y through October 31, 2017 for their work on this project. This amount does not include significant in-house costs for work performed by CWL engineering and management personnel.

2.1.2. Midtown Interceptor

In an effort to address capacity constraints in the midtown Jonesboro (i.e. E. Nettleton Ave, Kitchen St, E. Matthews Ave and Arkansas State University) area, CWL has contracted MW&Y to assist in the design of the Midtown Interceptor. The targeted area is defined by sanitary sewer basins JB18, JB19, JB20, and JB21, as shown in Appendix B, Basin Delineation. Preliminary survey and design information indicates the approximately four-mile gravity sewer will be a 24" line connecting the midtown area to the Northeast Interceptor sewer, placed in service September 2014. CWL has projected a total cost of approximately **\$5.9 million** for the project and tentatively plans to begin construction in late 2018.

2.1.3. Ridgecrest Lift Station & Gravity Sewer

The third capital project identified for Phase I serves to optimize the functionality of the Ridgecrest Lift Station through a redesign of the station to a lower hydraulic grade line. This modification is proposed to address capacity constraints in the Ridgecrest St, Sims Ave, Owens Ave, and Parkview St area (basin JB26; see App B, Basin Delineation). Depending on the final design of the lift station, gravity sewer upgrades may be required as part of this project to increase upstream conveyance capacity and remove a potential hydraulic throttle downstream of the force main. CWL has projected, contingent on the final scope of the modifications, a total cost of approximately **\$1.7 million** for the project and tentatively plans to begin construction in 2018.

2.1.4. Kitchen Gravity Sewer

Currently, the final significant capital improvement project scheduled for construction during Phase I involves various upgrades to the existing gravity sewer network in the midtown area bordered by E. Nettleton Ave, Kitchen St, Osler Dr, and E. Washington Ave (JB19 and JB20; see App B, Basin Delineation). The current scope of work is anticipated to include over 4,000 feet

of gravity sewer, ranging in size from 10” to 15”. However, survey work for model calibration has yet to be performed. CWL has projected a total cost of approximately **\$800,000** for these upgrades. As a gravity system upstream of the proposed Midtown Interceptor, the projected start date for these sewer network improvements is contingent on the completion of the interceptor construction.

2.2. Corrective Actions-Phase I, Milestone#4 (CAP Addendum, April 14, 2016)

In the 2016 Progress Report for the CWL CAP, 13 lift stations were identified for permanent generator and transfer switch installations. A summary of the evaluation for lift station emergency power needs (Phase I, Milestone #1 of CAP Addendum) and a prioritized schedule was presented in Section 2.2.3 and Appendix A of the 2016 Report, respectively. The generator acquisitions began in 2017 and the subsequent installations are part of the scheduled fulfillment of the Emergency Lift Station Operation Equipment Installations proposed for the end of 2019 (Phase I, Milestone #4 of CAP Addendum).

While CWL purchased three lift station generators in 2017 as scheduled in the 2016 Report, the locations for installation have been adjusted due to lift station emergency replacement needs, capital improvements, and pump upgrades. An updated summary of existing generator and scheduled generator installations is provided in Appendix C. CWL will invest over **\$122,000** in equipment costs alone to address lift station emergency power needs in 2017. CWL anticipates that the three generators purchased this year will be installed in late 2017 or early 2018, depending on weather conditions and personnel availability.

2.3. SSO Corrective Actions (CAP, March 28, 2016) Update

Table 2-2, below, provides an update to several of the corrective actions in the March 28, 2016 CAP. The status as of November 1, 2017 is included in the table and the following sections briefly describe the ongoing activities for each corrective action.

Table 2-2: SSO Corrective Actions from CAP Update

| Corrective Action | Current Status |
|--------------------------------|---|
| FOG Outreach to Public Schools | Began Presentations 6/20/17 |
| Residential FOG Outreach | Scheduling 2018 Activities |
| Selection of CMOM Software | Initial Implementation Steps Scheduled for 2018 |

2.3.1. FOG Outreach to Public Schools

CWL has developed a presentation titled “Where Does It Go?” to educate children about the water cycle and the effects FOG can have on private sewer lines, the collection system and the environment. As part of the presentation, experiments are conducted that demonstrates the difference between an unobstructed pipe and a pipe that is clogged with grease. Children are also shown proper grease disposal methods with the aid of an “Easy Greasy” grease scraper, which is provided to each child to take home.

Presentations began in June 2017 at the Craighead County Jonesboro Public Library as part of the summer program series “How to Make the Community a Better Place”. CWL also conducted presentations in September 2017 at the Health, Wellness, and Environmental Studies elementary school of the Jonesboro Public School District.

These presentations were very successful with positive feedback from educators and the students were engaged and inquisitive. Based on the response and understanding the potential impact of the presentations, CWL continues to work with the Jonesboro, Nettleton, and Valley View public schools to schedule presentations throughout the remaining school year and has similar plans for future school years.

2.3.2. Residential FOG Outreach

In an effort to continue CWL’s FOG outreach to residential customers, CWL utilized in 2017 the media outlets outlined in Table 2-3 to further educate the public.

Table 2-3: Residential FOG Outreach Update

| Outreach Method | Date(s) |
|--|--|
| Closed Caption Ad – KAIT-TV, Channel 5 NBC | January 1, 2017 thru December 31, 2017 |
| Billboard – Southwest Drive | March 1, 2017 thru April 30, 2017 |
| Billboard – Caraway Rd at Nettleton Ave | March 1, 2017 thru April 30, 2017 |
| Newspaper - Jonesboro Sun ad | April 22, 2017 |
| Radio Ad – KFLO 102.9 | July 5, 2017 thru August 5, 2017 |
| Newspaper - Jonesboro Sun ad | November 22, 2017 |

In addition to these outreach efforts, CWL continues to use the organization's website, monthly employee newsletter, and monthly customer billing to further this endeavor. For 2017, the total CWL investment for all of the outlined activities is over **\$24,000**, excluding any administrative costs. CWL plans to continue an effective FOG public outreach effort through the various media outlets in the future as part of CWL's FOG Management Program.

2.3.3. Selection of CMOM Software

In 2017, CWL followed the CWL CMOM Program Software Committee's recommendation to further develop internal databases and data collection processes that allowed integration with CWL's IBM i server. CWL also continued to evaluate software and mapping solutions to bring into the program that would add value to CWL's existing system and avoid duplication of many processes.

After further research and discussion with other utilities and software providers, CWL has identified GIS-based mapping for the sanitary sewer system as the necessary first step toward a long term solution for CMOM data management. Based on this decision, CWL is currently in discussions with ESRI/ArcGIS concerning an implementation plan for the GIS mapping of CWL's collection system. CWL anticipates beginning this process in 2018 as the first step in a long-term software solution that benefits the overall management, maintenance, and operation of CWL's sanitary sewer system.

2.3.3.1. NASSCO PACP and MACP Training

Through CWL's research into CMOM software solutions, CWL identified NASSCO PACP and MACP training as an important skill in the identification and ranking of resultant repairs in the SSES basins. CWL also quickly realized, as stated by NASSCO, the value of providing standardization and consistency to the methods in which pipeline and manhole conditions are identified, evaluated and managed. As a result, CWL contracted with Hydromax USA to perform in-house training for 10 CWL operations and engineering employees in PACP and MACP coding certification. The training was completed in November at a total cost of over **\$7,600**.

2.4. Corrective Actions-Phase I, Milestone #5 (CAP Addendum, April 14, 2016) Status

As a portion of Milestone #5 of Phase I of CAP Addendum, CWL provided a target completion date of December 31, 2020 for achieving an SSES on 1/3 of the CWL collection system, with an average of approximately 27 miles per year. CWL prioritized basins JB17, JB18, and JB32 to study in 2017 (App B, Basin Delineation) for an estimated total of 31 miles of the sewer system. The status and

results of the activities under this milestone, as of November 1, 2017, are briefly outlined in the following section.

2.4.1. SSES Activities-Status and Results

The following Table 2-4 provides a summary of SSES activities and results for JB17, JB18, and JB32.

Table 2-4: Phase I, Milestone #5-SSES Activities (As of November 1, 2017)

| Service | Quantity | | | |
|----------------------------------|------------|------------|------------|-------------------|
| | JB 17 | JB 18 | JB 32 | 2017 Basins Total |
| Manhole Inspections (1) | 230 | 269 | 256 | 755 |
| Repair/Seal Manhole (7) | 51 | 150 | 127 | 328 |
| Adjust Manhole | 1 | 4 | 4 | 9 |
| Replace Manhole Ring | 0 | 4 | 4 | 8 |
| Line Testing and Repairs | | | | |
| Smoke Test (ft) (2) | 50,136 | 58,904 | 57,709 | 166,749 |
| Dye Test | 17 | 8 | 17 | 42 |
| CCTV (ft) (3) | 6,502 | 4,593 | 13,110 | 24,205 |
| Main Cleaned (ft) (4) | 40,630 | 46,286 | 58,310 | 145,226 |
| Roots Cut (ft) | 2,278 | 792 | 3,104 | 6,174 |
| SL-Rat® (ft) (5) | 48,539 | 48,002 | 53,421 | 149,962 |
| Replace Clean Out Caps | 34 | 34 | 61 | 129 |
| Laterals Identified/Repaired (6) | 7/4 | 12/3 | 10/6 | 29/13 |
| Resultant Main Repairs | 3 | 1 | 4 | 8 |

Notes:

- (1) Manhole inspections are 100% complete
- (2) 100% of each JB was smoke tested
- (3) CCTV footage from smoke test defects and SL-Rat® assessments
- (4) Some back lot lines in JB17 & JB18 were not cleaned (checked for blockages with SL-Rat®). JB32 required some cleaning duplication.
- (5) SL-Rat® assessments of 12" lines and smaller
- (6) Customers notified of lateral defects / Laterals repaired by customers and inspected by CWL
- (7) May include other identified repairs, such as adjust manhole

For the 2017 SSES activities, CWL began with 100% inspection of the manholes in each of the three basins selected. As of November 1, 2017, manhole inspections for the three basins are 100% complete. Detailed inspection results are provided in Appendix D. The inspections identified 345 manhole resultant repairs. See Appendix E for details and status of these repairs.

In addition to the manhole inspections, CWL crews cleaned main lines within each basin, including 100% of JB32. All lines were cleaned in JB17 and JB18 except for some back lot lines that were evaluated for obstructions with the SL-Rat®.

Smoke testing is 100% complete in each basin along with the gathering of CCTV footage. CCTV data, with the aid of dye testing, identified 29 lateral repairs and 8 main repairs within the three basins. Appendix F details the lateral repairs identified, dates the customers were notified and the current status of the repairs. Appendix G provides specifics on the resultant main repairs identified.

2.5. Corrective Actions-Phase II, Milestone #2 (CAP Addendum, April 14, 2016) Status

As a portion of Milestone #2 of Phase II (1st Quarter 2021 thru 4th Quarter 2025) of CAP Addendum, CWL provided a target completion date of December 31, 2025 for achieving Phase I SSES Resultant Repairs. The following sections briefly describe the status of Phase I resultant repairs, as of November 1, 2017.

2.5.1. Manhole SSES Resultant Repairs

As described in Section 2.4.1., CWL identified 345 manhole repairs for JB17, JB18, and JB32 in 2017. At the time of the 2016 Progress Report, manhole inspections scheduled for that year were 90% complete and 52 resultant repairs were also complete. Detailed results for the final 10% of the 2016 inspections are included in Appendix D. Upon completion, CWL had identified 91 manhole resultant repairs for the 2016 basins of JB07, JB24, JB25, and JB26. The status of the repairs identified in 2017 and 2016 is summarized in Appendix E.

As stated in CWL's 2016 Progress Report, CWL conducted an evaluation of the brick manholes previously rehabbed in the late 1980s and early 1990s for updated rehab needs. CWL has determined that the optimum course of action at this time, considering the current available information, is to contract out a complete rehabilitation of all brick manholes, both previously rehabbed and untouched, within the basins studied for 2016 and 2017. This decision was based on the evaluation and consultation with other utilities and engineering consultants.

CWL is currently working with SSR to develop detailed contract specifications for the cementitious lining of 326 brick manholes from the 2016 basins and 228 brick manholes from the 2017 basins. CWL estimates the cost of this contract at approximately **\$440,000**, excluding consulting services and in-house labor expenses. CWL plans to let the contract out for bids in late 2017 or early 2018. Detailed spreadsheets regarding the manholes identified for rehabilitation are available upon request.

During the manhole rehab evaluation, CWL also determined that replacing the older-style, heavy ring and lids under the influence of sheet flow in rain events had the potential to significantly reduce I&I. Therefore as a precursor to the cementitious lining work, CWL utilized in-house personnel to replace 154 heavy ring and lids within the 2016 basins. This work is now complete and the current balance shows CWL has invested almost **\$103,000** toward this effort. CWL is currently developing a work order to replace 95 heavy ring and lids (and 10 additional ring and lids found in the final 2016 inspections) determined during 2017 inspections to be under sheet flow in rain events. Detailed spreadsheets regarding the manholes with ring and lid replacements complete and scheduled are available upon request.

2.5.2. Sewer Lateral SSES Resultant Repairs

As described in Section 2.4.1., CWL identified 29 sewer lateral repairs for JB17, JB18, and JB32 in 2017. At the time of the 2016 Progress Report, CCTV inspections scheduled for that year were 40% complete. Upon completion, CWL had identified 52 lateral resultant repairs for the 2016 basins of JB07, JB24, JB25, and JB26. The status of the repairs identified in 2017 and 2016 is summarized in Appendix F.

2.5.3. Main Line SSES Resultant Repairs

As described in Section 2.4.1., CWL identified 8 main line repairs for JB17, JB18, and JB32 in 2017. At the time of the 2016 Progress Report, CCTV inspections scheduled for that year were 40% complete. Upon completion, CWL had identified 19 main line resultant repairs for the 2016 basins of JB07, JB24, JB25, and JB26. The status of the repairs identified in 2017 and 2016 is summarized in Appendix G.

In conjunction with the repair efforts listed in Appendix G, CWL is currently evaluating main line repairs for potential candidates for CIPP lining. CWL is developing a list of prospective mains from identified repairs both within and outside the 2016 and 2017 basins. Upon completion of the manhole rehabilitation specifications, CWL plans to work with SSR to develop contract specifications for CIPP lining bids. CWL tentatively plans to let a contract for bids on these repairs in 2018. A detailed spreadsheet regarding the main lines identified for potential CIPP lining is available upon request.

3. Routine Collection System Inspections/Maintenance

In addition to the SSES activities of the three 2017 basins and all SSES resultant repairs outlined in the previous section, CWL performed the SSO corrective actions summarized in Table 3-1 as part of the routine inspection and maintenance of the collection system in various areas throughout the system.

Table 3-1: 2017 Routine Collection System Maintenance (November 1, 2016 thru October 31, 2017)

| Service | Quantity |
|------------------------------------|----------------------------|
| | Routine Maintenance |
| Manhole Improvements | |
| Repair/Seal Manhole | 42 |
| Adjusted Manhole | 53 |
| Replace Manhole Ring | 3 |
| Line Testing and Repairs | |
| Smoke Test (ft) | 7,200 |
| Dye Test | 115 |
| CCTV (ft) | 137,479 |
| Main Cleaned (ft) | 553,220 |
| Roots Cut (ft) | 47,837 |
| SL-Rat® (ft) (1) | 1,001,681 |
| Laterals Identified / Repaired (2) | 36/13 |
| Point Patch | 58 |
| Repaired Sewer Main | 8 |
| Chemical Root Treatment (ft) | 40,119 |
| Capped Abandoned Laterals | 20 |
| CWL Repaired Laterals | 2 |
| Ditch Crossings Inspected | 48 |
| Air Relief Valves Inspected | 4 |
| Back-Lot Lines Inspected | 31 |

Notes:

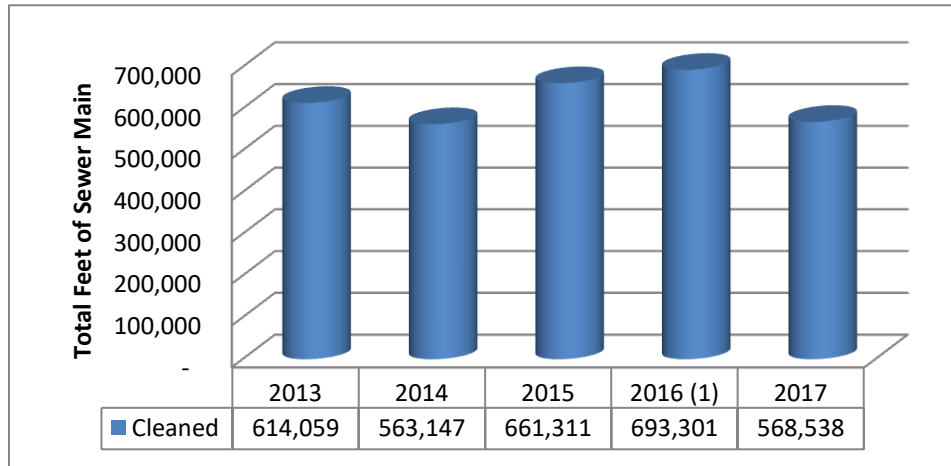
- (1) SL-Rat® assessments of 12" lines and smaller
- (2) Customers notified of lateral defects / Laterals repaired by customers and inspected by CWL

The following sections briefly provide further details for some of these SSO corrective actions.

3.1. Sewer Mains Cleaned

As presented in the CAP, CWL sewer service trucks maintain the system through routine cleaning. Graph 3-1 provides a summary of the past 4 year totals, along with the total footage cleaned for January 1st thru October 31st of 2017.

Graph 3-1: Sewer Mains Cleaned (2013 thru October 31, 2017)



Note:
Footage cleaned from November 2016 (60,910') and December 2016 (68,998') was added to the footage reported in the 2016 Progress Report - Total Feet of Sewer Main Cleaned in 2016 (563,393').

3.2. SL-Rat® Activities

As stated in the 2016 Progress Report, CWL began utilizing the SL-Rat® in July of 2016 to increase efficiency of sewer line blockage assessment. As CWL has refined procedures for the effective use of the data produced for different main sizes and material, CWL has found this tool allows for more efficient hydro cleaning efforts and CCTV inspections and thus increased SSES productivity and SSO mitigation.

Based on these results, CWL continued use of the SL-Rat® to test 100% of the three 2017 SSES basins and to operate routinely throughout the collection system. In September of 2017, CWL purchased, at a cost of more than **\$26,000**, a second SL-Rat® to expand efforts in efficient assessment and cleaning of the collection system.

Table 3-2 shows the ratings of the total line segments, including the almost 150,000' in the 2017 SSES basin segments, tested with the SL-Rat® from November 1, 2016 thru October 31, 2017. A detailed report of the line segments tested in the 2017 SSES basins is located in Appendix H. A complete report of all line segments tested in 2017 is available upon request.

Table 3-2: SL-Rat® Sewer Line Assessment Results (November 1, 2016 thru October 31, 2017)

| SL-Rat® Data for Total System | |
|-------------------------------|--------------------------|
| Rating (1) | Quantity (line segments) |
| 10-6 | 4,586 |
| 5-0 | 738 |
| Footage= 1,151,643 | |

Note: Scale for rating is 0= Block, 1-3= Poor, 4-6= Fair, 7-10= Good

3.3. Root Control Activities

Through CWL's contract with Duke's Root Control, Inc, 40,119' of sewer mains were chemically treated in 2017 at a cost of approximately **\$64,500**. A detailed report of the line segments, located throughout the collection system, chemically treated in 2017 is provided in Appendix I.

In addition to chemical treatment, CWL has continued its practice of using a sewer rodding machine and sewer trucks equipped with jetter nozzles for controlling roots within the collection system. Approximately 54,000' of sewer mains were root cut throughout the 40 basins of the system to-date in 2017.

4. Lift Stations Maintenance and Upgrades

From November 1, 2016 thru October 31, 2017, CWL has invested, including material and labor, over **\$306,000** on lift station operation and maintenance.

In 2017, CWL upgraded the Minx Hill (Hwy 226) lift station from an almost 30-year-old Crown Triple D station with 15HP pumps to a Smith & Loveless above ground complete station with 20HP pumps. The upgrade includes the addition of a manual transfer switch, flow meter, generator, hydro ranger and PLC for SCADA communication. The total costs to-date for this project is almost **\$113,000**, which does not include the labor for installation, generator or fencing.

CWL is in the process of evaluating and prioritizing future lift station needs and determining if any lift station projects should be scheduled for 2018 in addition to the Ridgecrest lift station discussed in Section 2.1.3.

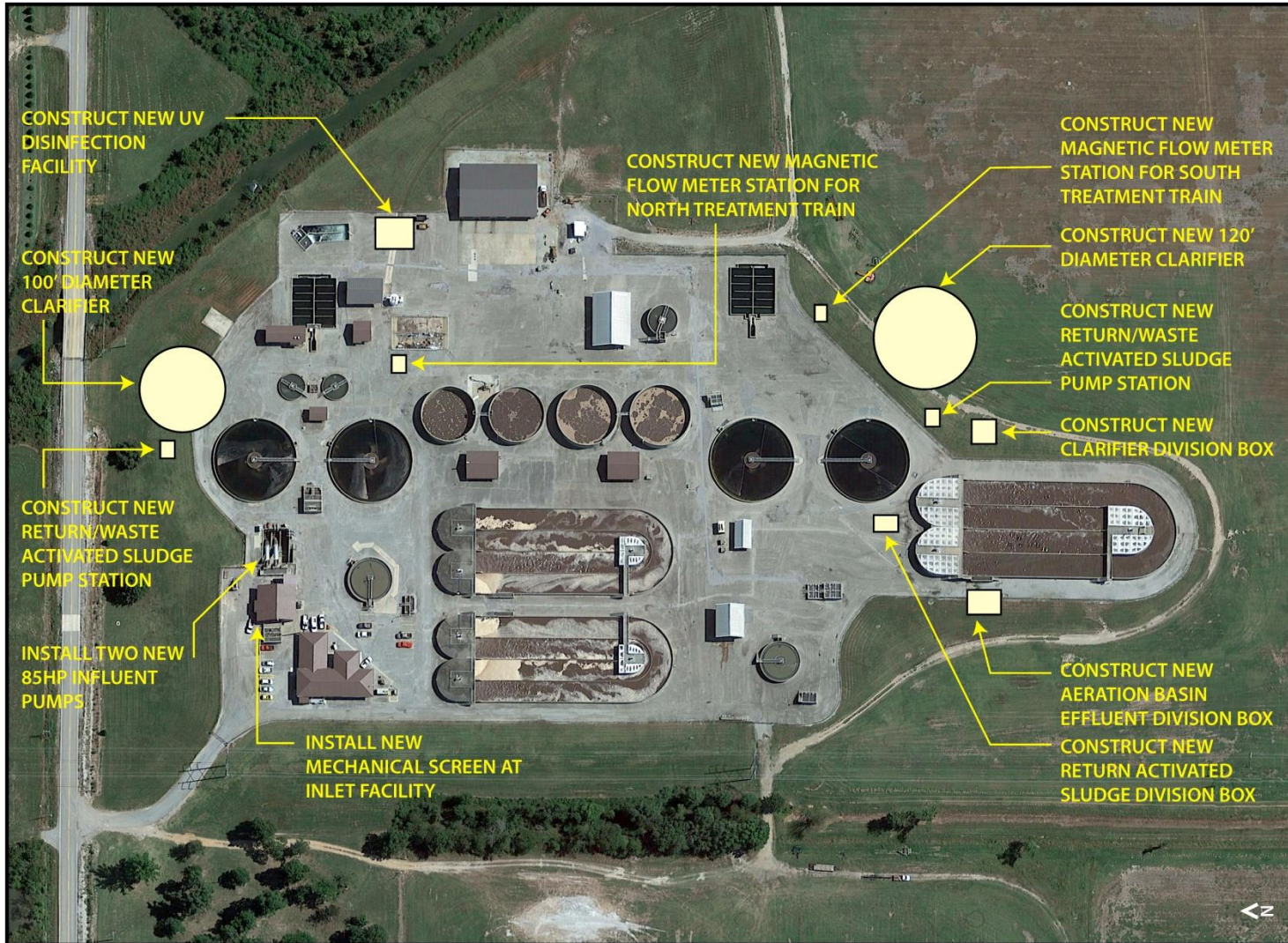
5. Conclusions

CWL is pleased to present the activities outlined in this report as evidence of CWL's ongoing efforts in SSO mitigation. As stated in the CAP, CWL fully understands the iterative, ongoing nature of this process and is committed to continual improvement of the management and operation of the collection system and maintaining adequate capacity of the system. CWL believes that these proactive efforts and associated capital expenses, as well as the future corrective actions identified in CWL's CAP, demonstrate CWL's dedication to collection system improvements.

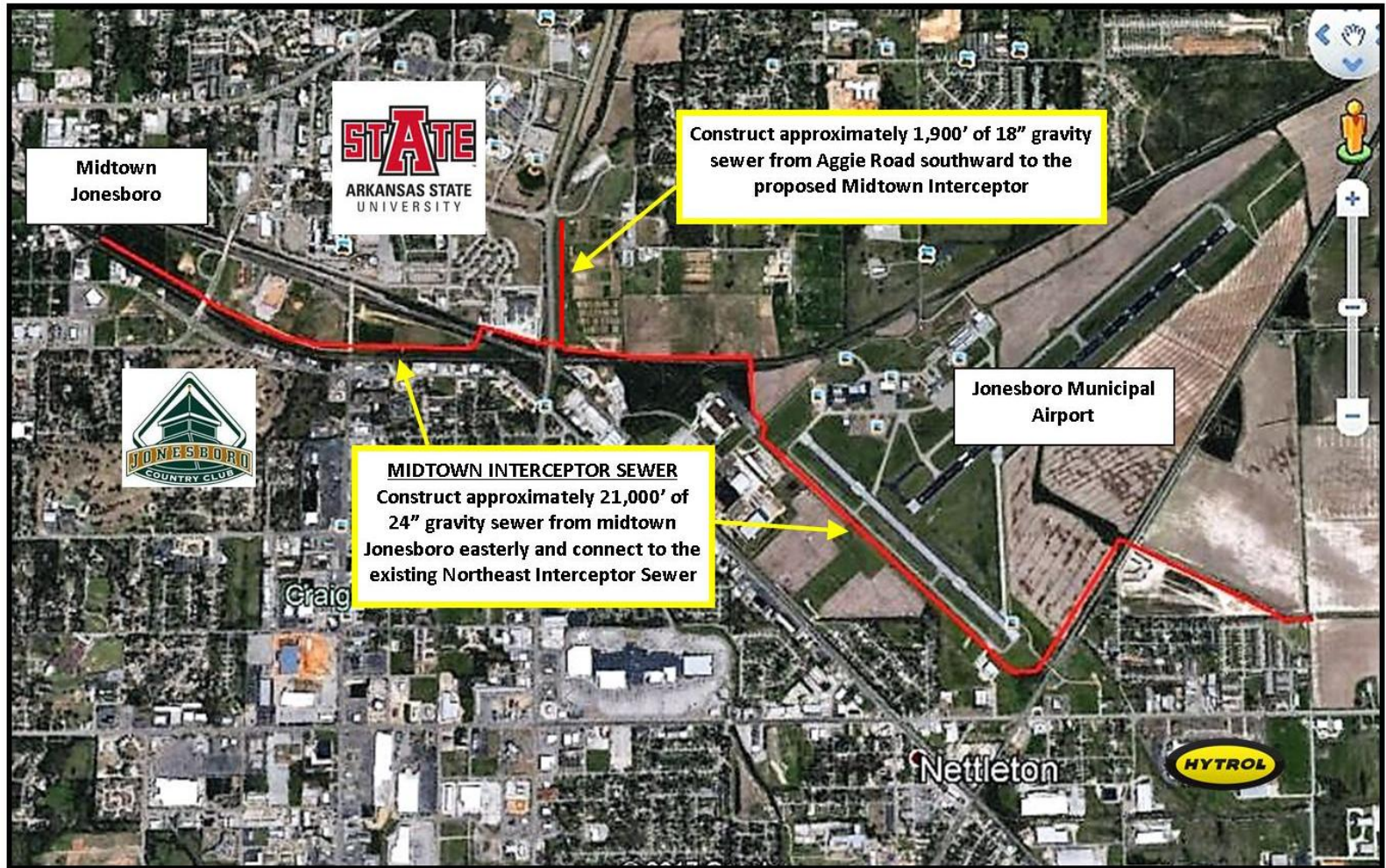
This CAP report constitutes CWL's sincere interest in ongoing and transparent communication with ADEQ beyond the fulfillment of our voluntary commitment of a Progress Report every two years, as presented in item IV of the Addendum to CWL CAP.

Appendix A

Phase I Capital Improvements



EASTSIDE WASTEWATER TREATMENT PLANT IMPROVEMENTS



Midtown Interceptor Sewer





Ridgecrest Lift Station and Gravity Sewer





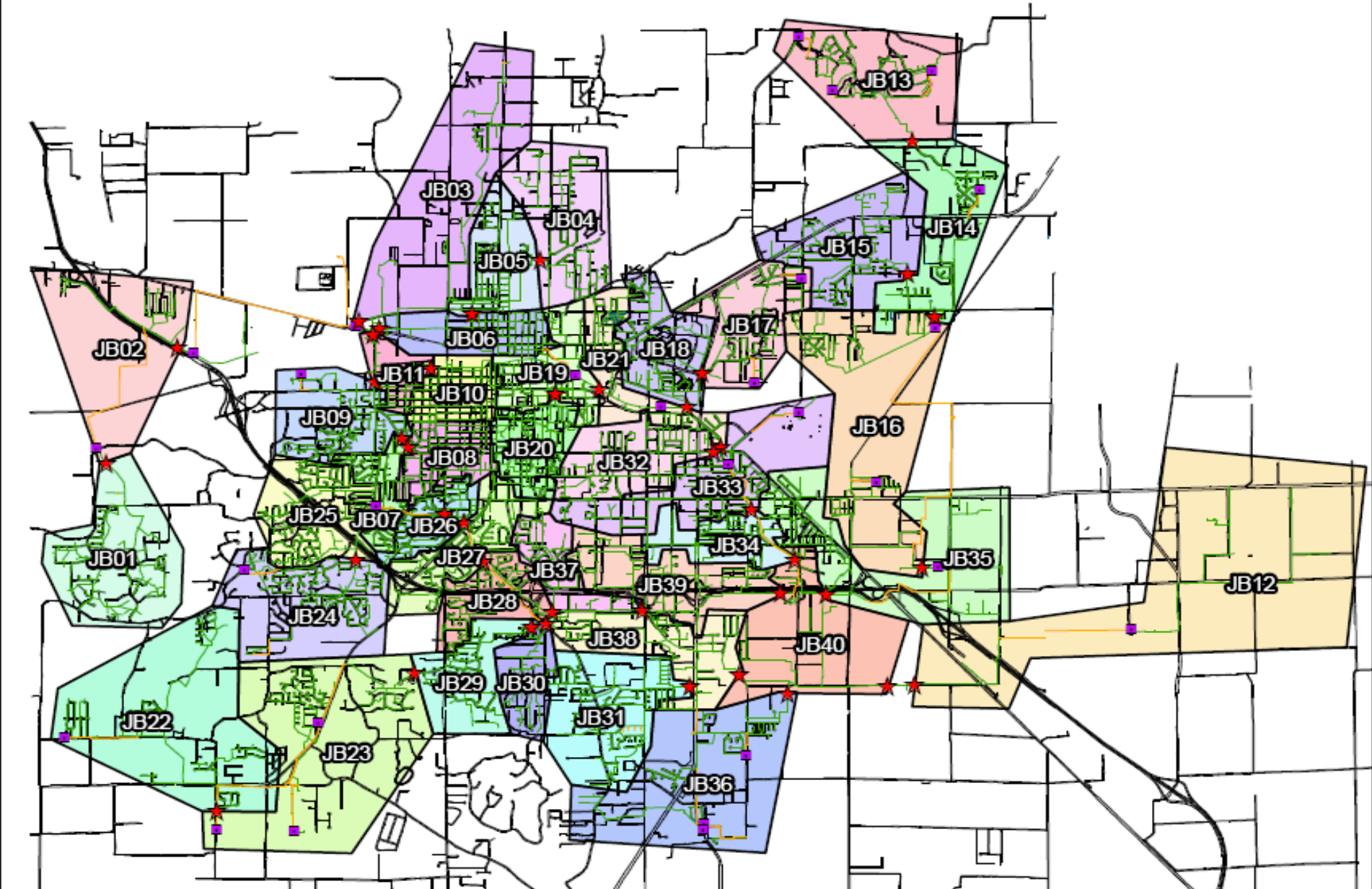
Kitchen Gravity Sewer



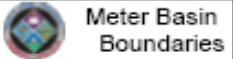
Appendix B

Basin Delineation

Jonesboro, AR



★ Meter Site — Force Mains □ R/JN Meter Basins
■ Lift Stations — Sewer Lines



Appendix C

CWL Lift Station Emergency Power

| CWL Lift Station Emergency Power | | | | | | |
|----------------------------------|-----------------|------------------------|-----------------------|----------------------------|----------|--|
| LIFTSTATION | | | Station Standby Power | | | |
| | Transfer Switch | Quick Connect for Pump | Status | Type | Date (1) | Comments |
| Airport | No | No | Absent | On-site generator | 2019 | |
| Beaver Creek/Prairie Meadow | No | Yes | Absent | On-site generator | 2019 | |
| Clinton School | Yes | Yes | Present | On-site generator | 2013 | |
| Colony Park | No | No | Absent | On-site generator | 2019 | |
| Commerce Dr | Yes | Yes | Present | On-site generator | 2011 | |
| Congress Cir.- W.Washington | No | No | Absent | On-site generator | 2019 | |
| Dorton Rd | Yes | No | Present | On-site generator | 1990 | |
| Hereford | Yes | Yes | Absent | On-site generator | 2018 | |
| Horseshoe Trail | No | No | Absent | On-site generator | 2018 | Generator purchased 2017 |
| Minx Hill (Hwy 226) | No | No | Absent | On-site generator | 2018 | Generator purchase pending |
| Morton & Mitchell | No | No | N/A | Portable generator | N/A | To be decommissioned pending development |
| Northwest (Main Lift) | Yes | No | Present | On-site generator | 1977 | Replacement generator purchased 2017 |
| Oak Park | Yes | Yes | Present | On-site generator | 2011 | |
| Ridgecrest | No | No | Absent | On-site generator | 2018 | Generator purchase pending planned upgrades to station |
| Sage Meadows #1 (Southern Hills) | No | No | Absent | On-site generator | 2018 | |
| Sage Meadows #2 (Hwy 351) | No | No | Absent | On-site generator | 2019 | |
| Sage Meadows #3 (Lochmoor) | No | No | Absent | On-site generator | 2019 | |
| South Bend | No | No | N/A | Portable generator | N/A | To be decommissioned pending development |
| Southeast (2 generators) | Yes | No | Present | On-site generator | 1977 | |
| | Yes | No | Present | On-site generator | 2008 | 1990 model |
| Southwest | Yes | No | Present | On-site generator | 1999 | |
| Sports Complex | Yes | Yes | Present | On-site generator | 2011 | |
| Spring Valley | No | No | Absent | On-site generator | 2019 | |
| Strawfloor | Yes | No | Present | On-site generator (Manual) | 2011 | |
| Sunset Hills | No | No | N/A | Portable generator | N/A | Decommissioned by gravity sewer 2017 |
| Turtle Creek | No | No | Absent | On-site generator | 2017 | Generator purchased 2017 |
| Valley View | Yes | Yes | Present | On-site generator | 2012 | |
| Wimpy Ln | Yes | No | Present | On-site generator | 2011 | |

Notes:

Revised: 12/4/2017

(1) Year indicates the time standby power was provided or target for permanent standby power to be operational.

Appendix D

Manhole Inspection Reports

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|---------------------|----------------|----------------|
| 5 | 173 | 17 | 5/17/2017 | 207 Longhorn Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 172 | 17 | 5/17/2017 | 207 Longhorn Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Brick | Sound | Sound | Concrete |
| 5 | 242 | 17 | 5/17/2017 | 3600 Leslie Ann Dr | TRUE | Grass | New Style | Brick | Sound | Sound | None | TRUE | Brick | Sound | Sound | Concrete |
| 5 | 254 | 17 | 5/17/2017 | 3600 Leslie Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 255 | 17 | 5/17/2017 | 3604 Leslie Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 256 | 17 | 5/17/2017 | 603 Kitterman Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 257 | 17 | 5/17/2017 | Kitterman Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 258 | 17 | 5/17/2017 | Toni Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 259 | 17 | 5/17/2017 | Toni Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 260 | 17 | 5/17/2017 | Toni Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 617 | 17 | 5/17/2017 | 3207 Fielders Dr | TRUE | Grass | New Style | Metal/Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 618 A | 17 | 5/17/2017 | E. Johnson/Fielders Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 618 | 17 | 5/17/2017 | E. Johnson/Fielders Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 616 | 17 | 5/17/2017 | 3207 Fielders Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 615 | 17 | 5/17/2017 | 3207 Fielders Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 339 | 17 | 5/17/2017 | 3207 Fielders Dr | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 338 | 17 | 5/17/2017 | 3207 Fielders Dr | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 337 | 17 | 5/17/2017 | 3207 Fielders Dr | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 619 | 17 | 5/16/2017 | 3215 E. Johnson Ave | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 710 | 17 | 5/16/2017 | 3215 E. Johnson Ave | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 711 | 17 | 5/16/2017 | 2000 Fielders Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 620 | 17 | 5/16/2017 | 3207 Fielders Dr | TRUE | Chat/Gravel | Light | None | Sound | Sound | None | TRUE | Poured In Place | Sound | Sound | Concrete |
| 5 | 621 | 17 | 5/16/2017 | 3207 Fielders Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 336 | 17 | 5/16/2017 | 3207 Fielders Dr | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 221 | 17 | 5/16/2017 | 325 Leslie Ann Dr | TRUE | Grass | Light | None | Sound | Sound | Previous | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 220 | 17 | 5/15/2017 | 325 Leslie Ann Dr | TRUE | Grass | Light | None | Sound | Sound | Previous | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 219 | 17 | 5/15/2017 | 325 Leslie Ann Dr | TRUE | Grass | Light | None | Sound | Sound | Previous | TRUE | Precast | Sound | Sound | Clay |
| 5 | 218 | 17 | 5/15/2017 | 3207 E. Johnson Ave | TRUE | Grass | Light | None | Sound | Sound | Previous | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 214 | 17 | 5/15/2017 | 503 Temple Ct | TRUE | Grass | Light | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Clay |
| 5 | 201 | 17 | 5/15/2017 | 501 Temple Ct | TRUE | Grass | New Style | Concrete | Sound | Sound | Previous | TRUE | Brick | Sound | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|---------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|------------------------------|-----------------------------|----------------|
| 5 | 203 | 17 | 5/15/2017 | 408 University Dr | TRUE | Grass | Heavy | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Roots | Concrete |
| 5 | 202 | 17 | 5/15/2017 | 505 Temple Ct | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Sound | Sound | Concrete |
| 5 | 192 | 17 | 5/15/2017 | 411 Lynne Ct | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 199 | 17 | 5/15/2017 | 404 University Dr | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Brick | Sound | Sound | Clay |
| 5 | 194 | 17 | 5/15/2017 | 217 University Dr | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 198 | 17 | 5/15/2017 | 307 University Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Poured In Place | Sound | Sound | Concrete |
| 5 | 196 | 17 | 5/15/2017 | 208 Karen Ct | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Poured In Place | Sound | Sound | Concrete |
| 5 | 195 | 17 | 5/15/2017 | University Dr/Karen Ct | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 197 | 17 | 5/15/2017 | 205 University Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Poured In Place | Sound | Sound | Concrete |
| 5 | 215 | 17 | 5/15/2017 | 501 Temple Ct | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 200 | 17 | 5/11/2017 | 411 Lynne Ct | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Sound | Sound | Concrete |
| 5 | 191 | 17 | 5/11/2017 | 411 Lynne Ct | TRUE | Grass | Heavy | Concrete | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 190 | 17 | 5/11/2017 | 3000 Aggie Rd | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Sound | Sound | Clay |
| 5 | 189 | 17 | 5/11/2017 | 3000 Aggie Rd | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Sound | Leaking/Evidence of Leaking | Clay |
| 5 | 175 | 17 | 5/11/2017 | 3000 Aggie Rd | TRUE | Grass | Heavy | Brick | Sound | Sound | Previous | TRUE | Brick | Sound | Pipe Penetrations Leaking | Clay |
| 5 | 176 | 17 | 5/11/2017 | 3000 Aggie Rd | TRUE | Grass | New Style | Concrete | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 174 | 17 | 5/11/2017 | 3000 Aggie Rd | TRUE | Grass | Heavy | None | Sound | Offset | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 170 | 17 | 5/11/2017 | 3000 Aggie Rd | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 340 | 17 | 5/11/2017 | 3000 E. Johnson Ave | TRUE | Grass | New Style | Metal | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 341 | 17 | 5/11/2017 | Johnson Ave/Red Wolf Blvd | TRUE | Grass | New Style | Metal | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 342 | 17 | 5/11/2017 | 3000 E. Johnson Ave | TRUE | Grass | New Style | Metal | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 343 | 17 | 5/11/2017 | 2907 E. Johnson Ave | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 344 | 17 | 5/11/2017 | 3000 E. Johnson Ave | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 345 | 17 | 5/11/2017 | 2800 E. Johnson Ave | TRUE | Grass | New Style | Concrete | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 709 | 17 | 5/11/2017 | 2610 E. Johnson Ave | TRUE | Grass | New Style | Metal | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 708 | 17 | 5/11/2017 | 2610 E. Johnson Ave | TRUE | Grass | New | Concrete | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |

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|-------------|-----------|------|--------------------|-------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|------------------------------|----------------|----------------|
| | | | | | | | Style | | | | | | | | | |
| 5 | 348 | 17 | 5/11/2017 | 2614 E. Johnson Ave | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 347 | 17 | 5/11/2017 | 2712 E. Johnson Ave | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 346 | 17 | 5/11/2017 | 2800 E. Johnson Ave | TRUE | Grass | New Style | Concrete | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 6 | 111 | 18 | 5/2/2017 | 1016 Sylvan Hill Dr | TRUE | Asphalt | Heavy | None | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 5 | 364 | 18 | 5/2/2017 | 2207 Greensboro Rd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 5 | 109 | 18 | 5/2/2017 | 1000 Sylvan Hill Dr | TRUE | Asphalt | Heavy | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 5 | 108 | 18 | 5/2/2017 | 909 Sylvan Hill Dr | TRUE | Asphalt | Heavy | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 5 | 356 | 18 | 5/2/2017 | 915 Live Oak Cir | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Poured In Place | Sound | Sound | Concrete |
| 5 | 355 | 18 | 5/2/2017 | 915 Live Oak Cir | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 360 | 18 | 5/3/2017 | 1008 Ransom Dr | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 357 | 18 | 5/3/2017 | 1000 Ransom Dr | TRUE | Concrete/Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 354 | 18 | 5/3/2017 | 1000 Ransom Dr | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 353 | 18 | 5/3/2017 | 914 Willow Oak Cir | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 352 | 18 | 5/3/2017 | 912 Willow Oak Cir | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 351 | 18 | 5/3/2017 | 902 Willow Oak Cir | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 349 | 18 | 5/3/2017 | 101 Green Leaf | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 350 | 18 | 5/3/2017 | 815 Sylvan Hill Dr | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 107 | 18 | 5/3/2017 | Green Leaf/Sylvan Hill | TRUE | Asphalt | Heavy | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 95 | 18 | 5/19/2017 | N. Caraway Rd/Austin Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 5 | 104 | 18 | 5/19/2017 | 906 N. Caraway Rd | TRUE | Concrete/Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 103 | 18 | 5/19/2017 | 804 N. Caraway Rd | TRUE | Concrete | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 5 | 375 | 18 | 5/19/2017 | 804 N. Caraway Rd | TRUE | Concrete | New Style | Metal | Sound | Sound | None | TRUE | Precast | Sound | Sound | Clay |
| 5 | 102 | 18 | 5/19/2017 | 710 N. Caraway Rd | TRUE | Asphalt | Heavy | Metal | Broken | Cracked | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 5 | 101 | 18 | 5/19/2017 | 704 N. Caraway Rd | TRUE | Concrete | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |

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|-------------|-----------|------|--------------------|-----------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|------------------------------|---------------------------------------|----------------|
| 5 | 614 | 18 | 5/19/2017 | 1916 Alex Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | TRUE | Poured In Place | Sound | Sound | Concrete |
| 5 | 613 | 18 | 5/19/2017 | 2008 Alex Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 612 | 18 | 5/19/2017 | 804 Alex Cv | TRUE | Grass | New Style | Concrete | Sound | Offset | None | TRUE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 5 | 611 | 18 | 5/19/2017 | 800 Alex Cv | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 610 | 18 | 5/19/2017 | 2110 Alex Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 100 | 18 | 5/19/2017 | 608 N. Caraway Rd | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 5 | 97 | 18 | 5/19/2017 | N. Caraway Rd/Belt St | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 5 | 707 | 18 | 5/19/2017 | N. Caraway Rd/Belt St | TRUE | Asphalt | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Leaking Joints | Clay |
| 5 | 570 | 18 | 5/19/2017 | 2021 Belt St | TRUE | Concrete | New Style | Concrete | Broken | Sound | None | TRUE | Poured In Place | Sound | Sound | Concrete |
| 5 | 99 | 18 | 5/19/2017 | 2202 Belt St | TRUE | Asphalt | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 98 | 18 | 5/19/2017 | 2227 Belt St | TRUE | Asphalt | New Style | Concrete | Broken | Offset | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 96 | 18 | 5/19/2017 | 407 N. Caraway Rd | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 5 | 93 | 18 | 5/19/2017 | N. Caraway Rd/Winn St | TRUE | Concrete/Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Brick | Sound | Sound | Clay |
| 5 | 94 | 18 | 5/19/2017 | Winn St | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 124 | 18 | 5/19/2017 | 2110 Cedar Heights Dr | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 122 | 18 | 5/19/2017 | Sybel Dr/Russell Dr | TRUE | Grass | New Style | Brick | Sound | Sound | None | TRUE | Precast | Sound | Lifting Hole | Concrete |
| 5 | 123 | 18 | 5/19/2017 | 2210 Sybel Dr | TRUE | Concrete | New Style | Brick | Sound | Sound | None | TRUE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 121 | 18 | 5/19/2017 | 324 Russell Dr | TRUE | Grass | New Style | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 120 | 18 | 5/19/2017 | 313 Russell Dr | TRUE | Concrete/Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 119 | 18 | 5/19/2017 | 316 Russell Dr | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Material Deposition on Bench | Roots/Leaking/ Evidence of Leaking | Concrete |
| 5 | 118 | 18 | 5/19/2017 | 304 Russell Dr | TRUE | Grass | New Style | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 112 | 18 | 5/19/2017 | 221 Russell Dr | TRUE | Concrete | Heavy | None | Sound | Sound | None | TRUE | Brick | Sound | Sound | Concrete |
| 5 | 113 | 18 | 5/19/2017 | 205 Russell Dr | TRUE | Asphalt | New Style | None | Sound | Sound | None | TRUE | Brick | Sound | Sound | Concrete |
| 5 | 606 | 17 | 5/23/2017 | 3601 Hereford Dr | TRUE | Grass | New Style | Concrete | Sound | Cracked | None | TRUE | Precast | Sound | Sound | Concrete |

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|-------------|-----------|------|--------------------|---------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|---------------------|-----------------------------|----------------|
| 5 | 607 | 17 | 5/23/2017 | 3601 Hereford Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | TRUE | Precast | Sound | Leaking Joints | Concrete |
| 5 | 599 | 17 | 5/23/2017 | 301 Mark St | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 600 | 17 | 5/23/2017 | 301 Mark St | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 601 | 17 | 5/23/2017 | 301 Mark St | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 602 | 17 | 5/23/2017 | 208 Mark St | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 603 | 17 | 5/23/2017 | 112 Mark St | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 604 | 17 | 5/23/2017 | 603 Mark St | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 591 | 17 | 5/23/2017 | 3701 Fielder Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 420 | 17 | 5/23/2017 | 100 Holmes Rd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 108 | 17 | 5/23/2017 | 108 Holmes Rd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 605 | 17 | 5/23/2017 | 208 Holmes Rd | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 568 | 17 | 5/23/2017 | 212 Holmes Rd | TRUE | Concrete | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 569 | 17 | 5/23/2017 | 312 Holmes Rd | TRUE | Asphalt | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 394 | 17 | 5/23/2017 | Holland Dr/Aggie Rd | TRUE | Grass | Heavy | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 393 | 17 | 5/23/2017 | 3710 Holland Dr | TRUE | Grass | Heavy | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 395 | 17 | 5/23/2017 | 104 Lake Dr | TRUE | Asphalt/Grass | Light | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 422 | 17 | 5/23/2017 | 100 Lake Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 237 | 17 | 5/23/2017 | 3701 Blueridge Cir | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 236 | 17 | 5/23/2017 | 3701 Blueridge Cir | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 371 | 17 | 5/23/2017 | 3624 Blueridge Cir | TRUE | Grass | New Style | Brick | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 370 | 17 | 5/23/2017 | 3624 Blueridge Cir | TRUE | Grass | New Style | None | Sound | Cracked | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 238 | 17 | 5/23/2017 | 3625 Blueridge Cir | TRUE | Asphalt | Heavy | Brick | Sound | Cracked | Previous | TRUE | Precast | Sound | Leaking Joints | Concrete |
| 5 | 359 | 18 | 5/3/2017 | 1008 Ransom Dr | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Leaking/Evidence of Leaking | Concrete |
| 5 | 217 | 17 | 5/15/2017 | 305 Leslie Ann | TRUE | Grass | Light | None | Sound | Sound | Previous | TRUE | Precast | Sound | Leaking/Evidence of Leaking | Clay |
| 5 | 1329 | 17 | 5/22/2017 | 3901 Aggie Rd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 1328 | 17 | 5/22/2017 | 3901 Aggie Rd | TRUE | Grass | New | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

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|-------------|-----------|------|--------------------|------------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|---------------------|-----------------------------|----------------|
| | | | | | | | Style | | | | | | | | | |
| 5 | 1327 | 17 | 5/22/2017 | 300 Lake Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 253 | 17 | 5/22/2017 | 302 Lake Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Brick | Sound | Sound | Concrete |
| 5 | 362 | 17 | 5/22/2017 | 3707 Catalina Cv | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 373 | 17 | 5/22/2017 | 3700 Catalina Cv | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Leaking Joints | Concrete |
| 5 | 372 | 17 | 5/22/2017 | Catalina Cv/Bowling Ln | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 363 | 17 | 5/22/2017 | 300 Bowling Ln | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 380 | 17 | 5/22/2017 | 300 Bowling Ln | TRUE | Asphalt | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 381 | 17 | 5/22/2017 | 3801 Victoria Ln | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 361 | 17 | 5/19/2017 | Aggie Rd/Bowling Ln | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 252 | 17 | 5/19/2017 | 3708 Aggie Rd | TRUE | Asphalt | Light | Metal | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 251 | 17 | 5/19/2017 | 3704 Aggie Rd | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 235 | 17 | 5/19/2017 | 3702 Aggie Rd | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 234 | 17 | 5/19/2017 | 3700 Aggie Rd | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Clay |
| 5 | 233 | 17 | 5/19/2017 | Marzee Ann Dr/Aggie Rd | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 232 | 17 | 5/19/2017 | 3604 Marzee Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Leaking/Evidence of Leaking | Clay |
| 5 | 231 | 17 | 5/19/2017 | 3600 Marzee Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 230 | 17 | 5/19/2017 | 3600 Marzee Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Leaking Joints | Concrete |
| 5 | 243 | 17 | 5/19/2017 | 316 Marzee Ann Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Clay |
| 5 | 244 | 17 | 5/19/2017 | 308 Marzee Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Clay |
| 5 | 245 | 17 | 5/18/2017 | 3609 Leslie Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 246 | 17 | 5/18/2017 | 3609 Leslie Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 248 A | 17 | 5/18/2017 | 404 Toni Ann Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 248 | 17 | 5/18/2017 | 404 Toni Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 247 | 17 | 5/18/2017 | 320 Toni Ann Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 249 | 17 | 5/18/2017 | 316 Toni Ann Dr | TRUE | Concrete | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Clay |
| 5 | 250 | 17 | 5/18/2017 | 304 Toni Ann Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Clay |
| 5 | 229 | 17 | 5/18/2017 | 305 Toni Ann Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 228 | 17 | 5/18/2017 | Marzee Ann Dr/Toni Ann Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 227 | 17 | 5/18/2017 | Marzee Ann Dr/Barbara Ann Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 226 | 17 | 5/18/2017 | 3530 Barbara Ann Dr | TRUE | Grass | Light | Brick | Sound | Cracked | None | TRUE | Precast | Sound | Leaking/Evidence of Leaking | co |
| 5 | 224 | 17 | 5/18/2017 | 300 Leslie Ann Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 225 | 17 | 5/18/2017 | 318 Leslie Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 223 | 17 | 5/18/2017 | 318 Leslie Ann Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Clay |

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|-------------|-----------|------|--------------------|-----------------------|-----------------|------------------|-----------|-----------------|----------------|--------------|-----------------------|------------------------|----------------------|------------------------------|-----------------------------|----------------|
| 5 | 222 | 17 | 5/18/2017 | 318 Leslie Ann Dr | TRUE | Concrete | Light | None | Sound | Sound | Previous | TRUE | Precast | Sound | Sound | Clay |
| 5 | 239 | 17 | 5/18/2017 | 3520 Leslie Ann Dr | TRUE | Grass | New Style | None | Sound | Deteriorated | Previous | TRUE | Precast | Sound | Cracked | Concrete |
| 5 | 240 | 17 | 5/18/2017 | 3524 Leslie Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | Previous | TRUE | Precast | Pipe Penetrations Leaking | Sound | Concrete |
| 5 | 241 | 17 | 5/18/2017 | 3600 Leslie Ann Dr | TRUE | Concrete | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 592 | 17 | 5/24/2017 | 109 Cater Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 212 | 17 | 5/24/2017 | 113 Cater Dr | TRUE | Concrete | Heavy | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Clay |
| 5 | 211 | 17 | 5/24/2017 | 205 Cater Dr | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Clay |
| 5 | 210 | 17 | 5/24/2017 | 3521 Bess Dr | TRUE | Grass | Heavy | Brick | Sound | Sound | None | TRUE | Precast | Sound | Leaking Joints | Concrete |
| 5 | 209 | 17 | 5/24/2017 | 3517 Bess Dr | TRUE | Chat/Gravel | Heavy | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 206 | 17 | 5/24/2017 | 206 N. Hunter Ln | TRUE | Grass | New Style | Metal | Sound | Sound | None | TRUE | Precast | Pipe Penetrations Leaking | Sound | Concrete |
| 5 | 208 | 17 | 5/24/2017 | 106 N. Hunter Ln | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 186 | 17 | 5/24/2017 | 104 N. Hunter Ln | TRUE | Grass | New Style | Brick | Sound | Cracked | None | TRUE | Precast | Sound | Leaking/Evidence of Leaking | Concrete |
| 5 | 181 | 17 | 5/24/2017 | Aggie Rd/N. Hunter Ln | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 185 | 17 | 5/24/2017 | Aggie Rd/N. Hunter LN | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 433 | 17 | 5/24/2017 | 3509 Stella Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 184 | 17 | 5/24/2017 | 201 S Hunter Ln | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Brick | Sound | Sound | Concrete |
| 5 | 183 | 17 | 5/24/2017 | 111 S. Hunter Ln | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 182 | 17 | 5/24/2017 | 106 S. Hunter Ln | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 5 | 594 | 17 | 5/31/2017 | 3609 Alabama Rd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 595 | 17 | 5/31/2017 | 3605 Alabama Rd | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 593 | 17 | 5/31/2017 | 106 Cater Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 213 | 17 | 5/31/2017 | 107 Cater Dr | TRUE | Concrete/Grass | Heavy | Brick | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 1 | 585 | 17 | 6/1/2017 | 3816 Hill Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Plastic |
| 1 | 586 | 17 | 6/1/2017 | 3901 Hill Dr | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 1 | 583 | 17 | 6/1/2017 | 3906 Hill Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 1 | 584 | 17 | 6/1/2017 | 3905 Hill Dr | TRUE | Asphalt | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 1 | 576 | 17 | 6/1/2017 | 3909 Hill Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 1 | 582 | 17 | 6/1/2017 | 801 Hill Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |

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|-------------|-----------|------|--------------------|-------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|---------------------|----------------|----------------|
| 1 | 575 | 17 | 6/1/2017 | Airport Rd/Hill Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 1 | 572 | 17 | 6/1/2017 | 3909 Airport Rd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 1 | 571 | 17 | 6/1/2017 | 709 Airport Rd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 1 | 571A | 17 | 6/1/2017 | 607 Airport Rd | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 432 | 17 | 6/1/2017 | 3509 S. Hunter Ln | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 204 | 17 | 6/1/2017 | 404 University DR | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Precast | Sound | Leaking Joints | Concrete |
| 5 | 193 | 17 | 6/1/2017 | 209 University Dr | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Sound | Sound | Clay |
| 5 | 205 | 17 | 6/1/2017 | 207 N. Hunter Ln | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 598 | 17 | 6/1/2017 | 3707 Alabama Rd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 597 | 17 | 6/1/2017 | 3625 Alabama Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 596 | 17 | 6/1/2017 | 3604 Alabama Rd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 273 | 17 | 6/5/2017 | Despain CV/Sharon Dr | TRUE | Asphalt | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 274 | 17 | 6/5/2017 | 1211 Despain Cv | TRUE | Grass | Light | Concrete | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 275 | 17 | 6/5/2017 | 1222 Despain Cv | TRUE | Concrete | New Style | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 629B | 17 | 6/5/2017 | 3501 Burdyslaw Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 1 | 587 | 17 | 6/5/2017 | 3814 Hill Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 1 | 330 | 17 | 6/5/2017 | Sunset Dr/Airport Rd | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Clay |
| 1 | 331 | 17 | 6/5/2017 | 3905 Sunset Dr | TRUE | Concrete | New Style | Concrete | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 332 | 17 | 6/5/2017 | 3817 Sunset Dr | TRUE | Grass | Light | Concrete | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 333 | 17 | 6/5/2017 | 3801 Sunset Dr | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 328 | 17 | 6/5/2017 | 3801 Burdyslaw Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 329 | 17 | 6/5/2017 | 3801 Burdyslaw Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 327 | 17 | 6/5/2017 | 3808 Burdyslaw Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 326 | 17 | 6/5/2017 | 3904 Burdyslaw Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 325 | 17 | 6/5/2017 | Burdyslaw Dr/Airport Rd | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 286 | 17 | 6/5/2017 | 1101 Burdyslaw Dr | TRUE | Asphalt | Light | Brick | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 285 | 17 | 6/5/2017 | Vickie Dr/Airport Rd | TRUE | Asphalt | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 284 | 17 | 6/5/2017 | 3900 Vickie Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |

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|-------------|-----------|------|--------------------|--------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|------------------------------|--|----------------|
| 1 | 283 | 17 | 6/5/2017 | 3806 Vickie Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 296 | 17 | 6/5/2017 | 3805 Hilltop Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 289 | 17 | 6/5/2017 | 3805 Hilltop Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 288 | 17 | 6/5/2017 | 3901 Hilltop Dr | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 1 | 287 | 17 | 6/5/2017 | Hilltop Dr/Airport Rd | TRUE | Asphalt | Light | Metal | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 323 | 17 | 6/5/2017 | 3719 Burdyshaw Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 322 | 17 | 6/5/2017 | 3713 Burdyshaw Dr | TRUE | Concrete | New Style | Metal | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 324 | 17 | 6/5/2017 | 3713 Burdyshaw Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 5 | 321 | 17 | 6/5/2017 | 3707 Burdyshaw Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | TRUE | Precast | Pipe Penetrations Leaking | Sound | Concrete |
| 5 | 320 | 17 | 6/5/2017 | 3619 Burdyshaw Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 319 | 17 | 6/5/2017 | Toni Ann Dr/Burdyshaw Dr | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Precast | Pipe Penetrations Leaking | Leaking/Evidence of Leaking | Concrete |
| 5 | 628 A | 17 | 6/5/2017 | 3509 Burdyshaw Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 279 | 17 | 6/6/2017 | 1224 Sharon Dr | TRUE | Grass | Light | Concrete | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Roots | Concrete |
| 5 | 278 | 17 | 6/6/2017 | 1224 Sharon Dr | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 277 | 17 | 6/6/2017 | 1212 Sharon Dr | TRUE | Grass | Light | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Pipe Penetrations Leaking | Concrete |
| 5 | 276 | 17 | 6/6/2017 | 1200 Sharon Dr | TRUE | Grass | Light | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 282 | 17 | 6/6/2017 | 3721 Vickie Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 281 | 17 | 6/6/2017 | 3705 Vickie Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 272 | 17 | 6/6/2017 | 3600 Sharon Dr | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 271 | 17 | 6/6/2017 | 3600 Sharon Dr | TRUE | Grass | Light | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 261 | 17 | 6/6/2017 | 3600 Sharon Dr | TRUE | Grass | Light | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Roots | Concrete |
| 5 | 262 | 17 | 6/6/2017 | Jewell Dr/Toni Ann Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 263 | 17 | 6/6/2017 | 1112 Jewell Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 264 | 17 | 6/6/2017 | 3507 Oden St | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 265 | 17 | 6/6/2017 | 3501 Oden St | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 266 | 17 | 6/6/2017 | 1112 Jewell Dr | TRUE | Grass | Light | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Roots/Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 5 | 267 | 17 | 6/6/2017 | 1204 Jewell Dr | TRUE | Concrete | Light | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 268 | 17 | 6/6/2017 | 1206 Jewell Dr | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 334 | 17 | 6/6/2017 | Jewell Dr/Johnson Ave | TRUE | Chat/Gravel | New Style | Concrete | Sound | Offset | None | TRUE | Precast | Sound | Sound | Concrete |

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|-------------|-----------|------|--------------------|-------------------------|-----------------|------------------|-----------|-----------------|----------------|--------------|-----------------------|------------------------|----------------------|------------------------------|---|----------------|
| 5 | 608 | 17 | 6/6/2017 | 3513 E Johnson Ave | TRUE | Grass | Light | Metal | Sound | Sound | None | FALSE | Precast | Sound | Leaking Joints/Evidence of Leaking | Concrete |
| 5 | 278A | 17 | 6/6/2017 | 3513 E Johnson Ave | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 270 | 17 | 6/6/2017 | 3299 E Johnson Ave | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Roots/Leaking/Evidence of Leaking/Pipe Penetrations Leaking | Concrete |
| 5 | 269 | 17 | 6/6/2017 | 3303 E Johnson Ave | TRUE | Chat/Gravel | New Style | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 609B | 17 | 6/6/2017 | 3515 E Johnson Ave | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 609 | 17 | 6/6/2017 | 3505 E Johnson Ave | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 577 | 17 | 6/6/2017 | 4116 Stephanie Ln | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 573 | 17 | 6/6/2017 | Airport Rd/Stephanie Ln | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Plastic |
| 4 | 80 | 32 | 6/6/2017 | 3212 E Nettleton Ave | TRUE | Concrete | New Style | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 4 | 81 | 32 | 6/6/2017 | Falls St/Nettleton Ave | TRUE | Concrete | Light | Concrete | Sound | Sound | Previous | FALSE | Poured In Place | Sound | Sound | Clay |
| 4 | 82 | 32 | 6/6/2017 | 1307 Falls St | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 83 | 32 | 6/6/2017 | 1208 Falls St | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 4 | 353 | 32 | 6/6/2017 | 1200 Falls St | TRUE | Asphalt | Light | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 4 | 84 | 32 | 6/6/2017 | Falls St/Van Ave | TRUE | Asphalt | Heavy | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 4 | 85 | 32 | 6/6/2017 | 1117 Falls St | TRUE | Asphalt | Heavy | Metal | Sound | Deteriorated | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 350 | 32 | 6/6/2017 | 1324 Red Wolf Blvd | TRUE | Concrete | Light | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 351 | 32 | 6/6/2017 | 1320 Red Wolf Blvd | TRUE | Concrete | New Style | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 352 | 32 | 6/6/2017 | 1320 Red Wolf Blvd | TRUE | Concrete | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 86 | 32 | 6/7/2017 | 1328 Red Wolf Blvd | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 4 | 88 | 32 | 6/7/2017 | 1341 Red Wolf Blvd | TRUE | Concrete | Light | None | Sound | Sound | Previous | FALSE | Poured In Place | Sound | Sound | Concrete |
| 4 | 354 | 32 | 6/7/2017 | 1341 Red Wolf Blvd | TRUE | Grass | New Style | Metal | Sound | Sound | Previous | FALSE | Precast | Sound | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 4 | 355 | 32 | 6/7/2017 | 1341 Red Wolf Blvd | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 356 | 32 | 6/7/2017 | 1341 Red Wolf Blvd | TRUE | Grass | New | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |

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|-------------|-----------|------|--------------------|--------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|--|-------------------------------------|----------------|
| | | | | | | | Style | | | | | | | | | |
| 4 | 357 | 32 | 6/7/2017 | 1341 Red Wolf Blvd | TRUE | Mulch | New Style | Concrete | Sound | Offset | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 358 | 32 | 6/7/2017 | 1323 Red Wolf Blvd | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 89 | 32 | 6/7/2017 | Nettleton Ave/Pardew St | TRUE | Asphalt | Light | Brick | Sound | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 90 | 32 | 6/7/2017 | 1319 Pardew St | TRUE | Asphalt | Heavy | Concrete | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 93 | 32 | 6/7/2017 | Stallings Ln/Pardew St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 4 | 92 | 32 | 6/7/2017 | 1309 Pardew St | TRUE | Asphalt | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 4 | 91 | 32 | 6/7/2017 | 1312 Pardew St | TRUE | Asphalt | Heavy | Concrete | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 94 | 32 | 6/7/2017 | 2010 Nettleton Ave | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Leaking Joints | Clay |
| 4 | 95 | 32 | 6/7/2017 | Nettleton Ave/Oakdale St | TRUE | Asphalt | Light | None | Broken | Sound | Previous | FALSE | Poured In Place | Sound | Cracked/Leaking/Evidence of Leaking | Concrete |
| 4 | 96 | 32 | 6/7/2017 | Oakdale St/Noble Dr | TRUE | Concrete | New Style | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 4 | 100 | 32 | 6/7/2017 | Oakdale St/Primrose St | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 4 | 101 | 32 | 6/7/2017 | 1311 Oakdale St | TRUE | Asphalt | New Style | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 4 | 102 | 32 | 6/7/2017 | Oakdale St/Stallings Ln | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench/Pipe Penetrations Leaking | Sound | Clay |
| 4 | 105 | 32 | 6/7/2017 | 1200 Glendale St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Cracked | Clay |
| 4 | 104 | 32 | 6/7/2017 | 1206 Glendale St | TRUE | Concrete | Heavy | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 4 | 103 | 32 | 6/7/2017 | Glendale St/Primrose St | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 4 | 106 | 32 | 6/7/2017 | Primrose St/Dana St | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 4 | 107 | 32 | 6/7/2017 | 1208 Dana St | TRUE | Asphalt | Heavy | Concrete | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 300 | 32 | 6/7/2017 | 2612 Stallings Ln | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Leaking Joints | Concrete |
| 4 | 299 | 32 | 6/7/2017 | 2610 Stallings Ln | TRUE | Concrete | New Style | Brick | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 108 | 32 | 6/7/2017 | 2604 Stallings Ln | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|-------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|--|--|----------------|
| 4 | 109 | 32 | 6/7/2017 | Stallings Ln/Markle Dr | TRUE | Asphalt | Heavy | Concrete | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 114 | 32 | 6/7/2017 | Stallings Ln/Tony Dr | TRUE | Asphalt | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench/Deteriorated Bench/Missing/Invert Missing | Sound | Concrete |
| 4 | 113 | 32 | 6/7/2017 | 1206 Tony Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 112 | 32 | 6/7/2017 | Tony Dr/Primrose St | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 4 | 111 | 32 | 6/7/2017 | 2617 Primrose St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 117 | 32 | 6/7/2017 | Tony Dr/Noble Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 97 | 32 | 6/7/2017 | 2713 Noble Dr | TRUE | Asphalt | Heavy | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 4 | 98 | 32 | 6/7/2017 | 2707 Noble Dr | TRUE | Asphalt | Heavy | None | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 99 | 32 | 6/7/2017 | 2608 Noble Dr | TRUE | Asphalt | Light | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 121 | 32 | 6/7/2017 | 2724 Nettleton Ave | TRUE | Grass | Light | None | Sound | Sound | None | TRUE | Poured In Place | Pipe Penetrations Leaking | Leaking/Evidence of Leaking | Clay |
| 4 | 120 | 32 | 6/7/2017 | 2704 Nettleton Ave | TRUE | Asphalt | New Style | Concrete | Sound | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench/Invert Missing | Leaking/Evidence of Leaking | Concrete |
| 4 | 119 | 32 | 6/7/2017 | 2608 E Nettleton Ave | TRUE | Asphalt | Heavy | None | Sound | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 4 | 118 | 32 | 6/7/2017 | E Nettleton Ave/Tony Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench | Cracked/Leaking/Evidence of Leaking | Clay |
| 4 | 135 A | 32 | 6/7/2017 | 2506 E Nettleton Ave | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Pipe Penetrations Leaking | Sound | Clay |
| 4 | 135 | 32 | 6/7/2017 | 2605 E Nettleton Ave | TRUE | Grass | Heavy | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Deteriorated/Leaking/Evidence of Leaking | Concrete |
| 4 | 372 | 32 | 6/8/2017 | 2400 E Nettleton Ave | TRUE | Concrete | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Cracked | Clay |
| 4 | no # | 32 | 6/8/2017 | 2311 E Nettleton Ave | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Cracked | Concrete |
| 4 | 138 | 32 | 6/8/2017 | 2305 E Nettleton Ave | TRUE | Concrete | Heavy | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Leaking/Evidence of Leaking | Concrete |
| 4 | 139 | 32 | 6/8/2017 | 1316 Stone St | TRUE | Concrete | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 140 | 32 | 6/8/2017 | 1220 Stone St | TRUE | Concrete | Heavy | Brick | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Leaking Joints | Concrete |

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|-------------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|--|--|----------------|
| 4 | 267 | 32 | 6/8/2017 | 1212 Stone St | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Material Deposition on Bench/Pipe Penetrations Leaking | Leaking/Evidence of Leaking | Concrete |
| 4 | 141 | 32 | 6/8/2017 | 1216 Caraway Rd | TRUE | Asphalt | Heavy | None | Broken | Sound | Previous | TRUE | Brick | Material Deposition on Bench/Pipe Penetrations Leaking | Leaking/Evidence of Leaking | Concrete |
| 6 | 521 | 32 | 6/8/2017 | 906 Caraway Rd | TRUE | Grass | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 377 | 32 | 6/8/2017 | 1001 Caraway Rd | TRUE | Concrete | New Style | Metal | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench/Pipe Penetrations Leaking | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 4 | 376 | 32 | 6/8/2017 | 811 Caraway Rd | TRUE | Concrete | Heavy | Metal | Sound | Sound | Previous | FALSE | Brick | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 4 | 378 | 32 | 6/8/2017 | 1101 Caraway Rd | TRUE | Concrete | Light | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench/Deteriorated Bench/Missing/Invert Flow Issues | Sound | Clay |
| 4 | 142 | 32 | 6/8/2017 | 1205 Caraway Rd | TRUE | Grass | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench/Deteriorated Bench/Missing | Leaking/Evidence of Leaking | Brick |
| 4 | 143 | 32 | 6/8/2017 | 1235 Caraway Rd | TRUE | Grass | Heavy | Brick | Sound | Sound | None | TRUE | Poured In Place | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 145 | 32 | 6/8/2017 | 1239 Caraway Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 258 | 32 | 6/8/2017 | Oak Meadow Blvd/Nettleton Ave | TRUE | Grass | Light | None | Sound | Cracked | None | FALSE | Precast | Sound | Leaking/Evidence of Leaking | Concrete |
| 4 | 259 | 32 | 6/8/2017 | 1228 Oak Meadow Blvd | TRUE | Grass | Light | Metal | Sound | Sound | None | TRUE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 260 | 32 | 6/8/2017 | Oak Meadow Blvd/Oak Meadow Cv | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Roots | Concrete |
| 4 | 263 | 32 | 6/8/2017 | 1102 Oak Meadow Blvd | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 264 | 32 | 6/8/2017 | 1105 Oak Meadow Blvd | TRUE | Grass | Light | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 266 | 32 | 6/8/2017 | 1107 Oak Meadow Blvd | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Pipe Penetrations Leaking | Sound | Concrete |
| 4 | 319 | 32 | 6/8/2017 | Nettleton Ave/Oak Meadow Blvd | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|---------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|---|--|----------------|
| 4 | 257 | 32 | 6/8/2017 | Nettleton Ave/Thrush Rd | TRUE | Grass | Light | Brick | Broken | Sound | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Leaking/Evidence of Leaking | Concrete |
| 4 | 181 | 32 | 6/8/2017 | Nettleton Ave/Thrush Rd | TRUE | Asphalt | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Deteriorated Bench/Missing | Leaking/Evidence of Leaking | Concrete |
| 4 | 182 | 32 | 6/8/2017 | Thrush Rd/Lark Dr | TRUE | Asphalt | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench/Deteriorated Bench/Missing | Sound | Clay |
| 4 | 183 | 32 | 6/8/2017 | 1203 Thrush Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 4 | 184 | 32 | 6/8/2017 | 1109 Thrush Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 4 | 185 | 32 | 6/8/2017 | Starling Dr/Thrush Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Deteriorated Bench/Missing | Sound | Clay |
| 4 | 324 | 32 | 6/8/2017 | Lot north of 1102 Dove Rd | FALSE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Sound | Roots | Concrete |
| 4 | 323 | 32 | 6/8/2017 | 1106 Dove Rd | TRUE | Grass | New Style | Metal | Sound | Offset | None | FALSE | Precast | Sound | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 4 | 322 | 32 | 6/8/2017 | 1202 Dove Rd | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Invert Flow Issues | Leaking Joints | Concrete |
| 4 | 321 | 32 | 6/8/2017 | 1206 Dove Rd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 4 | 320 | 32 | 6/8/2017 | 1909 Lark Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 187 | 32 | 6/8/2017 | 1703 Lark Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench/Invert Missing | Sound | Clay |
| 4 | 188 | 32 | 6/8/2017 | Lark Dr/Cardinal Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 189 | 32 | 6/8/2017 | 1207 Lark Dr | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 190 | 32 | 6/9/2017 | 1106 Cardinal Dr | TRUE | Asphalt | Light | Metal | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 191 | 32 | 6/9/2017 | Cardinal Rd/Starling Dr | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 198 | 32 | 6/9/2017 | 1100 Robin Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 4 | 197 | 32 | 6/9/2017 | 1110 Robin Rd | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 196 | 32 | 6/9/2017 | 1202 Robin Rd | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 195 | 32 | 6/9/2017 | Lark Dr/Robin Rd | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Sound | Sound | Clay |

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|----------------------------|-----------------|------------------|----------|-----------------|----------------|----------------------|-----------------------|------------------------|----------------------|---|--|----------------|
| 4 | no # | 32 | 6/9/2017 | 1304 Robin Rd | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Deteriorated Bench/Missing/Invert Missing | Leaking/Evidence of Leaking | Concrete |
| 4 | 193 | 32 | 6/9/2017 | Nettleton Ave/Robin Rd | TRUE | Asphalt | Light | Metal | Sound | Offset/Deteriorated | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 186 | 32 | 6/9/2017 | Nettleton Ave/Franklin St | TRUE | Grass | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Sound | Deteriorated | Concrete |
| 4 | 371 | 32 | 6/9/2017 | 1709 E Nettleton Ave | TRUE | Grass | Heavy | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Cracked | Concrete |
| 4 | 370 | 32 | 6/9/2017 | 1709 E Nettleton Ave | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 4 | 200 | 32 | 6/9/2017 | Nettleton Ave/Hillcrest Dr | TRUE | Grass | Light | Metal | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 201 | 32 | 6/9/2017 | 1507 E Nettleton Ave | TRUE | Grass | Light | Metal | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 199 | 32 | 6/9/2017 | 1629 E Nettleton Ave | TRUE | Asphalt | Light | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 4 | 202 | 32 | 6/9/2017 | 1400 Hillcrest Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Leaking/Evidence of Leaking | Clay |
| 4 | 203 | 32 | 6/9/2017 | 1402 Hillcrest Dr | TRUE | Concrete | Light | Concrete | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 204 | 32 | 6/9/2017 | 1406 Hillcrest Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Precast | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 205 | 32 | 6/9/2017 | 1500 Hillcrest Dr | TRUE | Grass | Light | Metal | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 4 | 217 | 32 | 6/9/2017 | 1502 Hillcrest Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Roots | Concrete |
| 4 | 218 | 32 | 6/9/2017 | 1506 Hillcrest Dr | TRUE | Grass | Light | Brick | Sound | Deteriorated/Cracked | Previous | FALSE | Precast | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 216 | 32 | 6/9/2017 | 1602 Hillcrest Dr | TRUE | Grass | Light | Brick | Broken | Sound | None | FALSE | Precast | Material Deposition on Bench/Pipe Penetrations Leaking | Sound | Concrete |
| 4 | 215 | 32 | 6/9/2017 | 1604 Hillcrest Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 4 | 214 | 32 | 6/12/2017 | 1608 Hillcrest Dr | TRUE | Concrete | Light | Brick | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 248 | 32 | 6/12/2017 | 1004 Wilkins Ave | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 247 | 32 | 6/12/2017 | 1100 Wilkins Ave | TRUE | Concrete | Light | Brick | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Deteriorated | Concrete |
| 4 | 244 | 32 | 6/12/2017 | Castle Dr/Wilkins Ave | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench/Deteriorated Bench/Missing | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

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|-------------|-----------|------|--------------------|--------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|--|-------------------------------------|----------------|
| 4 | 245 | 32 | 6/12/2017 | 1607 Castle Dr | TRUE | Concrete | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench/Deteriorated Bench/Missing | Sound | Clay |
| 4 | 246 | 32 | 6/12/2017 | 1600 Castle Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench/Deteriorated Bench/Missing/Invert Flow Issues | Sound | Clay |
| 4 | 243 | 32 | 6/12/2001 | 1621 Montez Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Cracked/Leaking/Evidence of Leaking | Clay |
| 4 | 241 | 32 | 6/12/2017 | Montez Dr/Wilkins Ave | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 242 | 32 | 6/12/2017 | 1601 Montez Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Cracked | Clay |
| 4 | 240 | 32 | 6/12/2017 | Wilkins Ave/Cooper Ln | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Cracked | Clay |
| 4 | 374 | 32 | 6/12/2017 | 1616 Cooper Ln | TRUE | Concrete | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 255 | 32 | 6/12/2017 | 1600 Cooper Ln | TRUE | Grass | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 253 | 32 | 6/12/2017 | 1608 Cooper Ln | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 4 | 239 | 32 | 6/12/2017 | 1620 Cooper Ln | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 4 | 238 | 32 | 6/12/2017 | 1503 Wilkins Ave | TRUE | Grass | Heavy | None | Broken | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 237 | 32 | 6/12/2017 | 1503 Wilkins Ave | TRUE | Chat/Gravel | New Style | Metal | Sound | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench | Cracked/Leaking/Evidence of Leaking | Clay |
| 4 | 236 | 32 | 6/12/2017 | 1607 Hillcrest Dr | TRUE | Concrete | New Style | Metal | Sound | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 219 | 32 | 6/12/2017 | Hillcrest Dr/Wilkins Ave | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 213 | 32 | 6/12/2017 | 1705 Wilkins Ave | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 210 | 32 | 6/12/2017 | 1600 Virginia Dr | TRUE | Asphalt | New Style | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 211 | 32 | 6/12/2017 | 1423 Virginia Dr | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 207 | 32 | 6/12/2017 | 1600 Garland Dr | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Pipe Penetrations Leaking | Sound | Clay |
| 4 | 208 | 32 | 6/12/2017 | 1501 Garland Dr | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Pipe Penetrations Leaking | Roots | Concrete |

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|--------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|---|--|----------------|
| 4 | 177 | 32 | 6/12/2017 | 1510 Franklin St | TRUE | Asphalt | Light | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 178 | 32 | 6/12/2017 | Franklin St/Garland Dr | TRUE | Asphalt | Light | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 179 | 32 | 6/12/2017 | 1406 Franklin St | TRUE | Asphalt | Light | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 160 | 32 | 6/12/2017 | 1523 Marketplace Dr | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 159 | 32 | 6/12/2017 | 2020 Wilkins Ave | TRUE | Asphalt | Light | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Cracked/Leaking Joints/Evidence of Leaking | Concrete |
| 4 | 161 | 32 | 6/12/2017 | 2020 Wilkins Ave | TRUE | Grass | Light | Brick | Sound | Sound | Previous | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 162 | 32 | 6/12/2017 | 1406 Marketplace Dr | TRUE | Grass | Light | Brick | Sound | Offset | Previous | FALSE | Precast | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 4 | 336 | 32 | 6/12/2017 | 1406 Marketplace Dr | TRUE | Grass | Light | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 4 | 337 | 32 | 6/12/2017 | 1406 Marketplace Dr | TRUE | Grass | Light | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 163 | 32 | 6/12/2017 | 1404 Marketplace Dr | TRUE | Concrete | Light | None | Broken | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 147 | 32 | 6/12/2017 | 1700 Caraway Rd | TRUE | Asphalt | New Style | Brick | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 4 | 146 | 32 | 6/12/2017 | 2410 Forrest Home Rd | TRUE | Asphalt | New Style | Brick | Sound | Sound | None | TRUE | Brick | Sound | Sound | Clay |
| 4 | 148 | 32 | 6/12/2017 | 1712 Caraway Rd | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 130 | 32 | 6/12/2017 | 1707 Stone St | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 4 | 131 | 32 | 6/12/2017 | 1610 Stone St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Sound | Sound | Clay |
| 4 | 132 | 32 | 6/12/2017 | 1404 Stone St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 133 | 32 | 6/12/2017 | 1404 Stone St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 228 | 32 | 6/14/2017 | McArthur Park/Kenesaw St | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Poured In Place | Invert Flow Issues | Sound | Concrete |
| 4 | 229 | 32 | 6/14/2017 | McArthur Park/Kenesaw St | TRUE | Asphalt | Heavy | Brick | Sound | Sound | None | TRUE | Brick | Deteriorated Bench/Missing | Sound | Concrete |
| 4 | 373 | 32 | 6/14/2017 | 1102 Shenandoah Ct | TRUE | Asphalt | Heavy | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 230 | 32 | 6/14/2017 | 1908 McArthur Park | TRUE | Concrete | New Style | Brick | Sound | Cracked | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 343 | 32 | 6/14/2017 | 1700 E. Highland Dr | TRUE | Concrete | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 4 | 342 | 32 | 6/14/2017 | 1700 E. Highland Dr | TRUE | Concrete | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|---------------------|-----------------|------------------|-----------|-----------------|----------------|-----------------------|-----------------------|------------------------|----------------------|---|---|----------------|
| 4 | 341 | 32 | 6/14/2017 | 1700 E. Highland Dr | TRUE | Grass | Light | Concrete | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 4 | 340 | 32 | 6/14/2017 | 1700 E. Highland Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 4 | 338 | 32 | 6/14/2017 | 1730 E. Highland Dr | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Pipe Penetrations Leaking | Concrete |
| 4 | 335 | 32 | 6/14/2017 | 1730 E. Highland Dr | TRUE | Grass | Light | Concrete | Sound | Sound | None | FALSE | Poured In Place | Invert Flow Issues | Sound | Concrete |
| 4 | 344 | 32 | 6/14/2017 | 1808 E. Highland Dr | TRUE | Concrete | Light | None | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 4 | 307 | 32 | 6/14/2017 | 1808 E. Highland Dr | TRUE | Grass | New Style | None | Sound | Deteriorated/ Cracked | None | FALSE | Poured In Place | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 4 | 175 | 32 | 6/14/2017 | 1840 E. Highland Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 173 | 32 | 6/14/2017 | 1907 Bernard St | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 4 | 250 | 32 | 6/14/2017 | 1608 Cooper Ln | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Leaking Joints/Leaking/ Evidence of Leaking | Concrete |
| 4 | 252 | 32 | 6/14/2017 | 1612 Cooper Ln | TRUE | Concrete | Heavy | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 249 | 32 | 6/14/2017 | 1507 Hillcrest Dr | TRUE | Grass | Heavy | None | Broken | Deteriorated/ Cracked | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 226 | 32 | 6/14/2017 | 1615 Wilkins Ave | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Cracked/Leaking/ Evidence of Leaking | Concrete |
| 4 | 227 | 32 | 6/14/2017 | 1615 Wilkins Ave | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench/Deteriorated Bench/Missing/ Invert Flow Issues | Cracked/Leaking/ Evidence of Leaking | Brick |
| 4 | 256 | 32 | 6/14/2017 | 1605 Montez Dr | TRUE | Concrete | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 231 | 32 | 6/14/2017 | 1308 E. Highland Dr | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Sound | Cracked | Concrete |
| 5 | 706 | 18 | 6/14/2017 | 500 N. Caraway Rd | TRUE | Grass | New Style | Concrete | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 705 | 18 | 6/14/2017 | 500 N. Caraway Rd | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 704 | 18 | 6/14/2017 | 500 N. Caraway Rd | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Pipe Penetrations Leaking | Roots | Concrete |
| 5 | 703 | 18 | 6/14/2017 | 500 N. Caraway Rd | TRUE | Grass | Heavy | Concrete | Sound | Sound | None | FALSE | Precast | Invert Flow Issues | Sound | Concrete |
| 5 | 702 | 18 | 6/18/2017 | 500 N. Caraway Rd | TRUE | Grass | Heavy | Concrete | Sound | Sound | None | FALSE | Precast | Invert Flow Issues | Sound | Concrete |
| 5 | 701 | 18 | 6/14/2017 | 500 N. Caraway Rd | TRUE | Grass | Heavy | Concrete | Sound | Cracked | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

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|-------------|-----------|------|--------------------|---------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|--|--|----------------|
| 5 | 700 | 18 | 6/14/2017 | 500 N. Caraway Rd | TRUE | Grass | Heavy | None | Sound | Sound | Previous | FALSE | Precast | Sound | Leaking/Evidence of Leaking | Concrete |
| 5 | 376 | 18 | 6/14/2017 | 804 N. Caraway Rd | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Clay |
| 5 | 358 | 18 | 6/14/2017 | 2003 Greensboro Rd | TRUE | Grass | New Style | Concrete | Sound | Offset | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 134 | 32 | 6/13/2017 | 1404 Stone St | TRUE | Asphalt | New Style | Brick | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 122 | 32 | 6/13/2017 | 1405 Bittle St | TRUE | Asphalt | Light | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 123 | 32 | 6/13/2001 | 1411 Bittle St | TRUE | Asphalt | Light | Brick | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 124 | 32 | 6/13/2017 | 1603 Bittle St | TRUE | Concrete | Light | Metal | Sound | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 294 | 32 | 6/13/2017 | 1603 Bittle St | TRUE | Concrete | Light | Metal | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 4 | 329 | 32 | 6/13/2017 | 1706 Bittle St | TRUE | Grass | Light | Concrete | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench/Pipe Penetrations Leaking | Roots | Concrete |
| 4 | 295 | 32 | 6/13/2017 | 2512 Forrest Home Rd | TRUE | Grass | Light | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 272 | 32 | 6/13/2017 | 2519 Forrest Home Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 4 | 94 C | 32 | 6/13/2017 | 1405 Larkwood Dr | TRUE | Concrete | Heavy | Brick | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench/Invert Missing | Sound | Concrete |
| 4 | 94 A | 32 | 6/13/2017 | 2775 Nettleton Ave | TRUE | Concrete | Heavy | Concrete | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 4 | 278 | 32 | 6/13/2017 | 2721 Nettleton Ave | TRUE | Grass | Heavy | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Pipe Penetrations Leaking | Sound | Concrete |
| 4 | 302 | 32 | 6/13/2017 | 1702 Ivy Green St | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 303 | 32 | 6/13/2017 | 1706 Ivy Green St | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Leaking/Evidence of Leaking | Concrete |
| 4 | 304 | 32 | 6/13/2017 | Ivy Green St/Ivy Point Cv | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 317 | 32 | 6/13/2017 | 1814 Ivy Point Cv | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 4 | 305 | 32 | 6/13/2017 | 1807 Greens Point Cv | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Roots/Leaking/Evidence of Leaking | Concrete |
| 4 | 318 | 32 | 6/13/2017 | 1803 Greens Point Cv | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Pipe Penetrations | Roots/Leaking/Evidence of Leaking | Concrete |

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|-----------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|---|--|----------------|
| | | | | | | | | | | | | | | Leaking | | |
| 4 | 316 | 32 | 6/13/2017 | 1801 Woods Point Cv | TRUE | Grass | New Style | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 4 | 315 | 32 | 6/13/2017 | 1805 Woods Point Cv | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 4 | 220 | 32 | 6/13/2017 | 1700 Hillcrest Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 344 | 32 | 6/13/2014 | 1700 Hazelwood Ct | TRUE | Asphalt | Light | Brick | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 4 | 330 | 32 | 6/13/2017 | Hillcrest Dr/Hazelwood Ct | TRUE | Asphalt | New Style | Concrete | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 4 | 221 | 32 | 6/13/2017 | 1804 Hillcrest Dr | TRUE | Asphalt | Heavy | Concrete | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 222 | 32 | 6/13/2017 | 1800 Hillcrest Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 4 | 345 | 32 | 6/13/2017 | 1702 Hazelwood Ct | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Invert Flow Issues | Sound | Concrete |
| 4 | 331 | 32 | 6/13/2017 | 1702 Hazelwood Ct | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 332 | 32 | 6/13/2017 | 1706 Hazelwood Ct | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 4 | 333 | 32 | 6/13/2017 | 1706 Hazelwood Ct | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 235 | 32 | 6/13/2017 | 1102 Laurelwood Ct | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | FALSE | Poured In Place | Sound | Sound | Concrete |
| 4 | 234 | 32 | 6/13/2017 | Laurelwood Ct/McArthur Park | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench/Deteriorated Bench/Missing | Sound | Concrete |
| 5 | 92 | 18 | 6/16/2017 | 2500 Johnson Ave | TRUE | Grass | New Style | None | Sound | Cracked | None | TRUE | Brick | Material Deposition on Bench | Cracked | Concrete |
| 5 | 91 | 18 | 6/16/2017 | 2424 Johnson Ave | TRUE | Grass | Light | Concrete | Broken | Sound | None | TRUE | Brick | Material Deposition on Bench | Cracked | Concrete |
| 5 | 90 | 18 | 6/16/2001 | 2400 Johnson Ave | TRUE | Grass | New Style | Concrete | Broken | Sound | None | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 89 | 18 | 6/16/2017 | 2304 Johnson Ave | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Cracked/Deteriorated | Concrete |
| 5 | 665 | 18 | 6/16/2017 | 2106 Johnson Av | TRUE | Concrete | New Style | Concrete | Sound | Offset | Previous | FALSE | Precast | Sound | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 5 | 86 | 18 | 6/16/2017 | Johnson Ave/Snyder St | TRUE | Asphalt | New Style | Metal | Sound | Sound | Previous | TRUE | Brick | Sound | Leaking Joints/Leaking/Evidence of Leaking | Concrete |

**2017 SSES Manhole
Inspection Report**

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|-------------|-----------|------|--------------------|----------------------------------|-----------------|------------------|-----------|-----------------|----------------|----------------|-----------------------|------------------------|----------------------|--|-----------------------------|----------------|
| 5 | 85 | 18 | 6/16/2017 | 2118 Johnson Ave | TRUE | Asphalt | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 5 | 84 | 18 | 6/16/2017 | Johnson Ave/Russell Dr | TRUE | Concrete | New Style | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 434 | 18 | 6/16/2017 | 1910 Johnson Ave | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 116 | 18 | 6/16/2017 | 309 Cedar Heights Cv | TRUE | Grass | Heavy | None | Sound | Offset/Cracked | Previous | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Cracked | Clay |
| 5 | 117 | 18 | 6/16/2017 | 319 Cedar Heights Cv | TRUE | Grass | Heavy | Brick | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Cracked | Clay |
| 5 | 114 | 18 | 6/16/2017 | 203 Russell Dr | TRUE | Asphalt | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Cracked/Deteriorated | Concrete |
| 5 | 83 | 18 | 6/16/2017 | Dean St | TRUE | Grass | New Style | Metal | Sound | Sound | Previous | TRUE | Brick | Sound | Sound | Concrete |
| 5 | 82 | 18 | 6/16/2017 | Dean St | TRUE | Grass | Heavy | Brick | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench/Deteriorated Bench/Missing | Cracked | Concrete |
| 5 | 81 | 18 | 6/16/2017 | Dean St | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 80 | 18 | 6/19/2017 | 113 Dean ST | TRUE | Asphalt | New Style | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Cracked | Concrete |
| 5 | 79 | 18 | 6/19/2017 | 113 Dean St | TRUE | Asphalt | Heavy | Brick | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 76 A | 18 | 6/19/2017 | 2108 Dean St | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 75 | 18 | 6/19/2017 | 2007 Aggie Rd | TRUE | Asphalt | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 76 | 18 | 6/19/2017 | 2007 Aggie Rd | TRUE | Asphalt | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 77 | 18 | 6/19/2017 | 2007 Aggie Rd | TRUE | Asphalt | Heavy | Brick | Sound | Cracked | Previous | TRUE | Brick | Material Deposition on Bench | Cracked | Concrete |
| 5 | 78 | 18 | 6/19/2017 | 2108 Aggie Rd | TRUE | Concrete | Light | Concrete | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 74 | 18 | 6/19/2017 | Aggie Rd/University West Loop | TRUE | Concrete | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 697 | 18 | 6/19/2017 | 319 University West Loop | TRUE | Asphalt | Light | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 71 | 18 | 6/19/2017 | 115 University West Loop | TRUE | Grass | Light | Brick | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 73 | 18 | 6/19/2017 | 115 University West Loop | TRUE | Grass | Heavy | Concrete | Sound | Sound | Previous | TRUE | Brick | Sound | Leaking/Evidence of Leaking | Concrete |
| 5 | 70 | 18 | 6/19/2017 | 115 University West Loop | TRUE | Grass | New Style | Metal | Sound | Sound | Previous | FALSE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 69 | 18 | 6/19/2017 | University West Loop/Marshall St | TRUE | Grass | New Style | Concrete | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

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|-------------|-----------|------|--------------------|--------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------------------|-----------------------|------------------------|----------------------|---|-------------------------------------|----------------|
| 5 | 68 | 18 | 6/19/2017 | Marshall St | TRUE | Grass | Heavy | Brick | Broken | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 67 | 18 | 6/19/2017 | 114 University West Loop | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Cracked | Concrete |
| 5 | 65 | 18 | 6/19/2017 | 114 University West Loop | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 65 A | 18 | 6/19/2017 | 114 University West Loop | TRUE | Grass | Heavy | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 65 B | 18 | 6/19/2017 | 114 University West Loop | TRUE | Concrete | Heavy | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 66 | 18 | 6/19/2017 | 108 University West Loop | TRUE | Concrete | Heavy | Concrete | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 66 A | 18 | 6/19/2017 | 108 University West Loop | TRUE | Concrete | Heavy | Brick | Sound | Sound | None | FALSE | | Sound | Sound | Concrete |
| 5 | no # | 18 | 6/19/2017 | 504 University West Loop | TRUE | Grass | Heavy | Metal | Sound | Cracked | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 61 | 18 | 6/19/2017 | 504 University West Loop | TRUE | Grass | New Style | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Cracked | Concrete |
| 5 | 64 | 18 | 6/19/2017 | 119 University West Loop | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Cracked/Leaking/Evidence of Leaking | Concrete |
| 5 | 30 | 18 | 6/19/2017 | Driver St | TRUE | Grass | Heavy | None | Sound | Deteriorated | Previous | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 42 | 18 | 6/19/2017 | Driver St | TRUE | Grass | Heavy | None | Sound | Deteriorated/ Cracked | Previous | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 43 | 18 | 6/19/2017 | Driver St | TRUE | Grass | New Style | Concrete | Sound | Deteriorated/ Cracked | Previous | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 31 | 18 | 6/20/2017 | Driver St | TRUE | Concrete | Heavy | Brick | Sound | Cracked | None | TRUE | Brick | Material Deposition on Bench | Cracked | Concrete |
| 5 | 32 | 18 | 6/20/2017 | 114 Driver St | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench/Invert Missing | Deteriorated | Concrete |
| 5 | 33 | 18 | 6/20/2017 | 108 Driver St | TRUE | Concrete | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 35 | 18 | 6/20/2017 | Driver St/Quapaw St | TRUE | Grass | New Style | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench/Deteriorated Bench/Missing | Deteriorated | Concrete |
| 5 | 53 | 18 | 6/20/2017 | Driver St/Quapaw St | TRUE | Grass | New Style | Metal | Sound | Offset | Previous | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 36 | 18 | 6/20/2017 | 2505 Aggie Rd | TRUE | Grass | Light | Concrete | Sound | Sound | Previous | FALSE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 35 A | 18 | 6/20/2017 | 104 Driver St | TRUE | Concrete | New Style | Metal | Sound | Offset | None | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 5 | 35 C | 18 | 6/20/2017 | 114 Driver St | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

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|-------------|-----------|------|--------------------|--------------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------------------|-----------------------|------------------------|-----------------------|---|--|----------------|
| 5 | 35 D | 18 | 6/20/2017 | 114 Driver St | TRUE | Concrete | Light | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Cracked | Concrete |
| 5 | 54 | 18 | 6/20/2017 | 2507 Quapaw St | TRUE | Asphalt | Heavy | None | Broken | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 55 | 18 | 6/20/2017 | 2511 Quapaw St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 34 | 18 | 6/20/2017 | 106 Driver St | TRUE | Asphalt | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench/Deteriorated Bench/Missing | Sound | Concrete |
| 5 | 50 | 18 | 6/20/2017 | Osage St/Driver ST | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 48 | 18 | 6/20/2017 | 114 Driver St | TRUE | Concrete | Heavy | Brick | Sound | Sound | None | FALSE | Poured In Place/Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 45 | 18 | 6/20/2017 | Driver St/Cherokee St | TRUE | Concrete | Heavy | Brick | Sound | Cracked | None | TRUE | Brick | Material Deposition on Bench | Deteriorated | Clay |
| 5 | 44 | 18 | 6/20/2017 | Driver St/University East Loop | TRUE | Grass | Heavy | Concrete | Sound | Cracked | None | TRUE | Brick | Material Deposition on Bench | Cracked/Deteriorated | Concrete |
| 5 | 29 | 18 | 6/20/2017 | University East Loop | TRUE | Concrete | Heavy | None | Sound | Offset | Previous | FALSE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 19 | 18 | 6/20/2017 | 501 University East Loop | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 5 | 18 | 18 | 6/20/2017 | Caddo St | TRUE | Grass | Light | Metal | Sound | Cracked | Previous | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 5 | 17 | 18 | 6/20/2017 | 2645 Iroquois St | TRUE | Chat/Gravel | Heavy | Brick | Sound | Cracked | Previous | FALSE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 5 | 16 | 18 | 6/20/2017 | 2713 Iroquois St | TRUE | Concrete | Heavy | Brick | Sound | Sound | Active | TRUE | Brick | Material Deposition on Bench | Deteriorated | Concrete |
| 5 | 16 A | 18 | 6/20/2017 | 2713 Iroquois St | TRUE | Concrete | New Style | None | Sound | Deteriorated/ Cracked | Previous | FALSE | Precast | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 128 | 18 | 6/20/2017 | 2713 Iroquois St | TRUE | Chat/Gravel | New Style | Concrete | Sound | Sound | Previous | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 128 A | 18 | 6/20/2017 | 2713 Pawnee St | TRUE | Chat/Gravel | New Style | Concrete | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Roots/Leaking/Evidence of Leaking | Concrete |
| 5 | 55 A | 18 | 6/20/2017 | 820 University East Loop | TRUE | Grass | Light | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Cracked/Deteriorated | Concrete |
| 5 | 687 | 18 | 6/19/2017 | 119 University West Loop | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 64 A ? | 18 | 6/19/2017 | 119 University West Loop | TRUE | Grass | Heavy | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 696 | 18 | 6/19/2017 | 319 University West Loop | TRUE | Asphalt | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 695 | 18 | 6/19/2017 | 319 University West Loop | TRUE | Grass | New Style | Concrete | Sound | Offset | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|--|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|---|--|----------------|
| 5 | 690 | 18 | 6/19/2017 | 2108 Aggie Rd | TRUE | Grass | Heavy | Brick | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Cracked | Clay |
| 5 | 688 | 18 | 6/19/2017 | 2105 Cooley Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 433 | 18 | 6/21/2017 | 1910 Johnson Ave | TRUE | Concrete | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 438 | 18 | 6/21/2017 | 1909 Word Cv | TRUE | Grass | New Style | Concrete | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 115 | 18 | 6/21/2017 | 1916 Word Cv | TRUE | Grass | Heavy | None | Broken/Cracked | Sound | None | TRUE | Brick | Material Deposition on Bench | Deteriorated | Concrete |
| 5 | 51 | 18 | 6/21/2017 | 2506 Osage St | TRUE | Concrete | Heavy | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Sound | Clay |
| 5 | 20 | 18 | 6/21/2017 | 501 University East Loop | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Sound | Clay |
| 5 | 138 | 18 | 6/21/2017 | University East Loop/Pawnee St | TRUE | Asphalt | Heavy | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 653 | 18 | 6/21/2017 | 2605 Cherokee St | TRUE | Grass | Light | Metal | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 654 | 18 | 6/21/2017 | 2611 Cherokee St | TRUE | Grass | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 655 | 18 | 6/21/2017 | 2617 Cherokee St | TRUE | Grass | Light | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 656 | 18 | 6/21/2017 | 2629 Cherokee St | TRUE | Grass | Light | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 657 | 18 | 6/21/2017 | Cherokee/Iroquois/Quapaw Roundabout | TRUE | Grass | Light | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 677 | 18 | 6/21/2017 | 2807 Quapaw St | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 676 | 18 | 6/21/2017 | 2807 Quapaw St | TRUE | Grass | New Style | Concrete | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 5 | 675 | 18 | 6/21/2017 | 2813 Quapaw St | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 674 | 18 | 6/21/2017 | 2813 Quapaw St | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 673 | 18 | 6/21/2017 | 2819 Quapaw St | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 672 | 18 | 6/21/2017 | 2825 Quapaw St | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 671 | 18 | 6/21/2017 | 2723 Iroquois St | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 62 A | 18 | 6/21/2017 | ASU Agricultural Building (Old Caraway Rd) | TRUE | Brick | New Style | Brick | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Cracked | Concrete |
| 5 | 63 | 18 | 6/21/2017 | ASU Lab Science Building | TRUE | Grass/Brick | Heavy | None | Sound | Sound | None | FALSE | Poured In | Sound | Sound | Clay |

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|------------------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|--|--|----------------|
| | | | | | | | | | | | | | Place | | | |
| 5 | 63 A | 18 | 6/21/2017 | ASU Fine Arts Building | TRUE | Grass/Brick | Light | Concrete | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 63 B | 18 | 6/21/2017 | ASU Fine Arts Building | TRUE | Concrete/Grass | Heavy | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 699 | 18 | 6/21/2017 | ASU Wilson Hall | TRUE | Dirt/Mulch | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 698 | 18 | 6/21/2017 | ASU Dean B Ellis Library | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Sound | Sound | Concrete |
| 5 | no # | 18 | 6/21/2017 | ASU Dean B Ellis Library | TRUE | Concrete | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 670 | 18 | 6/22/2017 | 2723 Iroquois St | TRUE | Grass | New Style | Metal | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Leaking Joints/Leaking/ Evidence of Leaking | Concrete |
| 5 | 689 | 18 | 6/22/2017 | 2717 Iroquois St | TRUE | Grass | New Style | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Leaking Joints/Leaking/ Evidence of Leaking | Concrete |
| 5 | 668 | 18 | 6/22/2017 | 2717 Iroquois St | TRUE | Grass | New Style | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 667 | 18 | 6/22/2017 | 2711 Iroquois St | TRUE | Grass | New Style | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 666 | 18 | 6/22/2017 | 2705 Iroquois St | TRUE | Grass | New Style | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 134 | 18 | 6/22/2017 | Pawnee St (ASU Childhood Services) | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 133 | 18 | 6/22/2017 | Iroquois St/Pawnee St | TRUE | Asphalt | Heavy | Brick | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Sound | Clay |
| 5 | 132 | 18 | 6/22/2017 | 2713 Pawnee St | TRUE | Asphalt | Heavy | None | Broken | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 131 | 18 | 6/22/2017 | Pawnee St | TRUE | Asphalt | Heavy | Brick | Sound | Sound | Previous | FALSE | Brick | Material Deposition on Bench | Deteriorated | Concrete |
| 5 | 130 | 18 | 6/22/2017 | 2713 Pawnee St | TRUE | Concrete | Light | Brick | Sound | Sound | Previous | FALSE | Brick | Material Deposition on Bench | Deteriorated | Clay |
| 5 | 129 | 18 | 6/22/2017 | ASU Maintenance Garage | TRUE | Chat/Gravel | New Style | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Deteriorated | Clay |
| 5 | 622 | 18 | 6/22/2017 | 125 Dean St | TRUE | Concrete | Light | None | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 623 | 18 | 6/22/2017 | 125 Dean St | TRUE | Concrete | Light | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 126 | 18 | 6/22/2017 | 2304 Shelton St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 629 | 18 | 6/22/2017 | Caraway Rd/Shelton ST | TRUE | Asphalt | New Style | Metal | Sound | Cracked | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |

**2017 SSES Manhole
Inspection Report**

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|-------------|-----------|------|--------------------|---------------------------|-----------------|------------------|-----------|-----------------|----------------|--------------|-----------------------|------------------------|----------------------|---|--|----------------|
| 5 | 629 A | 18 | 6/22/2017 | 121 Caraway Rd | TRUE | Concrete | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Lifting Hole/Leaking/ Evidence of Leaking/Pipe Penetrations Leaking | Concrete |
| 5 | 627 | 18 | 6/22/2017 | 121 Caraway Rd | TRUE | Concrete | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 5 | 651 | 18 | 6/22/2017 | 121 Caraway Rd | TRUE | Concrete | Heavy | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 681 | 18 | 6/22/2017 | 2311 University East Loop | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 680 | 18 | 6/22/2017 | 2311 University East Loop | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 679 | 18 | 6/22/2017 | 2311 University East Loop | TRUE | Concrete | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 678 | 18 | 6/22/2017 | 2311 University East Loop | TRUE | Concrete | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 60 | 18 | 6/22/2017 | 303 University East Loop | TRUE | Asphalt | Light | Brick | Sound | Sound | None | TRUE | Brick | Invert Flow Issues/Invert Missing | Sound | Concrete |
| 5 | 58 | 18 | 6/22/2017 | Danner Ave | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Sound | Sound | Clay |
| 5 | 59 | 18 | 6/22/2017 | Danner Ave | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 57 A | 18 | 6/22/2017 | Danner Ave | TRUE | Concrete | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Sound | Sound | Clay |
| 5 | 57 | 18 | 6/23/2017 | Danner Ave | TRUE | Grass | Heavy | Brick | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 5 | 57 B | 18 | 6/23/2017 | Danner Ave | TRUE | Asphalt | Light | None | Sound | Sound | Previous | FALSE | Poured In Place | Sound | Sound | Plastic |
| 5 | 57 C | 18 | 6/23/2017 | Danner Ave | TRUE | Grass | Light | Metal | Sound | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 38 E | 18 | 6/23/2017 | Danner Ave | TRUE | Asphalt | Light | None | Sound | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench | Sound | Plastic |
| 5 | 38 | 18 | 6/23/2017 | Aggie Rd/Driver ST | TRUE | Grass | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 37 | 18 | 6/23/2017 | 2505 Aggie Rd | TRUE | Concrete | New Style | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench/Deteriorated Bench/Missing | Cracked/Deteriorated /Leaking/Evidence of Leaking | Concrete |
| 5 | 39 | 18 | 6/23/2017 | 2307 Aggie Rd | TRUE | Concrete/Asphalt | Light | None | Broken | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 692 | 18 | 6/23/2017 | 2208 Aggie Rd | TRUE | Grass | Light | None | Sound | Deteriorated | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 38 F | 18 | 6/23/2017 | Danner Ave | TRUE | Concrete | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|---------------------------------------|-----------------|------------------|-----------|----------------------|----------------|--------------------------|-----------------------|------------------------|----------------------|---|--|----------------|
| 5 | 367 | 18 | 6/23/2017 | 106 University East Loop | TRUE | Grass | New Style | Metal/Brick/Concrete | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 379 | 18 | 6/23/2017 | 106 University East Loop | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 378 | 18 | 6/23/2017 | 104 University East Loop | TRUE | Concrete | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 366 | 18 | 6/23/2017 | 106 University East Loop | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 5 | 365 | 18 | 6/23/2017 | 201 Olympic Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 148 A | 18 | 6/23/2017 | 201 Olympic Dr | TRUE | Asphalt | Light | None | Sound | Offset | None | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 148 | 18 | 6/23/2017 | 201 Olympic Dr | TRUE | Grass | Light | Metal | Sound | Sound | None | TRUE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 148 B | 18 | 6/23/2017 | 102 University East Loop | TRUE | Grass | Light | None | Broken | Deteriorated/ Cracked | None | FALSE | Precast | Sound | Lifting Hole/Leaking/ Evidence of Leaking | Concrete |
| 5 | 154 | 18 | 6/23/2017 | Olympic Dr (Convocation Center Lot C) | TRUE | Asphalt | Heavy | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Leaking/Evidence of Leaking | Concrete |
| 5 | 153 | 18 | 6/23/2017 | Convocation Center | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 152 | 18 | 6/23/2017 | Convocation Center | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 5 | 163 | 18 | 6/23/2017 | 2720 Olympic Dr | TRUE | Grass | Light | None | Broken | Offset | None | FALSE | Precast | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 162 | 18 | 6/23/2017 | 2720 Olympic Dr | TRUE | Grass | Heavy | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 161 | 18 | 6/23/2017 | ASU Football Stadium/First Care | TRUE | Grass | Heavy | Brick | Sound | Deteriorated | None | FALSE | Precast | Material Deposition on Bench/Pipe Penetrations Leaking | Roots | Concrete |
| 5 | 160 | 18 | 6/23/2017 | Alumni Blvd/Red Wolf Blvd | TRUE | Grass | Heavy | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 164 | 18 | 6/23/2017 | Alumni Blvd/Olympic Dr | TRUE | Grass | Light | None | Sound | Deteriorated | None | FALSE | Precast | Material Deposition on Bench | Leaking/Evidence of Leaking | Clay |
| 5 | 82 B | 18 | 6/26/2017 | Dean St | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 82 A | 18 | 6/26/2017 | Dean St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 693 | 18 | 6/26/2017 | Dean St | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Deteriorated | Concrete |
| 5 | 691 | 18 | 6/26/2017 | 2108 Aggie Rd | TRUE | Grass | | None | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Leaking Joints | Clay |
| 5 | 386 | 18 | 6/26/2017 | Danner Ave | TRUE | Concrete | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Cracked/Deteriorated/ Leaking/Evidence of Leaking | Clay |

**2017 SSES Manhole
Inspection Report**

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|-------------|-----------|------|--------------------|--|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|---|----------------|----------------|
| 5 | 166 | 18 | 6/26/2017 | Alumni Blvd | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 167 | 18 | 6/26/2017 | Alumni Blvd | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 658 | 18 | 6/26/2017 | Alumni Blvd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 168 | 18 | 6/26/2017 | Alumni Blvd | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 659 | 18 | 6/26/2017 | Alumni Blvd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 660 | 18 | 6/26/2017 | 2626 U St | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 661 | 18 | 6/26/2017 | 2600 Alumni Blvd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 2 | 18 | 6/26/2017 | ASU Rugby Field | TRUE | Grass | New Style | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 140 | 18 | 6/26/2017 | Pawnee St | TRUE | Grass | Heavy | Brick | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 141 | 18 | 6/26/2017 | Pawnee St | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 142 | 18 | 6/26/2017 | Pawnee St | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 143 | 18 | 6/26/2017 | Aggie Rd/Red Wolf Blvd | TRUE | Grass | Heavy | None | Broken | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Deteriorated | Concrete |
| 5 | 144 | 18 | 6/26/2017 | Aggie Rd/Red Wolf Blvd | TRUE | Grass | Heavy | Brick | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 5 | 145 | 18 | 6/26/2017 | Aggie Rd/Red Wolf Blvd | TRUE | Grass | Heavy | None | Sound | Sound | Previous | FALSE | Precast | Sound | Sound | Clay |
| 5 | 146 | 18 | 6/26/2017 | ASU Baseball Field (south side) | TRUE | Grass | Light | Brick | Broken | Sound | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 5 | 147 | 18 | 6/26/2017 | ASU Baseball Field (southwest corner) | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Sound | Leaking Joints | Clay |
| 5 | 150 | 18 | 6/26/2017 | ASU Baseball Field (northeast side) | TRUE | Grass | Heavy | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 5 | 151 | 18 | 6/26/2017 | Red Wolf Blvd (Convocation Center sign) | TRUE | Grass | Heavy | Concrete | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 158 | 18 | 6/26/2017 | Red Wolf Blvd (40' south of Convocation Center sign) | TRUE | Grass | Heavy | Brick | Broken | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 5 | 159 | 18 | 6/26/2017 | 218 Olympic Dr | TRUE | Grass | Heavy | Brick | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Leaking Joints | Clay |
| 5 | 41 B | 18 | 6/28/2017 | Danner Ave | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 41 A | 18 | 6/28/2017 | Danner Ave | TRUE | Asphalt | Light | None | Broken | Sound | Previous | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|---|-----------------|------------------|-----------|-----------------|----------------|--------------|-----------------------|------------------------|----------------------|---|--|----------------|
| 5 | 40 B | 18 | 6/28/2017 | Danner Ave | TRUE | Asphalt | New Style | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 40 | 18 | 6/28/2017 | Danner Ave | TRUE | Asphalt | New Style | Metal | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Concrete |
| 5 | 38 G | 18 | 6/28/2017 | Banks St | TRUE | Concrete | New Style | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 38 H | 18 | 6/28/2017 | Banks St | TRUE | Asphalt | Heavy | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 712 | 18 | 6/28/2017 | Banks St | TRUE | Concrete | Light | Concrete | Sound | Deteriorated | None | TRUE | Brick | Sound | Sound | Concrete |
| 5 | 38 B | 18 | 6/28/2017 | 2410 Aggie Rd | TRUE | Asphalt | Light | Metal | Sound | Deteriorated | None | FALSE | Precast | Sound | Leaking Joints/Evidence of Leaking | Concrete |
| 5 | 38 A | 18 | 6/28/2017 | Aggie Rd | TRUE | Concrete | Light | Metal | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 40 A | 18 | 6/28/2017 | Lee Dr | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 23 | 18 | 6/28/2017 | University East Loop | TRUE | Asphalt | Heavy | Concrete | Broken | Sound | None | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Sound | Clay |
| 5 | 26 | 18 | 6/28/2017 | University East Loop | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 652 | 18 | 6/29/2017 | University East Loop/Cherokee St | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 27 | 18 | 6/29/2017 | University East Loop/Cherokee St | TRUE | Asphalt | New Style | Brick | Sound | Deteriorated | None | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Sound | Clay |
| 5 | 28 | 18 | 6/29/2017 | University East Loop/Cherokee St | TRUE | Asphalt | New Style | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 628 | 18 | 6/29/2017 | 120 Caraway Rd | TRUE | Concrete | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Concrete |
| 5 | 625 | 18 | 6/29/2017 | 120 Caraway Rd | TRUE | Grass | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench/Invert Flow Issues | Leaking/Evidence of Leaking | Concrete |
| 5 | 624 | 18 | 6/29/2017 | 120 Caraway Rd | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 626 | 18 | 6/29/2017 | 120 Caraway Rd | TRUE | Concrete | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Roots | Concrete |
| 5 | 650 | 18 | 6/29/2017 | Caraway Rd (ASU Parking Garage-East side) | TRUE | Grass | Light | Concrete | Sound | Offset | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 212 | 32 | 6/29/2017 | 1614 Wilkins Ave | TRUE | Asphalt | Heavy | None | Broken | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 209 | 32 | 6/29/2017 | Virginia Dr/Wilkins Ave | TRUE | Asphalt | Heavy | Concrete | Broken | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 311 | 32 | 6/29/2017 | 1710 Wilkins Ave | TRUE | Asphalt | Light | Concrete | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 4 | 206 | 32 | 6/29/2017 | Garland Dr/Wilkins Ave | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |

**2017 SSES Manhole
Inspection Report**

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|-------------|-----------|------|--------------------|----------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|---|-----------------------------|----------------|
| 4 | 301 | 32 | 6/29/2017 | Ivy Green/Wilkins Ave | TRUE | Asphalt | New Style | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Sound | Clay |
| 4 | 176 | 32 | 6/29/2017 | Franklin St/Wilkins Ave | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Sound | Sound | Clay |
| 4 | 166 | 32 | 6/29/2017 | Bernard St/Wilkins Ave | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 167 | 32 | 6/29/2017 | 1705 Bernard St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 168 | 32 | 6/29/2017 | 1803 Bernard St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 170 | 32 | 6/29/2017 | 1905 Bernard St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 171 | 32 | 6/29/2017 | 1907 Bernard St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 172 | 32 | 6/29/2017 | 1907 Bernard St | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Sound | Sound | Clay |
| 4 | 164 | 32 | 6/29/2017 | 2014 Wilkins Ave | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 158 | 32 | 6/29/2017 | Marketplace Dr/Wilkins Ave | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 157 | 32 | 6/29/2017 | 2020 Wilkins Ave | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 156 | 32 | 6/29/2017 | 2200 Wilkins Ave | TRUE | Asphalt | Light | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 129 | 32 | 6/30/2017 | Forrest Home Rd/Stone St | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 128 | 32 | 6/30/2017 | Forrest Home Rd/Stone St | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 121 | 32 | 6/30/2017 | 2511 Forrest Home Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 271 | 32 | 6/30/2017 | 2519 Forrest Home Rd | TRUE | Asphalt | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench/Invert Flow Issues | Leaking/Evidence of Leaking | Clay |
| 4 | 125 | 32 | 6/30/2017 | Bittle St/Forrest Home Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench/Deteriorated Bench/Missing | Sound | Clay |
| 4 | 328 | 32 | 6/30/2017 | 1702 Bittle St | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 4 | 150 | 32 | 6/30/2017 | 1608 Caraway Rd | TRUE | Asphalt | Heavy | Brick | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 4 | 151 | 32 | 6/30/2017 | 1520 Caraway Rd | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 151 A | 32 | 6/30/2017 | 1420 Caraway Rd | TRUE | Asphalt | Heavy | None | Broken | Cracked | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 6 | 520 | 32 | 6/30/2017 | Stallings Ln/Caraway Rd | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Sound | Clay |

**2017 SSES Manhole
Inspection Report**

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|-------------|-----------|------|--------------------|--|-----------------|------------------|-----------|-----------------|----------------|--------------|-----------------------|------------------------|----------------------|---|-----------------------------|----------------|
| 6 | 522 | 32 | 6/30/2017 | Stallings Ln/Caraway Rd | TRUE | Asphalt | Heavy | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench/Invert Flow Issues | Sound | Clay |
| 6 | 523 | 32 | 6/30/2017 | 1000 Stallings Ln | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 6 | 116 | 32 | 6/30/2017 | 2314 Stallings Ln | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 115 | 32 | 6/30/2017 | 2400 Stallings Ln | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | TRUE | Brick | Deteriorated Bench/Missing | Sound | Clay |
| 5 | 418 | 17 | 6/30/2017 | Aggie Rd/Stella Dr | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 417 | 17 | 6/30/2017 | Aggie Rd/Cater Dr | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 187 | 17 | 6/30/2017 | Aggie Rd/Cater Dr | TRUE | Asphalt | New Style | Brick | Sound | Deteriorated | None | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 5 | 431 | 17 | 6/30/2017 | 3500 Aggie Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench/Invert Flow Issues | Sound | Concrete |
| 4 | 155 | 32 | 6/30/2017 | Caraway Rd/Wilkins Ave/Forrest Home Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench/Deteriorated Bench/Missing | Sound | Clay |
| 4 | 154 | 32 | 6/30/2017 | Caraway Rd/Wilkins Ave/Forrest Home Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 4 | 149 | 32 | 6/30/2017 | Caraway Rd/Wilkins Ave/Forrest Home Rd | TRUE | Asphalt | New Style | Brick | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench/Deteriorated Bench/Missing | Leaking/Evidence of Leaking | Clay |
| 4 | 144 | 32 | 6/30/2017 | Nettleton Ave/Caraway Rd | TRUE | Asphalt | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 4 | 375 | 32 | 6/30/2017 | Matthews Ave/Caraway Rd | TRUE | Asphalt | New Style | Brick | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 62 | 18 | 7/3/2017 | 119 University East Loop | TRUE | Grass | Light | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 5 | 179 | 17 | 7/3/2017 | 3905 Aggie Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench/Invert Missing | Sound | Clay |
| 5 | 178 | 17 | 7/3/2017 | Aggie Rd/Longhorn Dr | TRUE | Asphalt | New Style | Brick | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 180 | 17 | 7/3/2017 | 3205 Aggie Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 88 | 18 | 7/3/2017 | Johnson Ave/Caraway Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | Previous | FALSE | Brick | Material Deposition on Bench | Sound | Clay |
| 5 | 177 | 17 | 7/3/2017 | Aggie Rd (Farmers Market) | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | FALSE | Poured In Place | Material Deposition on Bench | Sound | Clay |
| 5 | no # | 18 | 7/3/2017 | ASU Police Station | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

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|-------------|-----------|------|--------------------|---|-----------------|------------------|-----------|-----------------|----------------|--------------------------|-----------------------|------------------------|----------------------|------------------------------|-----------------------------|----------------|
| 1 | 299 | 17 | 3/1/2017 | Oak Hill Ln | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Deteriorated Bench/Missing | Deteriorated | Concrete |
| 5 | 419 | 17 | 3/1/2017 | Aggie Rd/Stella Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Deteriorated | Concrete |
| 4 | 145 | 32 | 6/8/2017 | 1239 S. Caraway Rd | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Leaking/Evidence of Leaking | Concrete |
| 5 | 149 | 18 | 6/26/2017 | ASU Baseball Field (East side close to Red Wolf Blvd) | TRUE | Grass | Heavy | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Clay |
| 4 | 94 B | 32 | 6/13/2017 | 1419 Larkwood Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 5 | 207 | 17 | 8/15/2017 | 200 N. Hunter Ln | FALSE | Concrete | Heavy | Brick | Sound | Sound | None | FALSE | Precast | Sound | Sound | Clay |
| 5 | 35 B | 18 | 8/15/2017 | 104 Driver | FALSE | Concrete | Heavy | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 169 | 18 | 8/16/2017 | Aggie Rd/Red Wolf Blvd | FALSE | Asphalt | Heavy | None | Sound | Sound | None | FALSE | Brick | Sound | Sound | Clay |
| 5 | 686 | 18 | 8/16/2017 | 114 University Loop West | FALSE | Concrete/Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 685 | 18 | 8/16/2017 | 114 University Loop West | FALSE | Mulch | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 265 | 32 | 8/16/2017 | 1101 Oak Meadow Blvd | FALSE | Concrete | New Style | None | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 684 | 18 | 8/16/2017 | 114 University Loop West | TRUE | Concrete | New Style | Concrete | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 262 | 32 | 8/16/2017 | 1102 Oak Meadow Blvd | TRUE | Grass | New Style | None | Sound | Sound | None | TRUE | Precast | Material Deposition on Bench | Sound | Concrete |
| 4 | 261 | 32 | 8/17/2017 | 2127 Oak Meadow Cv | FALSE | Concrete | New Style | None | Sound | Sound | Previous | TRUE | Precast | Sound | Sound | Concrete |
| 4 | 224 | 32 | 8/17/2017 | 1615 Wilkins Ave | FALSE | Grass | New Style | None | Sound | Sound | None | TRUE | Brick | Sound | Sound | Clay |
| 4 | 225 | 32 | 8/17/2017 | 1615 Wilkins Ave | FALSE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Sound | Sound | Concrete |
| 4 | 87 | 32 | 8/17/2017 | Red Wolf Blvd/Nettleton Ave | FALSE | Asphalt | New Style | None | Sound | Sound | None | FALSE | Brick | Sound | Sound | Concrete |
| 5 | 683 | 18 | 8/17/2017 | 114 University Loop West | FALSE | | | | Sound | Sound | | FALSE | | Sound | Sound | |
| 5 | 716 | 17 | 8/16/2017 | 202 Lake Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 715 | 17 | 8/16/2017 | 212 Lake Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 618 B | 17 | 8/16/2017 | Canera Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 171 | 17 | 8/16/2017 | Aggie Rd (south in field of petting zoo) | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Sound | Sound | Clay |
| 5 | 248 B | 17 | 8/16/2017 | Kitterman Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | no # | 17 | 8/16/2017 | 3509 Stella Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 377 | 18 | 8/15/2017 | University Loop East (across road from 910) | TRUE | Grass | Heavy | None | Sound | Offset/ Deteriorated/ | None | FALSE | Brick | Deteriorated Bench/Missing | Sound | |

**2017 SSES Manhole
Inspection Report**

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|-------------|---------------|------|--------------------|---|-----------------|------------------|-----------|-----------------|----------------|--------------|-----------------------|------------------------|----------------------|---------------------|----------------|----------------|
| | | | | | | | | | | Cracked | | | | | | |
| 5 | 727 | 18 | 8/15/2017 | 2506 Osage St | TRUE | Asphalt | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 714 | 18 | 8/15/2017 | 801 University East Loop (Bldg #1) | TRUE | Asphalt | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Clay |
| 5 | 105 | 18 | 8/15/2017 | 801 Sylvan Hill Dr | TRUE | Asphalt | Light | Brick | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 5 | 106 | 18 | 8/15/2017 | 807 Sylvan Hill Dr | TRUE | Asphalt | Heavy | None | Sound | Deteriorated | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 5 | 110 | 18 | 8/15/2017 | 1016 Sylvan Hill Dr | TRUE | Asphalt | Heavy | None | Sound | Deteriorated | None | TRUE | Brick | Sound | Sound | Clay |
| 4 | 174 | 32 | 8/17/2017 | 1840 E. Highland Dr | TRUE | Grass | New Style | Concrete | Sound | Sound | None | TRUE | Brick | Sound | Sound | Clay |
| 4 | 165 | 32 | 8/16/2017 | Wilkins Ave/Bernard St | TRUE | Chat/Gravel | Heavy | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 4 | 306 | 32 | 8/16/2017 | 1807 Greenspoint Cv | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 4 | 384 | 32 | 8/16/2017 | 1408 E. Highland Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 385 | 32 | 8/16/2017 | 1408 E. Highland Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 386 | 32 | 8/16/2017 | 1408 E. Highland Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 387 | 32 | 8/16/2017 | 1408 E. Highland Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 383 | 32 | 8/17/2017 | 1840 E. Highland Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 382 | 32 | 8/17/2017 | 1840 E. Highland Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 381 | 32 | 8/17/2017 | 1840 E. Highland Dr | TRUE | Concrete | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 4 | 169 | 32 | 8/18/2017 | 1901 Bernard St | FALSE | Asphalt | Heavy | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Clay |
| 4 | 153 | 32 | 8/18/2017 | 1402 S. Caraway Rd | FALSE | Asphalt | Heavy | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 217 A or 216? | 17 | 8/18/2017 | ASU Farm (n of Aggie rd between #5/215 & 5/217) | TRUE | Grass | Light | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Clay |
| 5 | 335 | 17 | 8/18/2017 | ASU Farm (n of Aggie Rd between #5/217 & 5/336) | TRUE | Grass | New Style | None | Sound | Sound | Previous | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 682 | 18 | 8/18/2017 | University Loop East | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 5 | 664 | 18 | 8/18/2017 | University Loop East | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 5 | 663 | 18 | 8/18/2017 | University Loop East | TRUE | Grass | New Style | Concrete | Sound | Sound | None | TRUE | Precast | Sound | Sound | Concrete |
| 5 | 662 | 18 | 8/18/2017 | University Loop East | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |

**2017 SSES Manhole
Inspection Report**

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|-------------|-----------|------|--------------------|-------------------|-----------------|------------------|-----------|-----------------|----------------|--------------------------|-----------------------|------------------------|----------------------|---------------------|----------------|----------------|
| 5 | 61 B | 18 | 8/18/2017 | 2713 Pawnee St | TRUE | Grass | New Style | None | Sound | Deteriorated/ Cracked | None | FALSE | Precast | Sound | Sound | Clay |
| 4 | 273 | 32 | 8/24/2017 | King St/Bittle St | TRUE | Grass | Heavy | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |

2016 SSES Manhole Inspection Report (Final 10%)

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|-------------|-----------|------|--------------------|----------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|------------------------------|-----------------------------|----------------|
| 7 | 78 | 7 | 6/8/2017 | 2317 Redbud Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Roots | Concrete |
| 8 | 5 | 25 | 6/12/2017 | 1617 Rich Rd | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 8 | 10 | 25 | 6/12/2017 | 2104 Rich Cv | TRUE | Grass | Heavy | None | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Sound | Concrete |
| 8 | 40 | 25 | 6/12/2017 | 2737 Paula Dr | TRUE | Grass | Heavy | None | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Sound | Clay |
| 8 | 67 | 25 | 6/12/2017 | 2706 Turtle Creek Rd | TRUE | Concrete | Heavy | None | Sound | Sound | None | FALSE | Brick | Sound | Leaking/Evidence of Leaking | Clay |
| 8 | 14 | 25 | 6/13/2017 | 2113 Rich Cv | TRUE | Grass | Heavy | None | Sound | Sound | Previous | FALSE | Brick | Material Deposition on Bench | Sound | Concrete |
| 8 | 15 | 25 | 6/13/2017 | 2109 Rich Cv | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 8 | 16 | 25 | 6/12/2017 | 2101 Rich Cv | TRUE | Grass | Heavy | None | Sound | Sound | Active | FALSE | Brick | Material Deposition on Bench | Roots | Concrete |
| 8 | 206 | 25 | 6/13/2017 | 1604 Rich Rd | TRUE | Grass | Heavy | None | Sound | Sound | Previous | FALSE | Brick | Material Deposition on Bench | Sound | Concrete |
| 8 | 207 | 25 | 6/13/2017 | 1613 Colonial Rd | TRUE | Grass | Heavy | None | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 8 | 532 | 24 | 6/13/2017 | 2807 Minx Ln | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 8 | 44 | 25 | 6/14/2017 | 1918 Paula Dr | TRUE | Grass | Heavy | None | Sound | Sound | Previous | FALSE | Brick | Material Deposition on Bench | Sound | Concrete |
| 8 | 45 | 25 | 6/14/2017 | 1926 Paula Dr | TRUE | Grass | Heavy | None | Sound | Sound | None | FALSE | Brick | Material Deposition on Bench | Sound | Concrete |
| 8 | 48 | 25 | 6/14/2017 | 2612 Covey Dr | TRUE | Grass | Light | Brick | Sound | Sound | None | FALSE | Precast | Sound | Sound | Clay |
| 8 | 550 | 25 | 6/14/2017 | 2200 Autumn Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 8 | 617 | 25 | 6/14/2017 | 2317 Autumn Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Roots | Concrete |
| 8 | 1039 | 25 | 6/14/2017 | 2102 Morningside Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Material Deposition on Bench | Roots | Concrete |
| 8 | 682 | 25 | 6/14/2017 | 2316 Morningside Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |

2016 SSES Manhole Inspection Report (Final 10%)

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|-------------|-----------|------|--------------------|-----------------------------|-----------------|------------------|-----------|-----------------|----------------|----------------|-----------------------|------------------------|----------------------|------------------------------|----------------|----------------|
| 8 | 455 | 25 | 6/15/2017 | 1700 Loberg Ln | TRUE | Grass | Heavy | None | Sound | Sound | Previous | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 8 | 574 | 24 | 6/15/2017 | 2804 Tower Park Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 8 | 133 | 24 | 6/15/2017 | 1808 Covey Dr | TRUE | Grass | Heavy | Brick | Sound | Offset/Cracked | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 8 | 732 | 25 | 6/15/2017 | 2001 Rosemond Ave | TRUE | Grass | New Style | None | Sound | Sound | Previous | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 8 | 1045 | 25 | 6/16/2017 | 2208 Alexander Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 8 | 1046 | 25 | 6/16/2017 | 2208 Alexander Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 8 | 734 | 25 | 6/16/2017 | 2013 Rosemond Ave | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 8 | 733 | 25 | 6/16/2017 | 2005 Rosemond Ave | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Lifting Hole | Concrete |
| 8 | 695 | 25 | 6/16/2017 | 2205 Parker Rd | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Roots | Concrete |
| 8 | 500 | 25 | 6/16/2017 | 2205 W Nettleton Ave | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 8 | 502 | 25 | 6/16/2017 | 2205 W Nettleton Ave | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Sound | Sound | Concrete |
| 8 | 388 | 25 | 6/19/2017 | 2208 Morningside Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Precast | Material Deposition on Bench | Sound | Concrete |
| 8 | 555 | 25 | 6/19/2017 | 2309 Morningside Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 8 | 598 | 25 | 6/19/2017 | 2813 Nottingham Way | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 8 | 603 | 25 | 6/20/2017 | 2111 Spring Hollow Dr | TRUE | Grass | New Style | None | Sound | Sound | None | FALSE | Poured In Place | Sound | Sound | Concrete |
| 8 | 115 | 24 | 6/20/2017 | 2112 Paula Dr | TRUE | Grass | New Style | Metal | Sound | Sound | None | TRUE | Brick | Material Deposition on Bench | Sound | Concrete |
| 7 | 310 | 26 | 12/6/2016 | 501 W HIGHLAND DR | TRUE | Grass | New Style | Metal | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 7 | 36 | 7 | 12/6/2016 | WOODSPRINGS RD/GREENWOOD ST | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 8 | 49 | 25 | 12/6/2016 | 1903 CATHARINE DR | TRUE | Grass | Light | Brick | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 216 | 25 | 12/5/2016 | 1604 SHADY GROVE RD | TRUE | Grass | Heavy | Brick | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 8 | 230 | 25 | 12/5/2016 | 1900 RIDGE RD | TRUE | Grass | Heavy | Brick | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 8 | 439 | 25 | 11/25/2016 | OVERHILL RD/WESTWOOD DR | TRUE | Asphalt | Heavy | None | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 7 | 35 | 7 | 11/23/2016 | 1209 WOODSPRINGS RD | TRUE | Grass | New Style | Concrete | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 7 | 46 | 7 | 11/23/2016 | 1609 LEAF CV | TRUE | Asphalt | Heavy | None | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 8 | 1 | 25 | 11/23/2016 | 1601 Woodsprings Rd | TRUE | Grass | New | None | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |

2016 SSES Manhole Inspection Report (Final 10%)

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|-------------|-----------|------|--------------------|---------------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|---------------------|----------------|----------------|
| | | | | | | | New Style | | | | | | | | | |
| 8 | 438 | 25 | 11/23/2016 | 1509 OVERHILL DR | TRUE | Asphalt | New Style | None | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 7 | 334 | 26 | 11/22/2016 | 2303 Circle Dr | TRUE | Asphalt | Heavy | Metal | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 8 | 225 | 25 | 11/22/2016 | 1605 SHADY GROVE RD | TRUE | Grass | Heavy | Brick | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 7 | 426 | 26 | 11/21/2016 | 1917 Edgewood St | TRUE | Grass | Light | Brick | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 7 | 221 | 7 | 11/18/2016 | 16 PLANTATION OAKS LN | TRUE | Grass | New Style | None | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 7 | 663 | 26 | 11/18/2016 | 2304 WOOD ST | TRUE | Grass | New Style | Concrete | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 7 | 664 | 26 | 11/18/2016 | 2310 WOOD ST | TRUE | Grass | New Style | None | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 7 | 342 | 26 | 11/17/2016 | 709 VALLEY DR | TRUE | Asphalt | New Style | Brick | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 7 | 365 | 26 | 11/17/2016 | 711 VALLEY DR | TRUE | Asphalt | New Style | Brick | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 7 | 366 | 26 | 11/17/2016 | 727 VALLEY DR | TRUE | Asphalt | Heavy | None | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 7 | 367 | 26 | 11/17/2016 | 735 VALLEY DR | TRUE | Asphalt | New Style | None | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 7 | 661 | 26 | 11/17/2016 | HUNTERS RUN CV | TRUE | Asphalt | New Style | Metal | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 7 | 662 | 26 | 11/17/2016 | 1205 HUNTERS RUN CV | TRUE | Grass | New Style | Brick | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 8 | 578 | 24 | 11/17/2016 | 2811 TOWER PARK DR | TRUE | Grass | New Style | None | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 8 | 120 | 24 | 11/14/2016 | 2912 CLEARWOOD CV | TRUE | Asphalt | Heavy | Brick | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 8 | 279 | 24 | 11/14/2016 | 1602 PEARTREE PL | TRUE | Grass | New Style | None | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 280 | 24 | 11/14/2016 | 1608 PEARTREE PL | TRUE | Concrete | New Style | Concrete | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 144 | 24 | 11/11/2016 | PINOAK PL/WOOD ST | TRUE | Grass | Light | None | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 169 | 24 | 11/11/2016 | 2303 SPRINGWOOD DR | TRUE | Grass | Light | None | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 413 | 24 | 11/10/2016 | 3021 QUAIL DR | TRUE | Grass | New Style | Concrete | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 8 | 414 | 24 | 11/10/2016 | 3025 QUAIL DR | TRUE | Grass | New Style | None | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 8 | 530 | 24 | 11/10/2016 | 3501 Southwest Drive | TRUE | Chat/Gravel | New Style | Metal | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 8 | 156 | 24 | 11/9/2016 | 3006 TURTLE CREEK | TRUE | Asphalt | Heavy | Brick | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 8 | 390 | 25 | 11/9/2016 | MORNINGSIDE DR/SPRING CREEK CIR | TRUE | Grass | New Style | None | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 308 | 25 | 11/8/2016 | 2022 CATHARINE DR | TRUE | Grass | New Style | None | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 380 | 24 | 11/8/2016 | 2609 HARRISON CV | TRUE | Grass | New Style | None | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 391 | 25 | 11/8/2016 | 2320 MORNINGSIDE DR | TRUE | Grass | New Style | None | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |

2016 SSES Manhole Inspection Report (Final 10%)

| Mini System | Manhole # | JB # | Date of Inspection | Location | Manhole Located | Surrounding Area | Lid Type | Ring Adjustment | Ring Condition | Ring Seal | Evidence of Surcharge | MH Previously Rehabbed | Manhole Construction | Lower 18" Condition | Wall Condition | Manhole Invert |
|-------------|-----------|------|--------------------|--------------------------|-----------------|------------------|-----------|-----------------|----------------|-----------|-----------------------|------------------------|----------------------|---------------------|----------------|----------------|
| 8 | 303 | 25 | 11/7/2016 | 2006 CATHARINE DR | TRUE | Grass | New Style | Brick | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 350 | 25 | 11/7/2016 | 1908 CATHARINE CIR | TRUE | Grass | Light | Brick | Sound | Sound | None | N/A | Brick | Sound | Sound | N/A |
| 8 | 351 | 25 | 11/7/2016 | 1912 CATHARINE CIR | TRUE | Grass | New Style | None | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 8 | 372 | 24 | 11/7/2016 | 2700 MINX LN | TRUE | Grass | New Style | None | Sound | Sound | None | N/A | Poured in Place | Sound | Sound | N/A |
| 8 | 298 | 25 | 11/4/2016 | 1903 CATHARINE DR | TRUE | Grass | New Style | Metal | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 345 | 24 | 11/4/2016 | 2106 TURTLE CREEK | TRUE | Grass | New Style | Metal | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 47 | 25 | 11/4/2016 | 2706 COVEY DR | TRUE | Grass | Heavy | Brick | Sound | Sound | Previous | N/A | Brick | Sound | Sound | N/A |
| 8 | 50 | 25 | 11/4/2016 | 1901 CATHARINE DR | TRUE | Grass | Light | None | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 61 | 25 | 11/4/2016 | 2706 COVEY DR | TRUE | Grass | Heavy | None | Sound | Sound | Previous | N/A | Precast | Sound | Sound | N/A |
| 8 | 65 | 25 | 11/4/2016 | COVEY DR/TURTLE CREEK RD | TRUE | Grass | Light | Brick | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 66 | 25 | 11/4/2016 | 2601 TURTLE CREEK RD | TRUE | Grass | Light | Brick | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 73 | 25 | 11/4/2016 | 2706 WHITE CIR | TRUE | Grass | Heavy | Brick | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 46 | 25 | 11/3/2016 | 2612 COVEY DR | TRUE | Grass | Light | Brick | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |
| 8 | 63 | 25 | 11/3/2016 | 2612 COVEY DR | TRUE | Grass | Heavy | Brick | Sound | Sound | None | N/A | Precast | Sound | Sound | N/A |

Appendix E

Manhole Resultant Repairs

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|----------------------------------|-----------|----------------------|----------------|----------------|-----------------|----------------|--------------|---|--|--|----------------|
| 5 | 615 | 17 | 3207 Fielders Dr | New Style | Poured In Place | Concrete | 5/17/2017 | Raise 3" | | | | | | 5/17/2017 |
| 5 | 203 | 17 | 408 University Dr | Heavy | Brick | Concrete | 5/15/2017 | | | | Material Deposition on Bench | Roots | | |
| 5 | 189 | 17 | 3000 Aggie Rd | Heavy | Brick | Clay | 5/11/2017 | | | | | Leaking/Evidence of Leaking | | |
| 5 | 175 | 17 | 3000 Aggie Rd | Heavy | Brick | Clay | 5/11/2017 | | | | | Pipe Penetrations Leaking | | |
| 5 | 174 | 17 | 3000 Aggie Rd | Heavy | Brick | Clay | 5/11/2017 | | | Offset | Material Deposition on Bench | | | |
| 5 | 16 | 18 | 2713 Iroquois St | Heavy | Brick | Concrete | 6/20/2017 | | | | Material Deposition on Bench | Deteriorated | Grout/Coat Entire Manhole | |
| 5 | 17 | 18 | 2645 Iroquois St | Heavy | Brick | Clay | 6/20/2017 | | | Cracked | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 18 | 18 | Caddo St | Light | Brick | Clay | 6/20/2017 | | | Cracked | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 19 | 18 | 501 University East Loop | Heavy | Brick | Concrete | 6/20/2017 | | | | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | | |
| 5 | 20 | 18 | 501 University East Loop | Heavy | Brick | Clay | 6/21/2017 | Raise 1" | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 23 | 18 | University East Loop | Heavy | Brick | Clay | 6/28/2017 | | Broken | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 27 | 18 | University East Loop/Cherokee St | New Style | Brick | Clay | 6/29/2017 | | | Deteriorated | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 29 | 18 | University East Loop | Heavy | Brick | Concrete | 6/20/2017 | | | Offset | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 30 | 18 | Driver St | Heavy | Brick | Concrete | 6/19/2017 | | | Deteriorated | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 31 | 18 | Driver St | Heavy | Brick | Concrete | 6/20/2017 | | | Cracked | Material Deposition on Bench | Cracked | Grout/Coat Entire Manhole | |
| 5 | 32 | 18 | 114 Driver St | Heavy | Brick | Concrete | 6/20/2017 | | | | Material Deposition on Bench/Invert Missing | Deteriorated | Grout/Coat Entire Manhole | |
| 5 | 33 | 18 | 108 Driver St | New Style | Brick | Concrete | 6/20/2017 | | | | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 5 | 606 | 17 | 3601 Hereford Dr | New Style | Precast | Concrete | 5/23/2017 | | | Cracked | | | | |
| 5 | 607 | 17 | 3601 Hereford Dr | New Style | Precast | Concrete | 5/23/2017 | | | | | Leaking Joints | | |
| 5 | 370 | 17 | 3624 Blueridge Cir | New Style | Precast | Concrete | 5/23/2017 | | | Cracked | | | | |
| 5 | 238 | 17 | 3625 Blueridge Cir | Heavy | Precast | Concrete | 5/23/2017 | | | Cracked | | Leaking Joints | | |
| 5 | 34 | 18 | 106 Driver St | Heavy | Brick | Concrete | 6/20/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing | | Grout/Coat Entire Manhole | |
| 5 | 217 | 17 | 305 Leslie Ann | Light | Precast | Clay | 5/15/2017 | | | | | Leaking/Evidence of Leaking | Bench leaking on southeast corner by outgoing pipe | 9/19/2017 |
| 5 | 373 | 17 | 3700 Catalina Cv | New Style | Poured In Place | Concrete | 5/22/2017 | | | | | Leaking Joints | | |
| 5 | 251 | 17 | 3704 Aggie Rd | Light | Precast | Concrete | 5/19/2017 | | | | | | Roots in flow line | |

Notes:

(1) Octo= Octocreted, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|-----------------------------|-----------|----------------------|----------------|----------------|-----------------|----------------|--------------|------------------------------|---|--|----------------|
| 5 | 235 | 17 | 3702 Aggie Rd | Light | Precast | Concrete | 5/19/2017 | | | | | | Ring not sealed | |
| 5 | 232 | 17 | 3604 Marzee Ann Dr | Light | Precast | Clay | 5/19/2017 | | | | | Leaking/Evidence of Leaking | | |
| 5 | 230 | 17 | 3600 Marzee Ann Dr | Light | Precast | Concrete | 5/19/2017 | | | | | Leaking Joints | | |
| 5 | 226 | 17 | 3530 Barbara Ann Dr | Light | Precast | co | 5/18/2017 | | | Cracked | | Leaking/Evidence of Leaking | | |
| 5 | 239 | 17 | 3520 Leslie Ann Dr | New Style | Precast | Concrete | 5/18/2017 | | | Deteriorated | | Cracked | | |
| 5 | 240 | 17 | 3524 Leslie Ann Dr | Light | Precast | Concrete | 5/18/2017 | | | | Pipe Penetrations Leaking | | | |
| 5 | 210 | 17 | 3521 Bess Dr | Heavy | Precast | Concrete | 5/24/2017 | | | | | Leaking Joints | | |
| 5 | 206 | 17 | 206 N. Hunter Ln | New Style | Precast | Concrete | 5/24/2017 | | | | Pipe Penetrations Leaking | | | |
| 5 | 186 | 17 | 104 N. Hunter Ln | New Style | Precast | Concrete | 5/24/2017 | | | Cracked | | Leaking/Evidence of Leaking | | |
| 5 | 183 | 17 | 111 S. Hunter Ln | Heavy | Brick | Concrete | 5/24/2017 | | | | Material Deposition on Bench | | Has roots in bottom | |
| 5 | 204 | 17 | 404 University DR | Heavy | Precast | Concrete | 6/1/2017 | | | | | Leaking Joints | | |
| 1 | 327 | 17 | 3808 Burdyslaw Dr | New Style | Precast | Concrete | 6/5/2017 | | | | | | Doughnuts needs to be octcreted | |
| 1 | 283 | 17 | 3806 Vickie Dr | Light | Precast | Concrete | 6/5/2017 | | | | | | Leak at bottom of manhole on north side | |
| 5 | 321 | 17 | 3707 Burdyslaw Dr | New Style | Precast | Concrete | 6/5/2017 | | | | Pipe Penetrations Leaking | | | |
| 5 | 319 | 17 | Toni Ann Dr/Burdyslaw Dr | New Style | Precast | Concrete | 6/5/2017 | | | | Pipe Penetrations Leaking | Leaking/Evidence of Leaking | Small hole in wall leaking | |
| 5 | 279 | 17 | 1224 Sharon Dr | Light | Precast | Concrete | 6/6/2017 | | | | Material Deposition on Bench | Roots | | |
| 5 | 277 | 17 | 1212 Sharon Dr | Light | Precast | Concrete | 6/6/2017 | | | | | Pipe Penetrations Leaking | | |
| 5 | 282 | 17 | 3721 Vickie Dr | Light | Poured In Place | Concrete | 6/6/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 5 | 261 | 17 | 3600 Sharon Dr | Light | Precast | Concrete | 6/6/2017 | | | | | Roots | | |
| 5 | 266 | 17 | 1112 Jewell Dr | Light | Precast | Concrete | 6/6/2017 | | | | | Roots/Leaking Joints/Leaking/Evidence of Leaking | | |
| 5 | 334 | 17 | Jewell Dr/Johnson Ave | New Style | Precast | Concrete | 6/6/2017 | | | Offset | | | | |
| 5 | 608 | 17 | 3513 E Johnson Ave | Light | Precast | Concrete | 6/6/2017 | | | | | Leaking Joints/Evidence of Leaking | | |
| 5 | 270 | 17 | 3299 E Johnson Ave | Light | Poured In Place | Concrete | 6/6/2017 | | | | Material Deposition on Bench | Roots/Leaking/Evidence of Leaking/Pipe Penetrations Leaking | | |
| 4 | 85 | 32 | 1117 Falls St | Heavy | Poured In Place | Clay | 6/6/2017 | | | Deteriorated | Material Deposition on Bench | | | |
| 4 | 87 | 32 | Red Wolf Blvd/Nettleton Ave | New Style | Brick | Concrete | 8/17/2017 | | | | | | Inspected by CCTV. Manhole under asphalt - need to jackhammer & raise. | |

Notes:

(1) Octo= Octcreted, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|---------------------------|-----------|----------------------|----------------|----------------|-----------------|----------------|-----------|--|--|---|----------------|
| 4 | 92 | 32 | 1309 Pardew St | Light | Poured In Place | Clay | 6/7/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 94 | 32 | 2010 Nettleton Ave | Heavy | Precast | Clay | 6/7/2017 | | | | Material Deposition on Bench | Leaking Joints | | |
| 4 | 95 | 32 | Nettleton Ave/Oakdale St | Light | Poured In Place | Concrete | 6/7/2017 | | Broken | | | Cracked/Leaking/Evidence of Leaking | Repair crack in wall | |
| 4 | 102 | 32 | Oakdale St/Stallings Ln | Heavy | Poured In Place | Clay | 6/7/2017 | | | | Material Deposition on Bench/Pipe Penetrations Leaking | | | |
| 4 | 105 | 32 | 1200 Glendale St | Heavy | Brick | Clay | 6/7/2017 | | | | Material Deposition on Bench | Cracked | Grout/Coat Entire Manhole | |
| 4 | 112 | 32 | Tony Dr/Primrose St | Heavy | Poured In Place | Clay | 6/7/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 114 | 32 | Stallings Ln/Tony Dr | Light | Poured In Place | Concrete | 6/7/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing/Invert Missing | | | |
| 4 | 115 | 32 | 2400 Stallings Ln | Heavy | Brick | Clay | 6/30/2017 | | | | Deteriorated Bench/Missing | | | |
| 4 | 118 | 32 | E Nettleton Ave/Tony Dr | Heavy | Poured In Place | Clay | 6/7/2017 | | | | Material Deposition on Bench | Cracked/Leaking/Evidence of Leaking | | |
| 4 | 119 | 32 | 2608 E Nettleton Ave | Heavy | Poured In Place | Clay | 6/7/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 120 | 32 | 2704 Nettleton Ave | New Style | Poured In Place | Concrete | 6/7/2017 | | | | Material Deposition on Bench/Invert Missing | Leaking/Evidence of Leaking | | |
| 4 | 121 | 32 | 2724 Nettleton Ave | Light | Poured In Place | Clay | 6/7/2017 | | | | Pipe Penetrations Leaking | Leaking/Evidence of Leaking | | |
| 4 | 125 | 32 | Bittle St/Forrest Home Rd | New Style | Brick | Clay | 6/30/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing | | | |
| 4 | 133 | 32 | 1404 Stone St | Heavy | Brick | Concrete | 6/12/2017 | | | | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 4 | 134 | 32 | 1404 Stone St | New Style | Brick | Concrete | 6/13/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Need new top section. The opening is only 16" | |
| 4 | 135 | 32 | 2605 E Nettleton Ave | Heavy | Precast | Concrete | 6/7/2017 | | | | Material Deposition on Bench | Deteriorated/Leaking/Evidence of Leaking | Deterioration on the ring & steps | |
| 4 | 138 | 32 | 2305 E Nettleton Ave | Heavy | Brick | Concrete | 6/8/2017 | | | | Material Deposition on Bench/Invert Flow Issues | Leaking/Evidence of Leaking | | |
| 4 | 139 | 32 | 1316 Stone St | New Style | Precast | Concrete | 6/8/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 140 | 32 | 1220 Stone St | Heavy | Precast | Concrete | 6/8/2017 | | | | Material Deposition on Bench | Leaking Joints | Grout is missing in joints | 9/18/2017 |
| 4 | 141 | 32 | 1216 Caraway Rd | Heavy | Brick | Concrete | 6/8/2017 | | Broken | | Material Deposition on Bench/Pipe Penetrations Leaking | Leaking/Evidence of Leaking | | |

Notes:

(1) Octo= Octocreted, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|--|-----------|----------------------|----------------|----------------|-----------------|----------------|-----------|---|--|--|----------------|
| 4 | 142 | 32 | 1205 Caraway Rd | Heavy | Brick | Brick | 6/8/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing | Leaking/Evidence of Leaking | | |
| 4 | 143 | 32 | 1235 Caraway Rd | Heavy | Poured In Place | Concrete | 6/8/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 145 | 32 | 1239 Caraway Rd | New Style | Brick | Concrete | 6/8/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 145 | 32 | 1239 S. Caraway Rd | New Style | Brick | Concrete | 6/8/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 148 | 32 | 1712 Caraway Rd | Heavy | Brick | Concrete | 6/12/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 149 | 32 | Caraway Rd/Wilkins Ave/Forrest Home Rd | New Style | Brick | Clay | 6/30/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing | Leaking/Evidence of Leaking | | |
| 4 | 153 | 32 | 1402 S. Caraway Rd | Heavy | Poured In Place | Concrete | 8/18/2017 | | | | | | Inspected by CCTV. Manhole under asphalt - need to jackhammer & raise. | |
| 4 | 155 | 32 | Caraway Rd/Wilkins Ave/Forrest Home Rd | New Style | Poured In Place | Clay | 6/30/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing | | | |
| 4 | 159 | 32 | 2020 Wilkins Ave | Light | Brick | Concrete | 6/12/2017 | Raise 1" | | | Material Deposition on Bench | Cracked/Leaking Joints/Evidence of Leaking | Concrete is falling off the walls | |
| 4 | 160 | 32 | 1523 Marketplace Dr | Light | Precast | Concrete | 6/12/2017 | | | | Material Deposition on Bench | | Lateral has toilet paper built up in front of it | |
| 4 | 162 | 32 | 1406 Marketplace Dr | Light | Precast | Concrete | 6/12/2017 | | | Offset | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | | |
| 4 | 163 | 32 | 1404 Marketplace Dr | Light | Precast | Concrete | 6/12/2017 | | Broken | | Material Deposition on Bench | | | |
| 4 | 164 | 32 | 2014 Wilkins Ave | Heavy | Brick | Clay | 6/29/2017 | Raise 2" | | | Material Deposition on Bench | | | |
| 4 | 167 | 32 | 1705 Bernard St | Heavy | Brick | Clay | 6/29/2017 | Raise 1" | | | Material Deposition on Bench | | | |
| 4 | 168 | 32 | 1803 Bernard St | Heavy | Brick | Clay | 6/29/2017 | Raise 1" | | | Material Deposition on Bench | | | |
| 4 | 169 | 32 | 1901 Bernard St | Heavy | Poured In Place | Clay | 8/18/2017 | | | | | | Inspected by CCTV. Manhole under asphalt - need to jackhammer & raise. | |
| 4 | 170 | 32 | 1905 Bernard St | Heavy | Brick | Clay | 6/29/2017 | Raise 1" | | | Material Deposition on Bench | | | |
| 4 | 173 | 32 | 1907 Bernard St | Heavy | Brick | Clay | 6/14/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 175 | 32 | 1810 E. Highland Dr | New Style | Precast | Concrete | 8/30/2017 | | | | | | Manhole Smoked, needs to be octcreted | 9/18/2017 |
| 4 | 181 | 32 | Nettleton Ave/Thrush Rd | Light | Poured In Place | Concrete | 6/8/2017 | | | | Deteriorated Bench/Missing | Leaking/Evidence of Leaking | | |

Notes:

(1) Octo= Octcreted, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|----------------------------|-----------|----------------------|----------------|----------------|-----------------|----------------|----------------------|---|--|---|----------------|
| 4 | 182 | 32 | Thrush Rd/Lark Dr | Light | Poured In Place | Clay | 6/8/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing | | | 4/19/2017 |
| 4 | 185 | 32 | Starling Dr/Thrush Rd | New Style | Poured In Place | Clay | 6/8/2017 | | | | Deteriorated Bench/Missing | | | |
| 4 | 186 | 32 | Nettleton Ave/Franklin St | Heavy | Brick | Concrete | 6/9/2017 | | | | | Deteriorated | Deterioration/Concrete missing in the bottom part of the wall. Large void. | |
| 4 | 187 | 32 | 1703 Lark Dr | Heavy | Brick | Clay | 6/8/2017 | | | | Material Deposition on Bench/Invert Missing | | Small piece of clay missing in invert | |
| 4 | 193 | 32 | Nettleton Ave/Robin Rd | Light | Brick | Concrete | 6/9/2017 | | | Offset/Deteriorated | Material Deposition on Bench | | | |
| 4 | 198 | 32 | 1100 Robin Rd | New Style | Brick | Clay | 6/9/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 199 | 32 | 1629 E Nettleton Ave | Light | Precast | Clay | 6/9/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 200 | 32 | Nettleton Ave/Hillcrest Dr | Light | Precast | Concrete | 6/9/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 202 | 32 | 1400 Hillcrest Dr | Light | Precast | Clay | 6/9/2017 | | | | Material Deposition on Bench/Invert Flow Issues | Leaking/Evidence of Leaking | | |
| 4 | 204 | 32 | 1406 Hillcrest Dr | Light | Precast | Concrete | 6/9/2017 | Raise 2" | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Located in the lower spot of the yard and had grass clippings on the top. Looks like all the water runs to the manhole. | |
| 4 | 205 | 32 | 1500 Hillcrest Dr | Light | Precast | Concrete | 6/9/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 4 | 207 | 32 | 1600 Garland Dr | Heavy | Brick | Clay | 6/12/2017 | | | | Pipe Penetrations Leaking | | | |
| 4 | 208 | 32 | 1501 Garland Dr | Heavy | Brick | Concrete | 6/12/2017 | | | | Pipe Penetrations Leaking | Roots | Roots coming in all around stub outs | |
| 4 | 209 | 32 | Virginia Dr/Wilkins Ave | Heavy | Brick | Clay | 6/29/2017 | | Broken | | Material Deposition on Bench | | | |
| 4 | 212 | 32 | 1614 Wilkins Ave | Heavy | Brick | Clay | 6/29/2017 | | Broken | | Material Deposition on Bench | | | |
| 4 | 215 | 32 | 1604 Hillcrest Dr | Light | Precast | Concrete | 6/9/2017 | | | | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | | |
| 4 | 216 | 32 | 1602 Hillcrest Dr | Light | Precast | Concrete | 6/9/2017 | | Broken | | Material Deposition on Bench/Pipe Penetrations Leaking | | Root coming in around pipes coming into manhole | |
| 4 | 217 | 32 | 1502 Hillcrest Dr | Light | Precast | Concrete | 6/9/2017 | | | | Material Deposition on Bench | Roots | Roots on the floor of manhole | |
| 4 | 218 | 32 | 1506 Hillcrest Dr | Light | Precast | Concrete | 6/9/2017 | | | Deteriorated/Cracked | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 222 | 32 | 1800 Hillcrest Dr | Heavy | Brick | Concrete | 6/13/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |

Notes:

(1) Octo= Octocreted, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|-----------------------------|-----------|----------------------|----------------|----------------|-----------------|----------------|-----------|--|-------------------------------------|--|----------------|
| 4 | 224 | 32 | 1615 Wilkins Ave | New Style | Brick | Clay | 8/17/2017 | | | | | | Inspected by CCTV. Manhole needs raised - under football field. | |
| 4 | 225 | 32 | 1615 Wikins Ave | Heavy | Brick | Concrete | 8/17/2017 | | | | | | Inspected by CCTV. Manhole needs raised - under football field. | |
| 4 | 226 | 32 | 1615 Wilkins Ave | Heavy | Brick | Concrete | 6/14/2017 | | | | Material Deposition on Bench | Cracked/Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 4 | 227 | 32 | 1615 Wilkins Ave | Heavy | Brick | Brick | 6/14/2017 | Raise 2" | | | Material Deposition on Bench/Deteriorated Bench/Missing/Invert Flow Issues | Cracked/Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 4 | 228 | 32 | McArthur Park/Kenesaw St | Heavy | Poured In Place | Concrete | 6/14/2017 | | | | Invert Flow Issues | | | |
| 4 | 229 | 32 | McArthur Park/Kenesaw St | Heavy | Brick | Concrete | 6/14/2017 | | | | Deteriorated Bench/Missing | | | |
| 4 | 230 | 32 | 1908 McArthur Park | New Style | Brick | Concrete | 6/14/2017 | | | Cracked | Material Deposition on Bench | | | |
| 4 | 231 | 32 | 1308 E. Highland Dr | Heavy | Brick | Concrete | 6/14/2017 | | | | | Cracked | Concrete on walls have cracked in a couple spots & needs re-octcreted | |
| 4 | 234 | 32 | Laurelwood Ct/McArthur Park | New Style | Poured In Place | Concrete | 6/13/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing | | | |
| 4 | 236 | 32 | 1607 Hillcrest Dr | New Style | Poured In Place | Concrete | 6/12/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 237 | 32 | 1503 Wilkins Ave | New Style | Poured In Place | Clay | 6/12/2017 | | | | Material Deposition on Bench | Cracked/Leaking/Evidence of Leaking | | |
| 4 | 238 | 32 | 1503 Wilkins Ave | Heavy | Poured In Place | Clay | 6/12/2017 | | Broken | | Material Deposition on Bench | | | |
| 4 | 239 | 32 | 1620 Cooper Ln | Heavy | Poured In Place | Clay | 6/12/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 240 | 32 | Wilkins Ave/Cooper Ln | New Style | Brick | Clay | 6/12/2017 | | | | Material Deposition on Bench | Cracked | Pieces of concrete missing off wall. Concrete and asphalt lying on bench. | |
| 4 | 242 | 32 | 1601 Montez Dr | Heavy | Brick | Clay | 6/12/2017 | | | | Material Deposition on Bench | Cracked | Starting to crack at top around ring & chunk of concrete missing at the bottom that looks like a pipe used to be there | |
| 4 | 243 | 32 | 1621 Montez Dr | Heavy | Brick | Clay | 6/12/2001 | | | | Material Deposition on Bench | Cracked/Leaking/Evidence of Leaking | | |
| 4 | 244 | 32 | Castle Dr/Wilkins Ave | Heavy | Brick | Concrete | 6/12/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing | | | |

Notes:

(1) Octo= Octcreted, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|-------------------------------|-----------|----------------------|----------------|----------------|-----------------|----------------|----------------------|--|--|--|----------------|
| 4 | 245 | 32 | 1607 Castle Dr | Heavy | Brick | Clay | 6/12/2017 | Raise 1" | | | Material Deposition on Bench/Deteriorated Bench/Missing | | | |
| 4 | 246 | 32 | 1600 Castle Dr | Heavy | Brick | Clay | 6/12/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing/Invert Flow Issues | | | |
| 4 | 247 | 32 | 1100 Wilkins Ave | Light | Precast | Concrete | 6/12/2017 | | | | Material Deposition on Bench/Invert Flow Issues | Deteriorated | Deterioration of concrete joints | |
| 4 | 249 | 32 | 1507 Hillcrest Dr | Heavy | Brick | Concrete | 6/14/2017 | | Broken | Deteriorated/Cracked | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 4 | 250 | 32 | 1608 Cooper Ln | Heavy | Brick | Concrete | 6/14/2017 | | | | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 4 | 252 | 32 | 1612 Cooper Ln | Heavy | Brick | Concrete | 6/14/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 253 | 32 | 1608 Cooper Ln | Heavy | Poured In Place | Concrete | 6/12/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 4 | 256 | 32 | 1605 Montez Dr | Heavy | Brick | Concrete | 6/14/2017 | Raise 2" | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Need to talk to customer about making a better path to get to manhole | |
| 4 | 257 | 32 | Nettleton Ave/Thrush Rd | Light | Precast | Concrete | 6/8/2017 | | Broken | | Material Deposition on Bench/Invert Flow Issues | Leaking/Evidence of Leaking | Need new ring & lid | |
| 4 | 258 | 32 | Oak Meadow Blvd/Nettleton Ave | Light | Precast | Concrete | 6/8/2017 | | | Cracked | | Leaking/Evidence of Leaking | Joints appear to have been leaking at one time. Ring needs to be resealed - it's loose and concrete is broken. | |
| 5 | 35 | 18 | Driver St/Quapaw St | New Style | Brick | Concrete | 6/20/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing | Deteriorated | Grout/Coat Entire Manhole | |
| 5 | 36 | 18 | 2505 Aggie Rd | Light | Brick | Concrete | 6/20/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 37 | 18 | 2505 Aggie Rd | New Style | Brick | Concrete | 6/23/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing | Cracked/Deteriorated/Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 38 | 18 | Aggie Rd/Driver ST | Light | Poured In Place | Concrete | 6/23/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 5 | 39 | 18 | 2307 Aggie Rd | Light | Brick | Concrete | 6/23/2017 | | Broken | | Material Deposition on Bench | | | |
| 5 | 40 | 18 | Danner Ave | New Style | Precast | Concrete | 6/28/2017 | | | | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | | |
| 5 | 42 | 18 | Driver St | Heavy | Brick | Concrete | 6/19/2017 | | | Deteriorated/Cracked | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 43 | 18 | Driver St | New Style | Brick | Concrete | 6/19/2017 | | | Deteriorated/Cracked | Material Deposition on Bench/Invert Flow Issues | | Grout/Coat Entire Manhole | 10/26/2017 |

Notes:

(1) Octo= Octocreted, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|--------------------------------|-----------|----------------------|----------------|----------------|-----------------|----------------|----------------------|--|--|---|----------------|
| 4 | 260 | 32 | Oak Meadow Blvd/Oak Meadow Cv | Light | Precast | Concrete | 6/8/2017 | | | | Material Deposition on Bench | Roots | | |
| 4 | 261 | 32 | 2127 Oak Meadow Cv | New Style | Precast | Concrete | 8/17/2017 | | | | | | Inspected by CCTV. Manhole needs raised - under patio. | |
| 4 | 262 | 32 | 1102 Oak Meadow Blvd | New Style | Precast | Concrete | 8/16/2017 | | | | Material Deposition on Bench | | Inspected by CCTV. Need to cut bushes around manhole. | |
| 4 | 263 | 32 | 1102 Oak Meadow Blvd | Light | Precast | Concrete | 6/8/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 265 | 32 | 1101 Oak Meadow Blvd | New Style | Precast | Concrete | 8/16/2017 | | | | | | Inspected by CCTV. Manhole is under driveway - need to jackhammer. | |
| 4 | 266 | 32 | 1107 Oak Meadow Blvd | Light | Precast | Concrete | 6/8/2017 | | | | Material Deposition on Bench/Pipe Penetrations Leaking | | | |
| 4 | 267 | 32 | 1212 Stone St | Light | Precast | Concrete | 6/8/2017 | | | | Material Deposition on Bench/Pipe Penetrations Leaking | Leaking/Evidence of Leaking | | |
| 4 | 271 | 32 | 2519 Forrest Home Rd | New Style | Precast | Clay | 6/30/2017 | | | | Material Deposition on Bench/Invert Flow Issues | Leaking/Evidence of Leaking | | |
| 4 | 278 | 32 | 2721 Nettleton Ave | Heavy | Precast | Concrete | 6/13/2017 | | | | Material Deposition on Bench/Pipe Penetrations Leaking | | | |
| 4 | 300 | 32 | 2612 Stallings Ln | New Style | Precast | Concrete | 6/7/2017 | | | | Material Deposition on Bench | Leaking Joints | | |
| 4 | 301 | 32 | Ivy Green/Wilkins Ave | New Style | Precast | Clay | 6/29/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 4 | 303 | 32 | 1706 Ivy Green St | New Style | Precast | Concrete | 6/13/2017 | | | | Material Deposition on Bench/Invert Flow Issues | Leaking/Evidence of Leaking | | |
| 4 | 305 | 32 | 1807 Greens Point Cv | New Style | Precast | Concrete | 6/13/2017 | | | | Material Deposition on Bench | Roots/Leaking/Evidence of Leaking | | |
| 4 | 307 | 32 | 1808 E. Highland Dr | New Style | Poured In Place | Concrete | 6/14/2017 | | | Deteriorated/Cracked | Material Deposition on Bench/Invert Flow Issues | | Can't bushog because of the location, but weeds have grown up all around manhole. Rings needs to be resealed. | |
| 4 | 315 | 32 | 1805 Woods Point Cv | New Style | Precast | Concrete | 6/13/2017 | | | | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Ring adjustment is loose. Bottom joint is leaking. | |
| 4 | 316 | 32 | 1801 Woods Point Cv | New Style | Precast | Concrete | 6/13/2017 | | | | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | | |
| 4 | 317 | 32 | 1814 Ivy Point Cv | New Style | Precast | Concrete | 6/13/2017 | | | | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | | |
| 5 | 44 | 18 | Driver St/University East Loop | Heavy | Brick | Concrete | 6/20/2017 | | | Cracked | Material Deposition on Bench | Cracked/Deteriorated | Inside & outside of manhole needs to be coated. Ditch crossing is washed out & can | |

Notes:

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2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|----------------------------------|-----------|-----------------------|----------------|----------------|-----------------|----------------|-----------|---|-------------------------------------|----------------------------|----------------|
| | | | | | | | | | | | | | see the pipe. | |
| 5 | 45 | 18 | Driver St/Cherokee St | Heavy | Brick | Clay | 6/20/2017 | | | Cracked | Material Deposition on Bench | Deteriorated | Grout/Coat Entire Manhole | |
| 5 | 48 | 18 | 114 Driver St | Heavy | Poured In Place/Brick | Clay | 6/20/2017 | | | | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 5 | 50 | 18 | Osage St/Driver ST | Heavy | Brick | Concrete | 6/20/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | Grout/Coat Entire Manhole | |
| 5 | 51 | 18 | 2506 Osage St | Heavy | Brick | Clay | 6/21/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | Lots of rocks in flow line | |
| 5 | 53 | 18 | Driver St/Quapaw St | New Style | Brick | Concrete | 6/20/2017 | | | Offset | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 54 | 18 | 2507 Quapaw St | Heavy | Brick | Clay | 6/20/2017 | | Broken | | Material Deposition on Bench | | | |
| 5 | 60 | 18 | 303 University East Loop | Light | Brick | Concrete | 6/22/2017 | | | | Invert Flow Issues/Invert Missing | | | |
| 5 | 61 | 18 | 504 University West Loop | New Style | Brick | Concrete | 6/19/2017 | | | | Material Deposition on Bench | Cracked | Grout/Coat Entire Manhole | |
| 5 | 64 | 18 | 119 University West Loop | Heavy | Brick | Concrete | 6/19/2017 | Raise 1" | | | Material Deposition on Bench | Cracked/Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 65 | 18 | 114 University West Loop | Heavy | Brick | Concrete | 6/19/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 66 | 18 | 108 University West Loop | Heavy | Precast | Concrete | 6/19/2017 | | | | Material Deposition on Bench | | | 7/27/2017 |
| 5 | 67 | 18 | 114 University West Loop | Heavy | Brick | Concrete | 6/19/2017 | | | | Material Deposition on Bench | Cracked | Grout/Coat Entire Manhole | |
| 5 | 68 | 18 | Marshall St | Heavy | Brick | Concrete | 6/19/2017 | | Broken | | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 69 | 18 | University West Loop/Marshall St | New Style | Precast | Concrete | 6/19/2017 | Raise 2" | | | Material Deposition on Bench | | | |
| 5 | 70 | 18 | 115 University West Loop | New Style | Brick | Concrete | 6/19/2017 | Raise 2" | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 73 | 18 | 115 University West Loop | Heavy | Brick | Concrete | 6/19/2017 | | | | | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 74 | 18 | Aggie Rd/University West Loop | Heavy | Brick | Concrete | 6/19/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 75 | 18 | 2007 Aggie Rd | Heavy | Brick | Concrete | 6/19/2017 | | | | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 5 | 76 | 18 | 2007 Aggie Rd | Heavy | Brick | Concrete | 6/19/2017 | | | | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 5 | 77 | 18 | 2007 Aggie Rd | Heavy | Brick | Concrete | 6/19/2017 | | | Cracked | Material Deposition on Bench | Cracked | Grout/Coat Entire Manhole | |
| 5 | 78 | 18 | 2108 Aggie Rd | Light | Brick | Concrete | 6/19/2017 | | | | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 5 | 79 | 18 | 113 Dean St | Heavy | Brick | Concrete | 6/19/2017 | | | | Material Deposition on | | Grout/Coat Entire Manhole | |

Notes:

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2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|------------------------|-----------|----------------------|----------------|----------------|-----------------|-----------------|----------------|---|--|---|----------------|
| | | | | | | | | | | | Bench | | | |
| 5 | 80 | 18 | 113 Dean ST | New Style | Brick | Concrete | 6/19/2017 | | | | Material Deposition on Bench | Cracked | Grout/Coat Entire Manhole | |
| 5 | 81 | 18 | Dean St | Heavy | Brick | Concrete | 6/16/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 82 | 18 | Dean St | Heavy | Brick | Concrete | 6/16/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing | Cracked | Grout/Coat Entire Manhole | |
| 5 | 83 | 18 | Dean St | New Style | Brick | Concrete | 6/16/2017 | | | | | | Grout/Coat Entire Manhole | |
| 5 | 84 | 18 | Johnson Ave/Russell Dr | New Style | Brick | Concrete | 6/16/2017 | | | | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 5 | 85 | 18 | 2118 Johnson Ave | Heavy | Brick | Clay | 6/16/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 86 | 18 | Johnson Ave/Snyder St | New Style | Brick | Concrete | 6/16/2017 | | | | | Leaking Joints/Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 5 | 89 | 18 | 2304 Johnson Ave | Heavy | Brick | Concrete | 6/16/2017 | | | | Material Deposition on Bench | Cracked/Deteriorated | Grout/Coat Entire Manhole | |
| 5 | 90 | 18 | 2400 Johnson Ave | New Style | Brick | Concrete | 6/16/2001 | | Broken | | Material Deposition on Bench/Invert Flow Issues | | Grout/Coat Entire Manhole | |
| 5 | 91 | 18 | 2424 Johnson Ave | Light | Brick | Concrete | 6/16/2017 | | Broken | | Material Deposition on Bench | Cracked | Grout/Coat Entire Manhole | |
| 5 | 92 | 18 | 2500 Johnson Ave | New Style | Brick | Concrete | 6/16/2017 | | | Cracked | Material Deposition on Bench | Cracked | Grout/Coat Entire Manhole | |
| 5 | 97 | 18 | N. Caraway Rd/Belt St | Heavy | Brick | Clay | 5/19/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Leaking around top of main on west side of manhole | |
| 5 | 98 | 18 | 2227 Belt St | New Style | Precast | Concrete | 5/19/2017 | | Broken | Offset | Material Deposition on Bench | | Ring needs to be replaced | |
| 5 | 102 | 18 | 710 N. Caraway Rd | Heavy | Poured In Place | Clay | 5/19/2017 | | Broken | Cracked | Material Deposition on Bench | | Needs new ring & riser | |
| 5 | 105 | 18 | 801 Sylvan Hill Dr | Light | Poured In Place | Clay | 8/15/2017 | | | | | | Needs octcreted below ring. | |
| 5 | 106 | 18 | 807 Sylvan Hill Dr | Heavy | Poured In Place | Clay | 8/15/2017 | | | Deteriorated | | | Needs octcreted below ring. | |
| 5 | 110 | 18 | 1016 Sylvan Hill Dr | Heavy | Brick | Clay | 8/15/2017 | | | Deteriorated | | | Need to octcrete ring & plug holes in lid. | |
| 5 | 114 | 18 | 203 Russell Dr | Heavy | Brick | Concrete | 6/16/2017 | | | | Material Deposition on Bench | Cracked/Deteriorated | Grout/Coat Entire Manhole | |
| 5 | 115 | 18 | 1916 Word Cv | Heavy | Brick | Concrete | 6/21/2017 | | Broken/ Cracked | | Material Deposition on Bench | Deteriorated | Grout/Coat Entire Manhole | |
| 5 | 116 | 18 | 309 Cedar Heights Cv | Heavy | Brick | Clay | 6/16/2017 | | | Offset/Cracked | Material Deposition on Bench/Invert Flow Issues | Cracked | Grout/Coat Entire Manhole | |
| 5 | 117 | 18 | 319 Cedar Heights Cv | Heavy | Brick | Clay | 6/16/2017 | | | | Material Deposition on Bench | Cracked | Grout/Coat Entire Manhole | |
| 5 | 119 | 18 | 316 Russell Dr | New Style | Precast | Concrete | 5/19/2017 | | | | Material Deposition on Bench | Roots/Leaking/Evidence of Leaking | Need to cut roots around laterals on east & west sides of manholes & octcrete around them | |

Notes:

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2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|---|-----------|----------------------|----------------|----------------|-----------------|----------------|--------------|--|-----------------------------|---|----------------|
| 5 | 122 | 18 | Sybel Dr/Russell Dr | New Style | Precast | Concrete | 5/19/2017 | | | | | Lifting Hole | Lifting holes on southeast side of manhole leaking | |
| 5 | 129 | 18 | ASU Maintenance Garage | New Style | Brick | Clay | 6/22/2017 | | | | Material Deposition on Bench | Deteriorated | Grout/Coat Entire Manhole & Manhole Adjusted on 6/22/2017 | |
| 5 | 130 | 18 | 2713 Pawnee St | Light | Brick | Clay | 6/22/2017 | | | | Material Deposition on Bench | Deteriorated | Grout/Coat Entire Manhole | |
| 5 | 131 | 18 | Pawnee St | Heavy | Brick | Concrete | 6/22/2017 | | | | Material Deposition on Bench | Deteriorated | Need asphalt around ring. Walls haven't been coated. | |
| 5 | 132 | 18 | 2713 Pawnee St | Heavy | Brick | Clay | 6/22/2017 | | Broken | | Material Deposition on Bench | | | |
| 5 | 133 | 18 | Iroquois St/Pawnee St | Heavy | Brick | Clay | 6/22/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 140 | 18 | Pawnee St | Heavy | Brick | Clay | 6/26/2017 | | | | Material Deposition on Bench | | | 9/18/2017 |
| 5 | 143 | 18 | Aggie Rd/Red Wolf Blvd | Heavy | Brick | Concrete | 6/26/2017 | | Broken | | Material Deposition on Bench | Deteriorated | | |
| 5 | 146 | 18 | ASU Baseball Field (south side) | Light | Precast | Concrete | 6/26/2017 | | Broken | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 147 | 18 | ASU Baseball Field (southwest corner) | Light | Precast | Clay | 6/26/2017 | | | | | Leaking Joints | | |
| 5 | 149 | 18 | ASU Baseball Field (East side close to Red Wolf Blvd) | Heavy | Precast | Clay | 6/26/2017 | | | | Material Deposition on Bench | | | 9/15/2017 |
| 5 | 151 | 18 | Red Wolf Blvd (Convocation Center sign) | Heavy | Precast | Concrete | 6/26/2017 | | | | Material Deposition on Bench | | | 9/15/2017 |
| 5 | 152 | 18 | Convocation Center | New Style | Precast | Clay | 6/23/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 5 | 154 | 18 | Olympic Dr (Convocation Center Lot C) | Heavy | Precast | Concrete | 6/23/2017 | | | | | Leaking/Evidence of Leaking | | |
| 5 | 158 | 18 | Red Wolf Blvd (40' south of Convocation Center sign) | Heavy | Precast | Clay | 6/26/2017 | | Broken | | Material Deposition on Bench | | | |
| 5 | 159 | 18 | 218 Olympic Dr | Heavy | Precast | Clay | 6/26/2017 | | | | Material Deposition on Bench | Leaking Joints | | 9/15/2017 |
| 5 | 160 | 18 | Alumni Blvd/Red Wolf Blvd | Heavy | Precast | Concrete | 6/23/2017 | | | | Material Deposition on Bench | | | 9/18/2017 |
| 5 | 161 | 18 | ASU Football Stadium/First Care | Heavy | Precast | Concrete | 6/23/2017 | Raise 1" | | Deteriorated | Material Deposition on Bench/Pipe Penetrations Leaking | Roots | | |
| 5 | 163 | 18 | 2720 Olympic Dr | Light | Precast | Concrete | 6/23/2017 | | Broken | Offset | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 5 | 164 | 18 | Alumni Blvd/Olympic Dr | Light | Precast | Clay | 6/23/2017 | | | Deteriorated | Material Deposition on Bench | Leaking/Evidence of Leaking | | |

Notes:

(1) Octo= Octocreted, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|---|-----------|----------------------|----------------|----------------|-----------------|----------------|-----------------------------|---|--|--|----------------|
| 5 | 166 | 18 | Alumni Blvd | Light | Precast | Concrete | 6/26/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 169 | 18 | Aggie Rd/Red Wolf Blvd | Heavy | Brick | Clay | 8/16/2017 | | | | | | Inspected by CCTV. Manhole under asphalt - need to jackhammer & raise. | |
| 5 | 350 | 18 | 815 Sylvan Hill Dr | New Style | Precast | Concrete | 8/18/2017 | | | | | | Manhole Smoked, needs to be octocreted | 7/11/2017 |
| 5 | 352 | 18 | 912 Willow Oak Cir | New Style | Precast | Concrete | 8/19/2017 | | | | | | Manhole Smoked, needs to be octocreted | 9/6/2017 |
| 5 | 358 | 18 | 2003 Greensboro Rd | New Style | Precast | Concrete | 6/14/2017 | | | Offset | Material Deposition on Bench | | | |
| 5 | 359 | 18 | 1008 Ransom Dr | New Style | Precast | Concrete | 5/3/2017 | | | | | Leaking/Evidence of Leaking | Need to octocrete around wall to floor joining on north side | |
| 5 | 365 | 18 | 201 Olympic Dr | New Style | Poured In Place | Concrete | 6/23/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | Manhole Adjusted on 2/8/2017 | |
| 5 | 367 | 18 | 106 University East Loop | New Style | Poured In Place | Concrete | 6/23/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 5 | 377 | 18 | University Loop East (across road from 910) | Heavy | Brick | | 8/15/2017 | | | Offset/Deteriorated/Cracked | Deteriorated Bench/Missing | | Needs cleaned, octocreted, new ring & lid. Needs total rehab. | |
| 5 | 378 | 18 | 104 University East Loop | New Style | Poured In Place | Concrete | 6/23/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 5 | 379 | 18 | 106 University East Loop | New Style | Precast | Concrete | 6/23/2017 | Raise 2" | | | Material Deposition on Bench | | | |
| 5 | 386 | 18 | Danner Ave | New Style | Brick | Clay | 6/26/2017 | | | | Material Deposition on Bench | Cracked/Deteriorated/Leaking/Evidence of Leaking | Grout/Coat Entire Manhole Ring & lid have both been hit by bushhog. Needs new ring & lid. Ring is also loose. Needs T-Post beside manhole. | |
| 5 | 570 | 18 | 2021 Belt St | New Style | Poured In Place | Concrete | 5/19/2017 | | Broken | | | | | |
| 5 | 612 | 18 | 804 Alex Cv | New Style | Poured In Place | Concrete | 5/19/2017 | | | Offset | Material Deposition on Bench | | | |
| 5 | 622 | 18 | 125 Dean St | Light | Poured In Place | Concrete | 6/22/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 625 | 18 | 120 Caraway Rd | Light | Poured In Place | Concrete | 6/29/2017 | | | | Material Deposition on Bench/Invert Flow Issues | Leaking/Evidence of Leaking | | |
| 5 | 626 | 18 | 120 Caraway Rd | Light | Poured In Place | Concrete | 6/29/2017 | | | | Material Deposition on Bench | Roots | | |
| 5 | 629 | 18 | Caraway Rd/Shelton ST | New Style | Brick | Clay | 6/22/2017 | | | Cracked | Material Deposition on Bench | | A lot of rocks on bench | |
| 5 | 650 | 18 | Caraway Rd (ASU Parking Garage-East side) | Light | Precast | Concrete | 6/29/2017 | | | Offset | | | | |

Notes:

(1) Octo= Octocreted, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|--------------------------|-----------|----------------------|----------------|----------------|-----------------|----------------|--------------|---|--|---|----------------|
| 5 | 651 | 18 | 121 Caraway Rd | Heavy | Precast | Concrete | 6/22/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | 2/15/2017 |
| 5 | 654 | 18 | 2611 Cherokee St | Light | Poured In Place | Concrete | 6/21/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | Manhole Adjusted on 2/7/2017 | |
| 5 | 658 | 18 | Alumni Blvd | New Style | Precast | Concrete | 6/26/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 660 | 18 | 2626 U St | New Style | Precast | Concrete | 6/26/2017 | Raise 2" | | | Material Deposition on Bench | | | |
| 5 | 665 | 18 | 2106 Johnson Av | New Style | Precast | Concrete | 6/16/2017 | | | Offset | | Leaking Joints/Leaking/Evidence of Leaking | | |
| 5 | 666 | 18 | 2705 Iroquois St | New Style | Precast | Concrete | 6/22/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 668 | 18 | 2717 Iroquois St | New Style | Precast | Concrete | 6/22/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 670 | 18 | 2723 Iroquois St | New Style | Precast | Concrete | 6/22/2017 | | | | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | | |
| 5 | 676 | 18 | 2807 Quapaw St | New Style | Precast | Concrete | 6/21/2017 | | | | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | | |
| 5 | 677 | 18 | 2807 Quapaw St | New Style | Precast | Concrete | 6/21/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 684 | 18 | 114 University Loop West | New Style | Precast | Concrete | 8/16/2017 | | | | | | ASU manhole. Need to cut rest of plywood from under ring that contractor left in manhole & octocrete ring adjustment. | |
| 5 | 688 | 18 | 2105 Cooley Dr | Heavy | Brick | Concrete | 6/19/2017 | | | | Material Deposition on Bench | | ASU manhole | |
| 5 | 689 | 18 | 2717 Iroquois St | New Style | Precast | Concrete | 6/22/2017 | | | | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | | |
| 5 | 690 | 18 | 2108 Aggie Rd | Heavy | Brick | Clay | 6/19/2017 | | | | Material Deposition on Bench | Cracked | ASU manhole. No ring. Outside needs to be reconnected. | |
| 5 | 691 | 18 | 2108 Aggie Rd | | Brick | Clay | 6/26/2017 | | | | Material Deposition on Bench | Leaking Joints | ASU manhole. Homemade steel lid on a square manhole. | |
| 5 | 692 | 18 | 2208 Aggie Rd | Light | Precast | Concrete | 6/23/2017 | | | Deteriorated | Material Deposition on Bench/Invert Flow Issues | | ASU manhole | |
| 5 | 693 | 18 | Dean St | Light | Brick | Concrete | 6/26/2017 | | | | Material Deposition on Bench | Deteriorated | ASU manhole | |
| 5 | 695 | 18 | 319 University West Loop | New Style | Precast | Concrete | 6/19/2017 | | | Offset | Material Deposition on Bench | | ASU manhole | |
| 5 | 696 | 18 | 319 University West Loop | New Style | Precast | Concrete | 6/19/2017 | Raise 1" | | | Material Deposition on Bench/Invert Flow Issues | | ASU manhole | |

Notes:

(1) Octo= Octocrete, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|--------------------------|-----------|----------------------|----------------|----------------|-----------------|----------------|----------------------|---|--|---|----------------|
| 5 | 697 | 18 | 319 University West Loop | Light | Precast | Concrete | 6/19/2017 | | | | Material Deposition on Bench | | Ring is loose | |
| 5 | 699 | 18 | ASU Wilson Hall | Heavy | Brick | Clay | 6/21/2017 | | | | Material Deposition on Bench | | ASU manhole | |
| 5 | 700 | 18 | 500 N. Caraway Rd | Heavy | Precast | Concrete | 6/14/2017 | | | | | Leaking/Evidence of Leaking | | |
| 5 | 701 | 18 | 500 N. Caraway Rd | Heavy | Precast | Concrete | 6/14/2017 | | | Cracked | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 702 | 18 | 500 N. Caraway Rd | Heavy | Precast | Concrete | 6/18/2017 | | | | Invert Flow Issues | | | |
| 5 | 703 | 18 | 500 N. Caraway Rd | Heavy | Precast | Concrete | 6/14/2017 | | | | Invert Flow Issues | | | |
| 5 | 704 | 18 | 500 N. Caraway Rd | New Style | Precast | Concrete | 6/14/2017 | | | | Pipe Penetrations Leaking | Roots | | |
| 5 | 705 | 18 | 500 N. Caraway Rd | New Style | Precast | Concrete | 6/14/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 707 | 18 | N. Caraway Rd/Belt St | New Style | Poured In Place | Clay | 5/19/2017 | | | | Material Deposition on Bench | Leaking Joints | Leaking at joint where wall meets bench on south wall beside main | |
| 5 | 712 | 18 | Banks St | Light | Brick | Concrete | 6/28/2017 | | | Deteriorated | | | | |
| 5 | 128 A | 18 | 2713 Pawnee St | New Style | Precast | Concrete | 6/20/2017 | | | | Material Deposition on Bench | Roots/Leaking/Evidence of Leaking | | 9/18/2017 |
| 5 | 148 A | 18 | 201 Olympic Dr | Light | Brick | Concrete | 6/23/2017 | | | Offset | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 5 | 148 B | 18 | 102 University East Loop | Light | Precast | Concrete | 6/23/2017 | | Broken | Deteriorated/Cracked | | Lifting Hole/Leaking/Evidence of Leaking | | |
| 5 | 16 A | 18 | 2713 Iroquois St | New Style | Precast | Concrete | 6/20/2017 | | | Deteriorated/Cracked | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 5 | 35 A | 18 | 104 Driver St | New Style | Precast | Clay | 6/20/2017 | | | Offset | Material Deposition on Bench | | | |
| 5 | 35 B | 18 | 104 Driver | Heavy | Poured In Place | Concrete | 8/15/2017 | | | | | | Inspected by CCTV. Manhole under sidewalk - need to jackhammer & raise. | |
| 5 | 35 C | 18 | 114 Driver St | Heavy | Brick | Concrete | 6/20/2017 | | | | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 5 | 35 D | 18 | 114 Driver St | Light | Brick | Concrete | 6/20/2017 | | | | Material Deposition on Bench | Cracked | Grout/Coat Entire Manhole | |
| 5 | 38 B | 18 | 2410 Aggie Rd | Light | Precast | Concrete | 6/28/2017 | | | Deteriorated | | Leaking Joints/Evidence of Leaking | | |
| 5 | 38 F | 18 | Danner Ave | New Style | Poured In Place | Clay | 6/23/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Square manhole | |
| 5 | 38 G | 18 | Banks St | New Style | Brick | Clay | 6/28/2017 | | | | Material Deposition on Bench | | Square manhole | |
| 5 | 40 A | 18 | Lee Dr | Light | Precast | Concrete | 6/28/2017 | | | | Material Deposition on Bench | | ASU manhole | |
| 5 | 41 A | 18 | Danner Ave | Light | Brick | Concrete | 6/28/2017 | | Broken | | Material Deposition on Bench/Invert Flow Issues | | | |

Notes:

(1) Octo= Octocreted, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|---------------------------|-----------|----------------------|----------------|----------------|-----------------|----------------|--------------|--|--|---|----------------|
| 5 | 55 A | 18 | 820 University East Loop | Light | Brick | Concrete | 6/20/2017 | | | | Material Deposition on Bench | Cracked/Deteriorated | ASU Manhole | |
| 4 | 318 | 32 | 1803 Greens Point Cv | New Style | Precast | Concrete | 6/13/2017 | | | | Material Deposition on Bench/Pipe Penetrations Leaking | Roots/Leaking/Evidence of Leaking | Roots coming in through lateral and around lateral | |
| 4 | 320 | 32 | 1909 Lark Dr | New Style | Precast | Concrete | 6/8/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | | |
| 4 | 321 | 32 | 1206 Dove Rd | New Style | Precast | Concrete | 6/8/2017 | | | | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | | |
| 4 | 322 | 32 | 1202 Dove Rd | New Style | Precast | Concrete | 6/8/2017 | | | | Invert Flow Issues | Leaking Joints | | |
| 4 | 323 | 32 | 1106 Dove Rd | New Style | Precast | Concrete | 6/8/2017 | | | Offset | | Leaking Joints/Leaking/Evidence of Leaking | | |
| 4 | 324 | 32 | Lot north of 1102 Dove Rd | New Style | Precast | Concrete | 6/8/2017 | | | | | Roots | Roots also on bench of manhole | |
| 4 | 329 | 32 | 1706 Bittle St | Light | Precast | Concrete | 6/13/2017 | | | | Material Deposition on Bench/Pipe Penetrations Leaking | Roots | | |
| 4 | 335 | 32 | 1730 E. Highland Dr | Light | Poured In Place | Concrete | 6/14/2017 | | | | Invert Flow Issues | | | |
| 4 | 336 | 32 | 1406 Marketplace Dr | Light | Precast | Concrete | 6/12/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 4 | 338 | 32 | 1730 E. Highland Dr | Light | Poured In Place | Concrete | 6/14/2017 | | | | Material Deposition on Bench | Pipe Penetrations Leaking | | |
| 4 | 345 | 32 | 1702 Hazelwood Ct | Light | Precast | Concrete | 6/13/2017 | | | | Invert Flow Issues | | | |
| 4 | 354 | 32 | 1341 Red Wolf Blvd | New Style | Precast | Concrete | 6/7/2017 | | | | | Leaking Joints/Leaking/Evidence of Leaking | | |
| 4 | 357 | 32 | 1341 Red Wolf Blvd | New Style | Precast | Concrete | 6/7/2017 | | | Offset | | | | |
| 4 | 370 | 32 | 1709 E Nettleton Ave | Heavy | Brick | Clay | 6/9/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 4 | 371 | 32 | 1709 E Nettleton Ave | Heavy | Brick | Concrete | 6/9/2017 | | | | Material Deposition on Bench | Cracked | Concrete has fallen off the walls in several spots. Concrete around lid is also broken & missing. | |
| 4 | 372 | 32 | 2400 E Nettleton Ave | Heavy | Brick | Clay | 6/8/2017 | | | | Material Deposition on Bench | Cracked | | |
| 5 | 418 | 17 | Aggie Rd/Stella Dr | New Style | Poured In Place | Concrete | 6/30/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | Ring and Lid Replaced 2/13/2017 | |
| 5 | 187 | 17 | Aggie Rd/Cater Dr | New Style | Precast | Clay | 6/30/2017 | | | Deteriorated | Material Deposition on Bench | | | 9/5/2017 |
| 5 | 431 | 17 | 3500 Aggie Rd | New Style | Poured In Place | Concrete | 6/30/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 4 | 374 | 32 | 1616 Cooper Ln | Heavy | Brick | Concrete | 6/12/2017 | | | | Material Deposition on Bench | | Broken pieces of invert pipe | |

Notes:

(1) Octo= Octocreted, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|--|-----------|----------------------|----------------|----------------|-----------------|----------------|----------------------|--|--|---|----------------|
| 4 | 376 | 32 | 811 Caraway Rd | Heavy | Brick | Concrete | 6/8/2017 | | | | Material Deposition on Bench | Leaking Joints/Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 4 | 377 | 32 | 1001 Caraway Rd | New Style | Brick | Concrete | 6/8/2017 | | | | Material Deposition on Bench/Pipe Penetrations Leaking | Leaking Joints/Leaking/Evidence of Leaking | Grout/Coat Entire Manhole | |
| 4 | 378 | 32 | 1101 Caraway Rd | Light | Brick | Clay | 6/8/2017 | | | | Material Deposition on Bench/Deteriorated Bench/Missing/Invert Flow Issues | | Grout/Coat Entire Manhole | |
| 5 | 57 C | 18 | Danner Ave | Light | Poured In Place | Concrete | 6/23/2017 | Raise 1" | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 179 | 17 | 3905 Aggie Rd | New Style | Brick | Clay | 7/3/2017 | | | | Material Deposition on Bench/Invert Missing | | | |
| 5 | 61 B | 18 | 2713 Pawnee St | New Style | Precast | Clay | 8/18/2017 | | | Deteriorated/Cracked | | | Need to octoconcrete ring. | |
| 1 | 299 | 17 | Oak Hill Ln | Light | Precast | Concrete | 3/1/2017 | | | | Deteriorated Bench/Missing | Deteriorated | Sunset Hills lift station force main dumps into manhole | |
| 5 | 419 | 17 | Aggie Rd/Stella Dr | New Style | Poured In Place | Concrete | 3/1/2017 | | | | | Deteriorated | Hereford Dr lift station force main dumps into manhole. | |
| 6 | 520 | 32 | Stallings Ln/Caraway Rd | Heavy | Brick | Clay | 6/30/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 5 | 62 A | 18 | ASU Agricultural Building (Old Caraway Rd) | New Style | Brick | Concrete | 6/21/2017 | | | | Material Deposition on Bench | Cracked | Grout/Coat Entire Manhole | |
| 6 | 521 | 32 | 906 Caraway Rd | Heavy | Brick | Clay | 6/8/2017 | | | | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 5 | 207 | 17 | 200 N. Hunter Ln | Heavy | Precast | Clay | 8/15/2017 | | | | | | Inspected by CCTV. Manhole covered up in driveway - need to jackhammer & raise. | |
| 5 | 629 A | 18 | 121 Caraway Rd | Light | Poured In Place | Concrete | 6/22/2017 | | | | | Lifting Hole/Leaking/Evidence of Leaking/Pipe Penetrations Leaking | | |
| 6 | 522 | 32 | Stallings Ln/Caraway Rd | Heavy | Brick | Clay | 6/30/2017 | | | | Material Deposition on Bench/Invert Flow Issues | | | |
| 4 | 135 A | 32 | 2506 E Nettleton Ave | New Style | Poured In Place | Clay | 6/7/2017 | | | | Pipe Penetrations Leaking | | | |
| 4 | 151 A | 32 | 1420 Caraway Rd | Heavy | Brick | Clay | 6/30/2017 | | Broken | Cracked | Material Deposition on Bench | | | |
| 4 | 94 B | 32 | 1419 Larkwood Dr | Heavy | Brick | Concrete | 6/13/2017 | | | | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 5 | 64 A ? | 18 | 119 University West Loop | Heavy | Precast | Concrete | 6/19/2017 | | | | Material Deposition on Bench | Leaking/Evidence of Leaking | ASU Manhole | |
| 5 | 65 A | 18 | 114 University West Loop | Heavy | Precast | Concrete | 6/19/2017 | Raise 1" | | | Material Deposition on Bench | | | |

Notes:

(1) Octo= Octoconcreted, MH= Manhole

2017 SSES Manhole Resultant Repair Report

| Mini System | Manhole # | JB # | Location | Lid Type | Manhole Construction | Manhole Invert | Date Inspected | Inches to Raise | Ring Condition | Ring Seal | Lower 18" Problem | Wall Condition Problem | Comments | Date of Repair |
|-------------|-----------|------|--------------------------|-----------|----------------------|----------------|----------------|-----------------|----------------|-----------|---|-----------------------------|---|----------------|
| 5 | 65 B | 18 | 114 University West Loop | Heavy | Brick | Concrete | 6/19/2017 | | | | Material Deposition on Bench | | Manhole 5/65B is 215' from manhole 5/65A, not 132' | |
| 5 | 76 A | 18 | 2108 Dean St | Heavy | Brick | Concrete | 6/19/2017 | | | | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 4 | 94 C | 32 | 1405 Larkwood Dr | Heavy | Precast | Concrete | 6/13/2017 | | | | Material Deposition on Bench/Invert Missing | | | |
| 4 | no # | 32 | 2311 E Nettleton Ave | Heavy | Brick | Concrete | 6/8/2017 | | | | Material Deposition on Bench | Cracked | Manhole # not on map. Between manhole #4/372 & 4/138 | |
| 5 | no # | 18 | 504 University West Loop | Heavy | Brick | Concrete | 6/19/2017 | | | Cracked | Material Deposition on Bench | | Grout/Coat Entire Manhole | |
| 5 | no # | 18 | ASU Dean B Ellis Library | Heavy | Brick | Clay | 6/21/2017 | | | | Material Deposition on Bench | | ASU manhole. No manhole # on CAD, between 5/695 & 5/698 | |
| 5 | 219 | 17 | ASU Farm | Light | Precast | Clay | 8/20/2017 | | | | | | Manhole Smoked, needs to be octocreted | 9/19/2017 |
| 5 | 218 | 17 | ASU Farm | Light | Precast | Concrete | 8/21/2017 | | | | | | Manhole Smoked, needs to be octocreted | 9/19/2017 |
| 5 | 221 | 17 | ASU Farm | Light | Precast | Concrete | 8/22/2017 | | | | | | Manhole Smoked, needs to be octocreted | 9/19/2017 |
| 5 | 336 | 17 | ASU Farm | New Style | Precast | Concrete | 8/23/2017 | | | | | | Manhole Smoked, needs to be octocreted | 9/19/2017 |
| 5 | 337 | 17 | ASU Farm | New Style | Precast | Concrete | 8/24/2017 | | | | | | Manhole Smoked, needs to be octocreted | 9/19/2017 |
| 5 | 338 | 17 | ASU Farm | New Style | Precast | Concrete | 8/25/2017 | | | | | | Manhole Smoked, needs to be octocreted | 9/19/2017 |
| 5 | 255 | 17 | Toni Ann Dr/Burdyshaw Dr | Light | Precast | Concrete | 8/26/2017 | | | | | | Manhole Smoked, needs to be octocreted | 9/20/2017 |
| 5 | 254 | 17 | Toni Ann Dr/Burdyshaw Dr | Light | Precast | Concrete | 8/27/2017 | | | | | | Manhole Smoked, needs to be octocreted | 9/20/2017 |
| 5 | 258 | 17 | Toni Ann Dr/Burdyshaw Dr | Light | Precast | Concrete | 8/28/2017 | | | | | | Manhole Smoked, needs to be octocreted | 9/20/2017 |
| 5 | 257 | 17 | Toni Ann Dr/Burdyshaw Dr | Light | Precast | Concrete | 8/29/2017 | | | | | | Manhole Smoked, needs to be octocreted | 9/20/2017 |
| 4 | no # | 32 | 1304 Robin Rd | Heavy | Brick | Concrete | 6/9/2017 | | | | Deteriorated Bench/Missing/Invert Missing | Leaking/Evidence of Leaking | Manhole # not on map. Between 4/195 & 4/193 | |

Notes:

(1) Octo= Octocreted, MH= Manhole

2016 SSES Manhole Resultant Repair Report

| Mini System | JB # | Manhole # | Street Number | St Dir | Street Name | Lid Type | MH Construction | MH Floor Construction | Ticket | Date of Ticket | Comments on Ticket (1) | Repair Type | Date of Repair |
|-------------|------|-----------|---------------|--------|------------------------------------|-----------|-----------------|-----------------------|------------|----------------|---------------------------------------|-------------|----------------|
| 07 | 7 | 18 | 1916 | | Brookhaven Rd | New Style | Brick | Clay | Needs work | 9/19/2016 | Needs top to bottom octo | octo | 2/2/2017 |
| 07 | 7 | 51 | 1421 | | Locust Dr | New Style | Brick | Clay | octo | 10/4/2016 | octo ring | octo | 10/4/2016 |
| 07 | 7 | 79 | 2318 | | Redbud Dr. | New Style | Precast | Clay | octo | 9/16/2016 | octo ring | octo | 9/16/2016 |
| 07 | 7 | 128 | 1704 | | Broadmoor Rd | Light | Poured in Place | Clay | octo | 6/7/2016 | octo pipes in mh | octo | 6/7/2016 |
| 7 | 26 | 185 | 202 | E | STROUD ST | Heavy | Precast | Clay | octo | 5/11/2016 | octo brick adjustment | octo | 5/11/2016 |
| 7 | 26 | 208 | | | GREENBRIAR DR & WILDWOOD CT | New Style | Precast | Clay | octo | 5/16/2016 | octo leak | octo | 5/16/2016 |
| 7 | 26 | 432 | 2011 | | CULBERHOUSE | | | | octo | 5/10/2016 | octo ring | octo | 5/10/2016 |
| 7 | 26 | 448 | | | MELTON & S. CULBERHOUSE | Heavy | Poured in Place | Clay | octo | 5/16/2016 | octo leak | octo | 5/16/2016 |
| 7 | 26 | 451 | 2811 | S | CULBERHOUSE ST | Light | Brick | Clay | maint. | 5/11/2016 | replaced ring and lid | maint | 5/11/2016 |
| 7 | 26 | 467 | | | PINECREST DR | Heavy | Poured in Place | Clay | octo | 5/16/2016 | octo leak | octo | 5/16/2016 |
| 8 | 25 | 23 | 1901 | | SCENIC RD | Heavy | Brick | Clay | Needs work | 9/14/2016 | Needs spin casted | | |
| 8 | 25 | 38 | 2737 | | Paula | New Style | Precast | Concrete | octo | 9/12/2016 | octo ring | octo | 9/12/2016 |
| 8 | 25 | 39 | | | PARKER RD & CAROLYN DR | Heavy | Precast | Clay | octo | 9/19/2016 | octo mh | octo | 9/19/2016 |
| 8 | 25 | 51 | 1810 | | CATHARINE DR | Light | Precast | Clay | octo | 4/22/2016 | octo leaks | octo | 4/22/2016 |
| 8 | 25 | 60 | 2508 | | RANKIN DR | Light | Precast | Clay | octo | 4/1/2016 | | octo | 4/1/2016 |
| 8 | 25 | 79 | 2704 | | RANKIN DR | Heavy | Precast | Clay | maint. | 4/22/2016 | removed debris | main. | 4/22/2016 |
| 8 | 25 | 86 | 2607 | | RANKIN DR | Light | Brick | Clay | Needs work | | Needs wall repaired | | |
| 8 | 25 | 89 | 2510 | | HIDDEN HILL CIR (REAR OF PROPERTY) | New Style | Precast | Clay | octo | 4/4/2016 | octo outside mh | octo | 4/4/2016 |
| 8 | 24 | 138 | 1716 | | COVEY DR | Heavy | Brick | Clay | Needs work | | Needs floor repaired | | |
| 8 | 24 | 143 | 2935 | | WOOD ST | Heavy | Brick | Clay | octo | 5/1/2016 | reset ring/octo | octo | 5/1/2016 |
| 8 | 24 | 145 | 2932 | | WOOD ST | New Style | Precast | Clay | Needs Work | | Needs ring resealed | | |
| 8 | 24 | 155 | | | NEELY RD & TURTLE CREEK RD | Heavy | Brick | Clay | Needs work | | Needs floor repaired | | |
| 8 | 24 | 163 | 3202 | | SPRINGWOOD DR | New Style | Precast | Clay | Needs Work | | Needs wall repaired | | |
| 8 | 24 | 171 | 1904 | | OAKWOOD CIR | New Style | Precast | Clay | octo | 10/5/2016 | octo chimney/ring | octo | 10/5/2016 |
| 8 | 24 | 182 | 1708 | | DEERWOOD DR | Heavy | Precast | Clay | octo | 4/4/2016 | ocoto outside mh | octo | 4/4/2016 |
| 8 | 24 | 184 | 3114 | | ASPEN DR | New Style | | | Needs Work | 9/19/2016 | Needs octo around upstream inlet pipe | | |
| 8 | 24 | 191 | 3110 | | ASHWOOD DR | New Style | Precast | Clay | Needs Work | | Needs ring repaired | | |
| 8 | 25 | 210 | 1813 | | COLONIAL RD | Heavy | Brick | Clay | Needs Work | | Needs ring repaired | | |
| 8 | 25 | 231 | 2617 | | WOODSPRINGS RD | Light | Precast | Clay | octo | 10/4/2016 | octo ring | octo | 10/4/2016 |
| 8 | 25 | 232 | 2617 | | WOODSPRINGS RD | Light | Precast | Clay | octo | 10/4/2016 | octo ring/donuts | octo | 10/4/2016 |
| 8 | 25 | 233 | 2701 | | RANKIN DR | Light | Precast | Clay | octo | 10/4/2016 | octo ring/top cone | octo | 10/4/2016 |
| 8 | 25 | 234 | | | Nix Ln. - Backyard | New Style | Precast | Clay | Needs Work | 9/19/2016 | Needs joints and ring octo | | |
| 8 | 25 | 236 | 2700 | | NIX LN | New Style | Precast | Clay | octo | 4/21/2016 | octo joints | octo | 4/21/2016 |
| 8 | 25 | 238 | 2605 | | Nix Ln. - REAR | New Style | Precast | Clay | maint. | 4/22/2016 | new riser/lid | main. | 4/22/2016 |
| 8 | 25 | 243 | 2602 | | Nix Ln. - north of circle drive | New Style | Precast | Clay | raise | 4/19/2016 | install 2" riser | raise | 4/19/2016 |
| 8 | 25 | 245 | 2302 | | RUSHER LN | Light | | | octo | 4/28/2016 | octo mh | octo | 4/28/2016 |

Notes:

(1) Octo= Octocreted, MH= Manhole

2016 SSES Manhole Resultant Repair Report

| Mini System | JB # | Manhole # | Street Number | St Dir | Street Name | Lid Type | MH Construction | MH Floor Construction | Ticket | Date of Ticket | Comments on Ticket (1) | Repair Type | Date of Repair |
|-------------|------|-----------|---------------|--------|------------------------------|-----------|-----------------|-----------------------|------------|----------------|--|-------------|----------------|
| 8 | 24 | 345 | 2104 | | TURTLE CREEK DR | New Style | Precast | Clay | octo | 3/1/2016 | octo joint & stubout | octo | 3/1/2016 |
| 8 | 25 | 247 | 2500 | | Rusher Ln. | New Style | Precast | Clay | Needs Work | 9/14/2016 | Needs main and laterals octo | octo | 2/22/2017 |
| 8 | 24 | 250 | 2301 | | PAULA DR | New Style | Precast | Clay | Needs Work | 9/19/2016 | Needs joints and ring octo | octo | 7/12/2017 |
| 8 | 24 | 252 | 2401 | | PAULA DR | New Style | Precast | Clay | octo | 3/30/2016 | octo leak | octo | 3/30/2016 |
| 8 | 24 | 255 | 2002 | | CHERRYWOOD DR | New Style | Precast | Clay | octo | 3/3/2016 | octo mh | octo | 3/3/2016 |
| 8 | 24 | 260 | 2003 | | VAIL DR | New Style | Precast | Clay | Needs Work | 9/19/2016 | Needs joints octo | | |
| 8 | 24 | 263 | | | NEELY LN & VILLAGE DR | Light | Precast | Clay | octo | 3/7/2016 | octo mh | octo | 3/7/2016 |
| 8 | 24 | 271 | 3402 | | TURTLE CREEK RD | Light | Precast | Clay | octo | 3/1/2016 | octo joint & stubout | octo | 3/1/2016 |
| 8 | 24 | 274 | 2205 | | QUAIL RIDGE RD | New Style | Precast | Clay | raise | 7/29/2016 | install 3" riser | raise | 7/29/2016 |
| 8 | 24 | 289 | 3207 | | VAIL CV | New Style | Precast | S | Needs Work | | Needs floor repaired | | |
| 8 | 25 | 298 | 1903 | | CATHARINE DR | New Style | Precast | Clay | Needs Work | | Needs wall repaired | | |
| 8 | 25 | 66 | 2601 | | TURTLE CREEK RD | Light | Precast | Clay | octo | 4/1/2016 | octo leak in mh | octo | 4/1/2016 |
| 8 | 25 | 300 | 2002 | | CATHARINE DR | New Style | Precast | Clay | octo | 4/1/2016 | octo leaks in mh | octo | 4/1/2016 |
| 8 | 25 | 307 | 2017 | | CATHARINE DR | New Style | Precast | Clay | Needs Work | | Needs ring seal repaired | | |
| 8 | 24 | 312 | 1612 | | ROLESON LN | New Style | Precast | Clay | Needs work | 9/19/2016 | Needs Joints and Ring octo and ring moved over | octo | 2/16/2017 |
| 8 | 24 | 319 | 3414 | | QUAIL RIDGE RD | New Style | Precast | Clay | octo | 3/2/2016 | octo joints & s/o in mh | octo | 3/2/2016 |
| 8 | 24 | 340 | 2002 | | VILLAGE DR | New Style | Poured in Place | | octo | 3/17/2016 | octo mh | octo | 3/17/2016 |
| 8 | 24 | 347 | | | PAULA DR & NIX LAKE DR | New Style | Poured in Place | PLASTIC/CLAY | Needs work | 9/19/2016 | Needs ring and lid octo | | |
| 8 | 25 | 352 | 2701 | | Nix Lake | New Style | Precast | Clay | Needs work | 9/14/2016 | needs joint and ring and lid octo (Possibly 8/353) | octo | 2/21/2017 |
| 8 | 24 | 368 | 2608 | | MINX LN | New Style | Precast | Clay | octo | 3/17/2016 | octo mh | octo | 3/17/2016 |
| 8 | 25 | 308 | 2022 | | CATHARINE DR | New Style | Poured in Place | Clay | Needs work | | Needs wall repaired | | |
| 8 | 24 | 400 | | | SOUTHWEST DR & CANDLEWOOD DR | New Style | Poured in Place | Clay | Needs work | | Needs wall repaired | | |
| 8 | 24 | 405 | | | Quail Dr. - Backlot | New Style | Poured in Place | Clay | Needs work | | Needs floor repaired | | |
| 8 | 24 | 420 | 3414 | | QUAIL RIDGE RD | New Style | Poured in Place | Clay | octo | 3/2/2016 | octo joints in mh | octo | 3/2/2016 |
| 8 | 24 | 421 | 3407 | | QUAIL RIDGE RD | New Style | Precast | Clay | Needs Work | 9/19/2016 | Needs joints and ring octo | octo | 9/8/2017 |
| 8 | 24 | 427 | 2516 | | EVIE LN | New Style | Poured in Place | Clay | Needs Work | | Needs lid replaced | | |
| 8 | 26 | 310 | 501 | W | HIGHLAND DR | New Style | Precast | Clay | octo | 5/5/2016 | octo leaks | octo | 5/5/2016 |
| 8 | 24 | 528 | | | PEBBLE CREEK PL | New Style | Poured in Place | Clay | Needs Work | | Needs lid replaced | | |
| 8 | 25 | 551 | 2102 | | SRPING HOLLOW DR | New Style | Poured in Place | Clay | maint. | 4/8/2016 | tight riser screws | main. | 4/8/2016 |
| 8 | 24 | 564 | 2902 | | HIGHMEADOW DR | Light | Precast | Clay | Needs Work | | Needs ring seal repaired | | |
| 8 | 24 | 577 | 2811 | | TOWER PARK DR | New Style | Poured in Place | Plastic | Needs Work | | Needs ring seal repaired | | |
| 8 | 25 | 593 | 2804 | | NOTTINGHAM WAY | New Style | Poured in Place | Plastic | octo | 10/4/2016 | octo donuts/ring | octo | 10/4/2016 |
| 8 | 25 | 599 | 2212 | | AUBURNDALE CV | New Style | Poured in Place | Plastic | octo | 4/21/2016 | octo leaks | octo | 4/21/2016 |
| 8 | 25 | 600 | | | AUBURNDALE CV | New Style | Poured in Place | Plastic | octo | 4/18/2016 | octo donut/ring | octo | 4/18/2016 |
| 8 | 25 | 601 | 2224 | | AUBURNDALE CV | New Style | Precast | Plastic | octo | 4/18/2016 | octo | octo | 4/18/2016 |
| 8 | 25 | 604 | 2113 | | SPRING HOLLOW DR | New Style | Poured in Place | Plastic | octo | 4/6/2016 | ocoto mh ring | octo | 4/6/2016 |

Notes:

(1) Octo= Octocreted, MH= Manhole

2016 SSES Manhole Resultant Repair Report

| Mini System | JB # | Manhole # | Street Number | St Dir | Street Name | Lid Type | MH Construction | MH Floor Construction | Ticket | Date of Ticket | Comments on Ticket (1) | Repair Type | Date of Repair |
|-------------|------|-----------|---------------|--------|--------------------------------|-----------|-----------------|-----------------------|------------|----------------|---|-------------|----------------|
| 8 | 25 | 680 | 1817 | | WOODSPRINGS RD | New Style | Precast | Plastic | octo | 4/12/2016 | octo donut/ring | octo | 4/12/2016 |
| 8 | 25 | 681 | 1817 | | WOODSPRINGS RD | New Style | Precast | Plastic | raise | 4/12/2016 | add riser on mh | raise | 4/12/2016 |
| 8 | 24 | 691 | 2610 | | SKYLINE CV | New Style | Poured in Place | Plastic | octo | 3/17/2016 | octo mh | octo | 3/17/2016 |
| 8 | 24 | 693 | 2606 | | SKYLINE CV | New Style | Poured in Place | Plastic | octo | 3/17/2016 | octo mh | octo | 3/17/2016 |
| 8 | 25 | 714 | | | DUPWE DR (SOUTH SIDE BY DITCH) | New Style | Precast | Clay | octo | 4/25/2016 | octo seams/holes | octo | 4/25/2016 |
| 8 | 25 | 820 | 2208 | | AUBURNDALE CV | New Style | Poured in Place | Plastic | octo | 4/18/2016 | octo mh donuts | octo | 4/18/2016 |
| 8 | 25 | 1047 | 2600 | | ALEXANDER DR | New Style | Precast | Plastic | raise | 4/27/2016 | raise mh 3" | raise | 4/27/2016 |
| 8 | 25 | 1048 | 2704 | | ALEXANDER DR | Light | Precast | Plastic | raise | 4/27/2016 | raise mh 8" | raise | 4/27/2016 |
| 7 | 7 | 78 | 2317 | | Redbud Dr | Light | Brick | Concrete | raise | | raise mh 3" | raise | 6/8/2017 |
| 8 | 25 | 437 | 1525 | | Overhill Dr | Heavy | Poured in Place | N/A | Needs Work | | Ring offset | | |
| 7 | 7 | 78 | 2317 | | Redbud Dr | Light | Brick | Concrete | Needs Work | | Material on Bench and Roots coming in walls | | |
| 8 | 25 | 67 | 2706 | | Turtle Creek Rd | Heavy | Brick | Clay | Needs Work | | Leaking/Evidence of Leaking | | |
| 8 | 25 | 16 | 2101 | | Rich Cv | Heavy | Brick | Concrete | Needs Work | | Roots | | |
| 8 | 24 | 532 | 2807 | | Minx Ln | New Style | Poured In Place | Concrete | Needs Work | | Lateral stubout into manhole has water leaking around it. | | |
| 8 | 25 | 617 | 2317 | | Autumn Dr | New Style | Poured In Place | Concrete | Needs Work | | Roots intruding around stubout on wall. | | |
| 8 | 25 | 1039 | 2102 | | Morningside Dr | New Style | Poured In Place | Concrete | Needs Work | | Roots | | |
| 8 | 24 | 133 | 1808 | | Covey Dr | Heavy | Brick | Concrete | Needs Work | | Wall needs octocreted under ring | | |
| 8 | 25 | 733 | 2005 | | Rosemond Ave | New Style | Precast | Concrete | Needs Work | | Lifting hole on wall has roots intruding | | |
| 8 | 25 | 695 | 2205 | | Parker Rd | New Style | Poured In Place | Concrete | Needs Work | | Roots | | |

Notes:

(1) Octo= Octocreted, MH= Manhole

Appendix F

Sewer Lateral Resultant Repairs

Customer Lateral Repairs (2017 SSES Basins)

| Address | JB # | Date Found | Description of problem | Letter to Customer | Repairs Completed |
|----------------------------------|------|------------|--|--------------------|-------------------|
| 104 Lake Dr | 17 | 7/12/2017 | Cleanout Defective | 9/11/2017 | Pending |
| 701 Airport Rd | 17 | 7/11/2017 | Cleanout Defective | 9/11/2017 | Pending |
| 209 University Dr | 17 | 7/20/2017 | Line broke at wye joint | 7/24/2017 | 8/31/2017 |
| 2712 E. Johnson Ave | 17 | 7/24/2017 | Hole in yard | 8/30/2017 | 9/18/2017 |
| 3619 Vickie Dr | 17 | 7/12/2017 | Cleanout Defective | 9/11/2017 | 9/22/2017 |
| 3713 Burdyslaw Dr | 17 | 7/12/2017 | Hole near cleanout | Not Applicable | 8/17/2017 |
| *3505 Stella Dr (ASU) | 17 | 7/14/2017 | Cleanout Defective | Not Applicable | Pending |
| *2509 Osage St (ASU) | 18 | 7/19/2017 | Cleanout Defective | Not Applicable | Pending |
| *2618 Pawnee St (ASU) | 18 | 7/20/2017 | Hole in yard | Not Applicable | Pending |
| *2311 University East Loop (ASU) | 18 | 7/20/2017 | Cleanout Defective | Not Applicable | Pending |
| *904 University East Loop (ASU) | 18 | 7/20/2017 | Hole in yard | Not Applicable | Pending |
| *2108 Aggie Rd (ASU) | 18 | 7/18/2017 | Cleanout Defective | Not Applicable | Pending |
| 301 Cedar Heights Cv | 18 | 7/17/2017 | Hole in concrete on south side of apartment | 8/29/2017 | Pending |
| 312 Melrose St | 18 | 7/17/2017 | Hole near manhole on south side of apartment | 8/29/2017 | Pending |
| 407 N. Caraway Rd | 18 | 7/10/2017 | Cleanout Defective | 9/11/2017 | Pending |
| 2200 Belt St | 18 | 7/10/2017 | Cleanout Defective | 9/12/2017 | Pending |
| 209 Russell Dr | 18 | 7/11/2017 | Cleanout Defective | 9/11/2017 | 9/22/2017 |
| 308 Russell Dr #18 | 18 | 7/11/2017 | Cleanout Defective | 9/11/2017 | 9/22/2017 |
| 700 N. Caraway Rd | 18 | 7/10/2017 | Cleanout Defective | 9/11/2017 | 9/21/2017 |
| 1206 Dana St | 32 | 7/31/2017 | Hole in sidewalk in front of house | 8/29/2017 | Pending |
| 1211 Cardinal Dr | 32 | 8/1/2017 | Hole around cleanout | 8/29/2017 | Pending |
| 1321 Stone St | 32 | 9/18/2017 | Hole in yard behind building | 9/18/2017 | Pending |
| 1600 Cooper Ln | 32 | 8/22/2017 | Cleanout broke underground | 8/22/2017 | Pending |
| 1001 S. Caraway Rd | 32 | 7/24/2017 | Hole in yard | Not Applicable | 8/14/2017 |
| 1204 Glendale St | 32 | 7/21/2017 | Cleanout Defective | 9/11/2017 | 9/20/2017 |
| 1320 Stone St | 32 | 8/1/2017 | Cleanout Defective | 8/29/2017 | 9/15/2017 |
| 1621 Montez Dr | 32 | 8/17/2017 | Cleanout Defective | 8/29/2017 | 9/12/2017 |
| 1701 Macarthur Park | 32 | 8/17/2017 | Cleanout Defective | 8/22/2017 | 9/7/2017 |
| 2020 Wilkins Ave | 32 | 8/18/2017 | Hole in asphalt & yard | 8/22/2017 | 9/15/2017 |

*ASU notified in a meeting instead of letter.

Customer Lateral Repairs (2016 SSES Basins)

| Address | JB # | Date Found | Description of problem | Letter to Customer | Repairs Completed |
|-----------------------|------|------------|---|--------------------|-------------------|
| 1106 Holly St | 7 | 7/18/2016 | holes in yard & cleanout broke | 9/12/2016 | 9/19/2016 |
| 1109 Sims Ave | 26 | 6/29/2016 | leak in culvert | 9/13/2016 | 1/19/2017 |
| 1310 Locust Dr | 7 | 7/14/2016 | hole in yard | 9/12/2016 | 2/22/2017 |
| 1400 Overhill Rd | 7 | 7/20/2016 | Hole in yard | 7/27/2016 | 8/2/2016 |
| 1406 Overhill Rd | 7 | 7/20/2016 | hole around cleanout | 9/12/2016 | 11/8/2016 |
| 1407 Smoot Dr | 25 | 7/28/2016 | Holes by cleanout. | 8/10/2016 | 4/4/2017 |
| 1416 Locust Dr | 7 | 7/14/2016 | hole by curb | 10/10/2016 | 12/1/2016 |
| 1501 Brookhaven Rd | 7 | 7/18/2016 | hole at cleanout | 9/12/2016 | 10/3/2016 |
| 1512 Broadmoor Rd | 7 | 7/18/2016 | hole in yard | 9/12/2016 | Pending |
| 1916 Brookhaven Rd | 7 | 3/31/2017 | Hole under shed | 4/3/2017 | Pending |
| 1611 Briarwood Dr | 25 | 7/14/2016 | Hole by cleanout. | 8/12/2016 | 12/15/16 |
| 1612 Dupwe Dr | 25 | 7/22/2016 | cleanout broken below ground | 10/10/2016 | 8/11/2017 |
| 1704 Smoot Dr | 25 | 7/18/2016 | Hole in yard. | 8/10/2016 | 9/19/2016 |
| 1705 Brookhaven | 7 | 7/18/2016 | hole around cleanout. | 10/10/2016 | 10/25/2016 |
| 1713 Colonial Rd | 25 | 8/10/2016 | Hole smoking near manhole on customers property | 8/12/2016 | 9/15/2016 |
| 1719 Georgia Dr | 7 | 7/19/2016 | hole around cleanout | 9/12/2016 | 10/24/2016 |
| 1733 Westwood Dr | 7 | 7/19/2016 | hole around cleanout. | 10/10/2016 | 5/10/2017 |
| 1819 Georgia Dr | 7 | 7/19/2016 | hole by curb north of driveway | 9/12/2016 | 10/13/2016 |
| 1901 Munos Ln | 25 | 7/21/2016 | Hole around cleanout. | 8/10/2016 | 9/6/2016 |
| 1601 Teresa Cir | 25 | 5/16/2017 | Hole by driveway | 5/17/2017 | Pending |
| 1912 Broadmoor Rd | 25 | 7/12/2016 | Holes around cleanout. | 8/12/2016 | Pending |
| 1927 Rosemond Ave. | 25 | 7/22/2016 | Cleanout broke. | 8/12/2016 | Pending |
| 2002 Wood St | 26 | 6/29/2016 | Cleanout broken underground. Smoke test. No dye test. Took lid off and could see it broken off lateral. | 7/5/2016 | 10/11/2016 |
| 2007 Bob White Dr | 24 | 7/29/2016 | Sewer line broke or cracked underground on north side of house. | 8/10/2016 | Pending |
| 2010 White Ln | 25 | 7/21/2016 | Hole on west side of house by sidewalk and driveway. | 8/10/2016 | 8/30/2016 |
| 2023 Lion Heart Ln | 25 | 7/7/2016 | Hole near manhole. | 8/10/2016 | 8/30/2016 |
| 2104 Munos Ln | 25 | 9/27/2016 | holes/cracks around cleanout | 10/10/2016 | 11/1/2016 |
| 2107 Tanglewood | 25 | 7/22/2016 | Drain tied to sewer. | 8/17/2016 | Pending |
| 2109 Brookway Ln | 24 | N/A | Cleanout broke into ground. | 8/12/2016 | 8/15/2016 |
| 2110 Rosemond Ave | 25 | 7/22/2016 | Holes in yard. | 8/12/2016 | 11/7/2016 |
| 2114 Greenwood St | 7 | 7/15/2016 | 2 cleanouts broke | 9/12/2016 | 4/18/2017 |
| 2117 W. Nettleton Ave | 25 | 7/28/2016 | Holes by cleanout. | 8/12/2016 | 4/4/2017 |
| 2302 Glenwood | 26 | 6/29/2016 | Hole in Yard. Dye tested hole and dye tested house. | 7/5/2016 | 7/21/2016 |

Customer Lateral Repairs (2016 SSES Basins)

| Address | JB # | Date Found | Description of problem | Letter to Customer | Repairs Completed |
|-------------------|------|------------|--|--------------------|-------------------|
| 2306 Glenwood Dr | 26 | 6/28/2016 | Hole in yard on Ridgecrest. Dye tested hole and verified with dye in cleanout. TV'd. | 7/5/2016 | Pending |
| 2317 Redbud Dr | 7 | 9/23/2016 | hole around cleanout | 10/10/2016 | 4/4/2017 |
| 2711 Paula Dr | 25 | 7/22/2016 | Hole at back of building by concrete pad. | 8/12/2016 | 5/3/2017 |
| 3105 Creekwood Dr | 24 | 7/29/2016 | Hole around cleanout - cleanout broke. | 8/10/2016 | Pending |
| 625 Melody Ln | 26 | 9/16/2016 | hole by curb | 10/10/2016 | 11/7/2016 |
| 630 Melody Lane | 26 | 6/28/2016 | Hole in yard. Dye tested hole and verified through cleanout. TV'd. | 7/5/2016 | 3/1/2017 |
| 710 Locust Dr | 26 | 7/11/2016 | hole by sidewalk | 9/13/2016 | 11/8/2016 |
| 711 Valley Dr | 26 | 7/6/2016 | Hole in yard in between house and drive. | 8/17/2016 | 10/7/2016 |
| 714 Locust | 26 | 7/11/2016 | Hole in yard by driveway and sidewalk. | 8/17/2016 | 10/3/2016 |
| 715 Sims St | 26 | 7/13/2016 | Hole in Ditch. | 8/26/2016 | 9/19/2016 |
| 716 Craighead Rd | 26 | 7/6/2016 | Hole around cleanout. | 8/17/2016 | 11/7/2016 |
| 718 Owens | 26 | 5/21/2015 | Hole in yard | Not Applicable | 3/7/2016 |
| 727 Valley Dr | 26 | 8/15/2016 | Holes in yard. | 8/26/2016 | Pending |
| 731 Crest | 26 | 7/8/2016 | Holes in yard and meter box. | 8/17/2016 | Pending |
| 731 Valley Dr | 26 | 7/6/2016 | Hole around cleanout. | 8/17/2016 | 4/7/2017 |
| 737 Craighead Rd | 26 | 7/6/2016 | Hole around cleanout. | 8/17/2016 | 9/9/2016 |
| 740 Craighead Rd | 26 | 7/6/2016 | cleanout broken | 9/13/2016 | Pending |
| 749 Locust | 26 | 7/7/2016 | Smoking out of ground. | 8/17/2016 | 11/8/2016 |
| 847 Parkview St | 26 | 6/29/2016 | Hole in yard. Dye test/TV'd | 7/5/2016 | 4/13/2017 |

Appendix G

Main Line Resultant Repairs

2017 SSES Resultant Repairs- Mains

| Address | JB # | Mini System | Manhole # | Date of CCTV | Pipe Size | Segment Length (ft) | Pipe Material | CCTV Comments | Rehab Method | Date Completed | Additional Comments |
|--------------------------|------|-------------|-----------|--------------|-----------|---------------------|---------------|--|--------------|----------------|---|
| 3530 Barbara Ann St | 17 | 5 | 227 | 7/19/2017 | 8" | 251 | Clay | CWL main broke & customer lateral at same point. | | | Added to list for CWL patch point repairs |
| 2712 E. Johnson Ave | 17 | 5 | 348 | 7/24/2017 | 8" | 338 | Clay | CWL main leaking at several joints. | | | Added to list for CIPP contract repairs |
| 125 Dean St (Kay's Hall) | 18 | 5 | 82A | 7/31/2017 | 8" | 289 | PVC | CWL main busted & leaking. Have video & sheet for Bruce. | | | Added to list for CWL patch point repairs |
| 1317 Oakdale St | 32 | 4 | 103 | N/A | 8" | 323 | VCP | CWL problem - joint leaking on sewer main close to lateral | | | Added to list for CWL patch point repairs |
| 1220 Stone St | 32 | 4 | 140 | 8/1/2017 | 8" | 348 | VCP | Leaking | | | Added to list for CWL patch point repairs |
| 1900 Macarthur Park | 32 | 4 | 231 | N/A | 8" | 228 | Clay | Main broke | | | Added to list for CWL patch point repairs |
| Wilkins & Hillcrest | 32 | 4 | 214 | N/A | 8" | 288 | Clay | Joint Leaking | Point Patch | 10/21/2017 | Added to list for CWL patch point repairs |
| 300 Leslie Ann | 17 | 5 | 224 | N/A | 8" | 378 | Clay | Broke at joint | | | Added to list for CWL patch point repairs |

2016 SSES Resultant Repairs- Mains

| Date Inspected by CCTV | JB# | Upstream MH | | # | Address Street | Segment Length ft | Main Type | Existing Diameter in | Inspection Comments | Rehab Method | Date Completed |
|------------------------|-----|-------------|-----------|------|----------------------------|----------------------|-----------|-------------------------|---|--------------|----------------|
| | | Mini System | Manhole # | | | | | | | | |
| 7/8/2016 | 26 | 7 | 360 | | Owen & Culberhouse | 350 | Clay | 8 | Abandoned Lateral in Ditch Leaking Cracked Main Leaking | Point Patch | 10/6/2016 |
| 8/18/2016 | 26 | 7 | 430 | | Sims & Culberhouse | 118 | Clay | 8 | CWL main leaking | Point Patch | 10/25/2016 |
| 6/3/2016 | 26 | 7 | 407 | 1210 | Sims | 250 | Clay | 6" | CWL main broke | Point Patch | 8/23/2016 |
| 4/13/2016 | 26 | 7 | 331 | 629 | Melody | 350 | Clay | 6" | Main cracked & leaking | Point Patch | 12/15/2016 |
| 6/3/2016 | 26 | 7 | 406 | 1208 | Sims | 251 | Clay | 6" | CWL main broke | Point Patch | 9/28/2016 |
| 7/7/2016 | 26 | 7 | 377 | 749 | Locust | 226 | Clay | 8" | Main cracked & leaking | Point Patch | 11/15/2016 |
| 7/1/2016 | 26 | 7 | 1045 | | 2000 Block Hampton | 323 | Clay | 6" | CWL main needs point patched or dug up & repaired | Point Patch | 9/13/2016 |
| 7/6/2016 | 26 | 7 | 389 | | Valley & Craighead | 375 | Clay | 6" | Joint & Main has Cracks & Leaking | Point Patch | 8/19/2016 |
| 7/6/2016 | 26 | 7 | 366 | 726 | Valley | 298 | Clay | 8" | Main Broke/Leaking | Point Patch | 8/24/2016 |
| 8/22/2016 | 26 | 7 | 310B | 420 | West Highland Dr. | 331 | Clay | 8" | Main cracked/broke by lateral needs patch pointed *Possibly may need to be dug up and repaired. See Video | | |
| 7/6/2016 | 26 | 7 | 321 | | behind 611 Melody | 239 | Clay | 8" | Main cracked & Leaking out joint | Point Patch | 9/19/2016 |
| 7/1/2016 | 26 | 7 | 305 | 411 | Parkview St. | 170 | Clay | 8" | Storm drain between 411 & 413 Parkview leaking through joint in sewer main. | Point Patch | 9/19/2016 |
| 4/26/2016 | 26 | 7 | 332 | | Glenwood & Parkview | 317 | Clay | 6" | Main & Joint Leaking/Broke | Point Patch | 9/19/2016 |
| 8/22/2016 | 26 | 7 | 317 | | Culberhouse & Odell Tr. | 243 | Clay | 6" | Main broke at joint need point patched | Point Patch | 9/26/2016 |
| 8/3/2016 | 26 | 7 | 661 | | Hunter's Run/backlot | 231 | Clay | | CWL main cracked/broke | Point Patch | 9/27/2016 |
| 6/28/2016 | 26 | 7 | 292 | | Ridgecrest CWL Pump-around | 260 | Clay | 8" | Abandoned Lateral Leaking | Point Patch | 9/23/2016 |
| 6/28/2016 | 26 | 7 | 629 | 788 | South Hill | 285 | Clay | 8" | CWL main broke & needs point patched | Point Patch | 10/3/2016 |
| 10/21/2016 | 24 | 8 | 165 | 3208 | Springwood | 100 | Clay | 8" | CWL main broke due to roots | Point Patch | 10/25/2016 |
| 8/10/2016 | 24 | 8 | 254 | 2002 | Cherrywood | 100 | Clay | 8" | CWL main leaking at a joint | Point Patch | 8/11/2016 |

Appendix H

2017 SSES SL-Rat[®] Results

2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1386 | 1/16/2017 | 416 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1387 | 1/16/2017 | 56 | 7 | GOOD | 7 | GOOD | JB17 |
| 1388 | 1/16/2017 | 268 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1389 | 1/16/2017 | 322 | 1 | POOR | 1 | POOR | JB 17 |
| 1390 | 1/16/2017 | 308 | 8 | GOOD | 9 | GOOD | JB 17 |
| 1391 | 1/16/2017 | 239 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1392 | 1/16/2017 | 189 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1393 | 1/17/2017 | 273 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1394 | 1/17/2017 | 348 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1395 | 1/17/2017 | 122 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1396 | 1/17/2017 | 40 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1397 | 1/17/2017 | 368 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1398 | 1/17/2017 | 452 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1399 | 1/17/2017 | 144 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1400 | 1/17/2017 | 302 | 8 | GOOD | 9 | GOOD | JB 17 |
| 1401 | 1/17/2017 | 357 | 3 | POOR | 3 | POOR | JB 17 |
| 1402 | 1/17/2017 | 401 | 9 | GOOD | 10 | GOOD | JB 17 |
| 1403 | 1/17/2017 | 413 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1404 | 1/17/2017 | 61 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1405 | 1/17/2017 | 50 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1406 | 1/17/2017 | 363 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1407 | 1/17/2017 | 170 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1408 | 1/17/2017 | 184 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1409 | 1/17/2017 | 52 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1410 | 1/17/2017 | 120 | 5 | FAIR | 6 | FAIR | JB 17 |
| 1411 | 1/17/2017 | 208 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1412 | 1/17/2017 | 193 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1413 | 1/17/2017 | 108 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1414 | 1/17/2017 | 359 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1415 | 1/17/2017 | 257 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1416 | 1/17/2017 | 246 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1417 | 1/17/2017 | 286 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1418 | 1/17/2017 | 45 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1419 | 1/17/2017 | 155 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1420 | 1/17/2017 | 270 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1421 | 1/17/2017 | 266 | 9 | GOOD | 9 | GOOD | JB 17 |

Note:

The SL-Rat® first assessment is in the field. Then the SL-Rat® uses GPS coordinates to re-evaluate and correct the score for a more accurate result.

2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1422 | 1/17/2017 | 180 | 8 | GOOD | 7 | GOOD | JB 17 |
| 1423 | 1/17/2017 | 43 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1424 | 1/17/2017 | 95 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1425 | 1/17/2017 | 86 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1426 | 1/18/2017 | 118 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1427 | 1/18/2017 | 21 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1428 | 1/18/2017 | 237 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1429 | 1/18/2017 | 78 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1430 | 1/18/2017 | 333 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1431 | 1/18/2017 | 84 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1432 | 1/18/2017 | 358 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1433 | 1/18/2017 | 391 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1434 | 1/18/2017 | 172 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1435 | 1/18/2017 | 182 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1436 | 1/18/2017 | 296 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1437 | 1/18/2017 | 145 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1438 | 1/18/2017 | 135 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1439 | 1/18/2017 | 143 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1440 | 1/18/2017 | 124 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1441 | 1/18/2017 | 105 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1442 | 1/18/2017 | 198 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1443 | 1/18/2017 | 145 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1444 | 1/18/2017 | 196 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1445 | 1/18/2017 | 227 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1446 | 1/18/2017 | 48 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1447 | 1/18/2017 | 421 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1448 | 1/19/2017 | 142 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1449 | 1/19/2017 | 191 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1450 | 1/19/2017 | 111 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1451 | 1/19/2017 | 313 | 5 | FAIR | 7 | GOOD | JB 17 |
| 1452 | 1/19/2017 | 89 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1453 | 1/19/2017 | 227 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1454 | 1/19/2017 | 148 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1455 | 1/19/2017 | 262 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1456 | 1/19/2017 | 203 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1457 | 1/19/2017 | 176 | 9 | GOOD | 9 | GOOD | JB 17 |

Note:

The SL-Rat® first assessment is in the field. Then the SL-Rat® uses GPS coordinates to re-evaluate and correct the score for a more accurate result.

2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1458 | 1/19/2017 | 161 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1459 | 1/19/2017 | 57 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1460 | 1/19/2017 | 111 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1461 | 1/19/2017 | 333 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1462 | 1/19/2017 | 52 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1463 | 1/19/2017 | 219 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1464 | 1/19/2017 | 181 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1465 | 1/19/2017 | 268 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1466 | 1/19/2017 | 398 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1467 | 1/19/2017 | 215 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1468 | 1/19/2017 | 87 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1469 | 1/19/2017 | 383 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1470 | 1/19/2017 | 303 | 10 | GOOD | 10 | GOOD | JB 17 |
| 1471 | 1/19/2017 | 142 | 8 | GOOD | 9 | GOOD | JB 17 |
| 1472 | 1/19/2017 | 332 | 10 | GOOD | 10 | GOOD | JB 17 |
| 1473 | 1/19/2017 | 205 | 8 | GOOD | 9 | GOOD | JB 17 |
| 1474 | 1/19/2017 | 145 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1475 | 1/19/2017 | 299 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1476 | 1/19/2017 | 216 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1477 | 1/19/2017 | 108 | 3 | POOR | 3 | POOR | JB 17 |
| 1478 | 1/19/2017 | 274 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1479 | 1/19/2017 | 78 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1480 | 1/19/2017 | 274 | 4 | FAIR | 4 | FAIR | JB 17 |
| 1481 | 1/19/2017 | 177 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1482 | 1/19/2017 | 166 | 6 | FAIR | 6 | FAIR | JB 17 |
| 1483 | 1/19/2017 | 386 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1484 | 1/19/2017 | 402 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1485 | 1/20/2017 | 204 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1486 | 1/20/2017 | 272 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1487 | 1/20/2017 | 199 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1488 | 1/20/2017 | 317 | 8 | GOOD | 9 | GOOD | JB 17 |
| 1489 | 1/20/2017 | 368 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1490 | 1/20/2017 | 297 | 9 | GOOD | 8 | GOOD | JB 17 |
| 1491 | 1/20/2017 | 139 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1492 | 1/20/2017 | 143 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1493 | 1/20/2017 | 208 | 8 | GOOD | 8 | GOOD | JB 17 |

Note:

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1494 | 1/20/2017 | 94 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1495 | 1/20/2017 | 108 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1496 | 1/20/2017 | 283 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1497 | 1/20/2017 | 226 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1498 | 1/20/2017 | 446 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1499 | 1/20/2017 | 128 | 6 | FAIR | 6 | FAIR | JB 17 |
| 1500 | 1/20/2017 | 176 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1501 | 1/20/2017 | 146 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1502 | 1/20/2017 | 270 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1503 | 1/20/2017 | 407 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1504 | 1/20/2017 | 195 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1505 | 1/20/2017 | 370 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1506 | 1/20/2017 | 305 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1507 | 1/20/2017 | 31 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1508 | 1/20/2017 | 251 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1509 | 1/20/2017 | 255 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1510 | 1/20/2017 | 260 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1511 | 1/20/2017 | 236 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1512 | 1/20/2017 | 72 | 8 | GOOD | 7 | GOOD | JB 17 |
| 1513 | 1/20/2017 | 64 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1514 | 1/20/2017 | 142 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1515 | 1/23/2017 | 286 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1516 | 1/23/2017 | 202 | 7 | GOOD | 8 | GOOD | JB 17 |
| 1517 | 1/23/2017 | 289 | 8 | GOOD | 7 | GOOD | JB 17 |
| 1518 | 1/23/2017 | 198 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1519 | 1/23/2017 | 375 | 7 | GOOD | 8 | GOOD | JB 17 |
| 1520 | 1/23/2017 | 13 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1521 | 1/23/2017 | 158 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1522 | 1/23/2017 | 183 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1523 | 1/23/2017 | 238 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1524 | 1/23/2017 | 282 | 5 | FAIR | 5 | FAIR | JB 17 |
| 1525 | 1/23/2017 | 191 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1526 | 1/23/2017 | 194 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1527 | 1/23/2017 | 188 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1528 | 1/23/2017 | 232 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1529 | 1/23/2017 | 187 | 9 | GOOD | 9 | GOOD | JB 17 |

Note:

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1530 | 1/23/2017 | 293 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1531 | 1/23/2017 | 155 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1532 | 1/23/2017 | 170 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1533 | 1/23/2017 | 189 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1534 | 1/23/2017 | 123 | 1 | POOR | 1 | POOR | JB 17 |
| 1535 | 1/23/2017 | 168 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1536 | 1/23/2017 | 359 | 2 | POOR | 2 | POOR | JB 17 |
| 1537 | 1/23/2017 | 203 | 8 | GOOD | 9 | GOOD | JB 17 |
| 1538 | 1/23/2017 | 164 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1539 | 1/23/2017 | 41 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1540 | 1/24/2017 | 421 | 10 | GOOD | 10 | GOOD | JB 17 |
| 1541 | 1/24/2017 | 391 | 10 | GOOD | 10 | GOOD | JB 17 |
| 1542 | 1/24/2017 | 402 | 9 | GOOD | 10 | GOOD | JB 17 |
| 1543 | 1/24/2017 | 350 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1544 | 1/24/2017 | 177 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1545 | 1/24/2017 | 352 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1546 | 1/24/2017 | 249 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1547 | 1/24/2017 | 238 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1548 | 1/24/2017 | 321 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1549 | 1/24/2017 | 103 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1550 | 1/24/2017 | 315 | 10 | GOOD | 10 | GOOD | JB 17 |
| 1551 | 1/24/2017 | 169 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1552 | 1/24/2017 | 283 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1553 | 1/24/2017 | 294 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1554 | 1/24/2017 | 76 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1555 | 1/24/2017 | 390 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1556 | 1/24/2017 | 236 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1557 | 1/24/2017 | 218 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1558 | 1/24/2017 | 296 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1559 | 1/24/2017 | 251 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1560 | 1/24/2017 | 209 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1561 | 1/24/2017 | 125 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1562 | 1/24/2017 | 362 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1563 | 1/24/2017 | 379 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1564 | 1/24/2017 | 221 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1565 | 1/24/2017 | 117 | 9 | GOOD | 9 | GOOD | JB 17 |

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1566 | 1/24/2017 | 134 | 6 | FAIR | 6 | FAIR | JB 17 |
| 1567 | 1/24/2017 | 353 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1568 | 1/24/2017 | 345 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1569 | 1/24/2017 | 159 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1570 | 1/24/2017 | 74 | 10 | GOOD | 10 | GOOD | JB 17 |
| 1571 | 1/24/2017 | 378 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1572 | 1/24/2017 | 292 | 10 | GOOD | 9 | GOOD | JB 17 |
| 1573 | 1/25/2017 | 85 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1574 | 1/25/2017 | 167 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1575 | 1/25/2017 | 220 | 7 | GOOD | 8 | GOOD | JB 17 |
| 1576 | 1/25/2017 | 296 | 3 | POOR | 3 | POOR | JB 17 |
| 1577 | 1/25/2017 | 316 | 10 | GOOD | 10 | GOOD | JB 17 |
| 1578 | 1/25/2017 | 231 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1579 | 1/25/2017 | 297 | 9 | GOOD | 8 | GOOD | JB 17 |
| 1580 | 1/25/2017 | 449 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1581 | 1/25/2017 | 248 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1582 | 1/25/2017 | 146 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1583 | 1/25/2017 | 110 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1584 | 1/25/2017 | 238 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1585 | 1/25/2017 | 167 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1586 | 1/25/2017 | 194 | 10 | GOOD | 9 | GOOD | JB 17 |
| 1587 | 1/25/2017 | 97 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1588 | 1/25/2017 | 157 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1589 | 1/25/2017 | 284 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1590 | 1/25/2017 | 295 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1591 | 1/25/2017 | 309 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1592 | 1/25/2017 | 322 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1593 | 1/25/2017 | 248 | 8 | GOOD | 7 | GOOD | JB 17 |
| 1594 | 1/26/2017 | 340 | 7 | GOOD | 9 | GOOD | JB 18 |
| 1595 | 1/26/2017 | 359 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1596 | 1/26/2017 | 113 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1597 | 1/26/2017 | 252 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1598 | 1/26/2017 | 53 | 8 | GOOD | 8 | GOOD | jb 18 |
| 1599 | 1/26/2017 | 142 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1600 | 1/26/2017 | 239 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1601 | 1/26/2017 | 210 | 8 | GOOD | 9 | GOOD | JB18 |

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1602 | 1/26/2017 | 224 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1603 | 1/26/2017 | 216 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1604 | 1/26/2017 | 99 | 9 | GOOD | 8 | GOOD | JB 18 |
| 1605 | 1/26/2017 | 178 | 8 | GOOD | 8 | GOOD | jb18 |
| 1606 | 1/26/2017 | 227 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1607 | 1/26/2017 | 157 | 7 | GOOD | 7 | GOOD | JB 18 |
| 1608 | 1/26/2017 | 65 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1609 | 1/26/2017 | 116 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1610 | 1/26/2017 | 184 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1611 | 1/26/2017 | 66 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1612 | 1/26/2017 | 138 | 8 | GOOD | 9 | GOOD | JB 18 |
| 1613 | 1/26/2017 | 7 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1614 | 1/26/2017 | 86 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1615 | 1/26/2017 | 266 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1616 | 1/26/2017 | 262 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1617 | 1/26/2017 | 71 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1618 | 1/26/2017 | 104 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1619 | 1/27/2017 | 287 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1620 | 1/27/2017 | 263 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1621 | 1/27/2017 | 295 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1622 | 1/27/2017 | 179 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1623 | 1/27/2017 | 129 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1624 | 1/27/2017 | 272 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1625 | 1/27/2017 | 338 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1626 | 1/27/2017 | 365 | 9 | GOOD | 9 | GOOD | JB 17 |
| 1627 | 1/30/2017 | 176 | 7 | GOOD | 7 | GOOD | JB 18 |
| 1628 | 1/30/2017 | 373 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1629 | 1/30/2017 | 34 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1630 | 1/30/2017 | 176 | 5 | FAIR | 6 | FAIR | JB 18 |
| 1631 | 1/30/2017 | 227 | 4 | FAIR | 3 | POOR | JB 18 |
| 1632 | 1/30/2017 | 146 | 1 | POOR | 1 | POOR | JB 18 |
| 1633 | 1/30/2017 | 128 | 8 | GOOD | 8 | GOOD | JB 17 |
| 1634 | 1/30/2017 | 134 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1635 | 1/30/2017 | 147 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1636 | 1/30/2017 | 189 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1637 | 1/30/2017 | 110 | 8 | GOOD | 8 | GOOD | JB 18 |

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1638 | 1/30/2017 | 376 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1639 | 1/30/2017 | 204 | 8 | GOOD | 9 | GOOD | JB 18 |
| 1640 | 1/30/2017 | 74 | 7 | GOOD | 7 | GOOD | JB 18 |
| 1641 | 1/30/2017 | 373 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1642 | 1/30/2017 | 193 | 7 | GOOD | 7 | GOOD | JB 18 |
| 1643 | 1/30/2017 | 229 | 8 | GOOD | 7 | GOOD | JB 18 |
| 1644 | 1/30/2017 | 237 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1645 | 1/30/2017 | 25 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1646 | 1/30/2017 | 201 | 7 | GOOD | 7 | GOOD | JB 18 |
| 1647 | 1/30/2017 | 228 | 7 | GOOD | 7 | GOOD | JB 18 |
| 1648 | 1/30/2017 | 227 | 9 | GOOD | 8 | GOOD | JB 18 |
| 1649 | 1/30/2017 | 87 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1650 | 1/30/2017 | 558 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1651 | 1/30/2017 | 158 | 10 | GOOD | 10 | GOOD | JB 18 |
| 1652 | 1/30/2017 | 401 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1653 | 1/30/2017 | 294 | 10 | GOOD | 9 | GOOD | JB 18 |
| 1654 | 1/30/2017 | 232 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1655 | 1/30/2017 | 97 | 7 | GOOD | 7 | GOOD | JB 17 |
| 1656 | 1/30/2017 | 124 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1657 | 1/30/2017 | 350 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1658 | 1/30/2017 | 176 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1659 | 1/30/2017 | 255 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1660 | 1/30/2017 | 90 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1661 | 1/31/2017 | 144 | 8 | GOOD | 8 | GOOD | JB18 |
| 1662 | 1/31/2017 | 12 | 8 | GOOD | 8 | GOOD | JB18 |
| 1663 | 1/31/2017 | 270 | 6 | FAIR | 6 | FAIR | JB18 |
| 1664 | 1/31/2017 | 71 | 8 | GOOD | 8 | GOOD | JB18 |
| 1665 | 1/31/2017 | 309 | 7 | GOOD | 7 | GOOD | JB18 |
| 1666 | 1/31/2017 | 284 | 3 | POOR | 3 | POOR | JB18 |
| 1667 | 1/31/2017 | 108 | 9 | GOOD | 9 | GOOD | JB18 |
| 1668 | 1/31/2017 | 166 | 0 | BLOCK | 0 | BLOCK | JB18 |
| 1669 | 1/31/2017 | 47 | 8 | GOOD | 8 | GOOD | JB18 |
| 1670 | 1/31/2017 | 228 | 9 | GOOD | 9 | GOOD | JB18 |
| 1671 | 1/31/2017 | 72 | 8 | GOOD | 8 | GOOD | JB18 |
| 1672 | 1/31/2017 | 213 | 9 | GOOD | 9 | GOOD | JB18 |
| 1673 | 1/31/2017 | 68 | 7 | GOOD | 7 | GOOD | JB18 |

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1674 | 1/31/2017 | 140 | 8 | GOOD | 8 | GOOD | JB18 |
| 1675 | 1/31/2017 | 150 | 9 | GOOD | 9 | GOOD | JB18 |
| 1676 | 1/31/2017 | 132 | 9 | GOOD | 9 | GOOD | JB18 |
| 1677 | 1/31/2017 | 66 | 7 | GOOD | 7 | GOOD | JB18 |
| 1678 | 2/1/2017 | 212 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1679 | 2/1/2017 | 206 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1680 | 2/1/2017 | 117 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1681 | 2/1/2017 | 91 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1682 | 2/1/2017 | 200 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1683 | 2/1/2017 | 88 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1684 | 2/1/2017 | 122 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1685 | 2/1/2017 | 134 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1686 | 2/1/2017 | 469 | 6 | FAIR | 6 | FAIR | JB 18 |
| 1687 | 2/1/2017 | 188 | 6 | FAIR | 6 | FAIR | JB 18 |
| 1688 | 2/1/2017 | 72 | 7 | GOOD | 7 | GOOD | JB 18 |
| 1689 | 2/1/2017 | 30 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1690 | 2/1/2017 | 86 | 6 | FAIR | 6 | FAIR | JB 18 |
| 1691 | 2/1/2017 | 524 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1692 | 2/1/2017 | 79 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1693 | 2/1/2017 | 114 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1694 | 2/1/2017 | 547 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1695 | 2/1/2017 | 125 | 8 | GOOD | 9 | GOOD | JB 18 |
| 1696 | 2/1/2017 | 207 | 8 | GOOD | 9 | GOOD | JB 18 |
| 1697 | 2/1/2017 | 160 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1698 | 2/1/2017 | 222 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1699 | 2/1/2017 | 187 | 7 | GOOD | 7 | GOOD | JB 18 |
| 1700 | 2/1/2017 | 176 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1701 | 2/1/2017 | 141 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1702 | 2/1/2017 | 73 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1703 | 2/1/2017 | 238 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1704 | 2/2/2017 | 33 | 8 | GOOD | 8 | GOOD | JB18 |
| 1705 | 2/2/2017 | 494 | 0 | BLOCK | 0 | BLOCK | JB18 |
| 1706 | 2/2/2017 | 52 | 0 | BLOCK | 0 | BLOCK | JB18 |
| 1707 | 2/2/2017 | 156 | 8 | GOOD | 8 | GOOD | JB18 |
| 1708 | 2/2/2017 | 382 | 9 | GOOD | 9 | GOOD | JB18 |
| 1709 | 2/2/2017 | 149 | 9 | GOOD | 9 | GOOD | JB18 |

Note:

The SL-Rat® first assessment is in the field. Then the SL-Rat® uses GPS coordinates to re-evaluate and correct the score for a more accurate result.

2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1710 | 2/2/2017 | 529 | 6 | FAIR | 6 | FAIR | JB18 |
| 1711 | 2/2/2017 | 19 | 6 | FAIR | 6 | FAIR | JB18 |
| 1712 | 2/2/2017 | 19 | 8 | GOOD | 8 | GOOD | JB18 |
| 1713 | 2/2/2017 | 168 | 7 | GOOD | 7 | GOOD | JB18 |
| 1714 | 2/2/2017 | 353 | 8 | GOOD | 9 | GOOD | JB18 |
| 1715 | 2/2/2017 | 163 | 6 | FAIR | 6 | FAIR | JB18 |
| 1716 | 2/2/2017 | 193 | 9 | GOOD | 9 | GOOD | JB18 |
| 1717 | 2/2/2017 | 164 | 9 | GOOD | 9 | GOOD | JB18 |
| 1718 | 2/2/2017 | 107 | 8 | GOOD | 9 | GOOD | JB18 |
| 1719 | 2/2/2017 | 85 | 5 | FAIR | 5 | FAIR | JB18 |
| 1720 | 2/2/2017 | 301 | 3 | POOR | 5 | FAIR | JB18 |
| 1721 | 2/2/2017 | 126 | 7 | GOOD | 7 | GOOD | JB18 |
| 1722 | 2/3/2017 | 336 | 5 | FAIR | 5 | FAIR | JB18 |
| 1723 | 2/3/2017 | 240 | 1 | POOR | 1 | POOR | JB18 |
| 1724 | 2/3/2017 | 67 | 7 | GOOD | 7 | GOOD | JB18 |
| 1725 | 2/3/2017 | 204 | 7 | GOOD | 7 | GOOD | JB18 |
| 1726 | 2/3/2017 | 148 | 8 | GOOD | 9 | GOOD | JB18 |
| 1727 | 2/3/2017 | 64 | 7 | GOOD | 7 | GOOD | JB18 |
| 1728 | 2/3/2017 | 170 | 9 | GOOD | 8 | GOOD | JB18 |
| 1729 | 2/3/2017 | 169 | 6 | FAIR | 6 | FAIR | JB18 |
| 1730 | 2/3/2017 | 62 | 5 | FAIR | 5 | FAIR | JB18 |
| 1731 | 2/3/2017 | 226 | 3 | POOR | 5 | FAIR | JB18 |
| 1732 | 2/3/2017 | 422 | 2 | POOR | 3 | POOR | JB18 |
| 1733 | 2/3/2017 | 34 | 8 | GOOD | 8 | GOOD | JB18 |
| 1734 | 2/3/2017 | 210 | 8 | GOOD | 8 | GOOD | JB18 |
| 1735 | 2/3/2017 | 118 | 5 | FAIR | 6 | FAIR | JB18 |
| 1736 | 2/3/2017 | 219 | 8 | GOOD | 9 | GOOD | JB18 |
| 1737 | 2/3/2017 | 131 | 8 | GOOD | 9 | GOOD | JB18 |
| 1738 | 2/6/2017 | 268 | 9 | GOOD | 9 | GOOD | JB18 |
| 1739 | 2/6/2017 | 289 | 9 | GOOD | 9 | GOOD | JB18 |
| 1740 | 2/6/2017 | 298 | 9 | GOOD | 9 | GOOD | JB18 |
| 1741 | 2/6/2017 | 351 | 2 | POOR | 2 | POOR | JB18 |
| 1742 | 2/6/2017 | 264 | 9 | GOOD | 9 | GOOD | JB18 |
| 1743 | 2/6/2017 | 266 | 7 | GOOD | 7 | GOOD | JB18 |
| 1744 | 2/6/2017 | 220 | 7 | GOOD | 8 | GOOD | JB18 |
| 1745 | 2/6/2017 | 311 | 6 | FAIR | 8 | GOOD | JB18 |

Note:

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1746 | 2/6/2017 | 277 | 5 | FAIR | 6 | FAIR | JB18 |
| 1747 | 2/6/2017 | 219 | 6 | FAIR | 6 | FAIR | JB18 |
| 1748 | 2/6/2017 | 193 | 7 | GOOD | 7 | GOOD | JB18 |
| 1749 | 2/6/2017 | 410 | 8 | GOOD | 8 | GOOD | JB18 |
| 1750 | 2/6/2017 | 401 | 5 | FAIR | 5 | FAIR | JB18 |
| 1751 | 2/6/2017 | 156 | 8 | GOOD | 8 | GOOD | JB18 |
| 1752 | 2/6/2017 | 99 | 8 | GOOD | 8 | GOOD | JB18 |
| 1753 | 2/6/2017 | 114 | 8 | GOOD | 8 | GOOD | JB18 |
| 1754 | 2/6/2017 | 170 | 7 | GOOD | 7 | GOOD | JB18 |
| 1755 | 2/6/2017 | 229 | 9 | GOOD | 9 | GOOD | JB18 |
| 1756 | 2/6/2017 | 162 | 9 | GOOD | 9 | GOOD | JB18 |
| 1757 | 2/6/2017 | 91 | 8 | GOOD | 8 | GOOD | JB18 |
| 1758 | 2/6/2017 | 110 | 8 | GOOD | 9 | GOOD | JB18 |
| 1759 | 2/6/2017 | 85 | 8 | GOOD | 8 | GOOD | JB18 |
| 1760 | 2/6/2017 | 62 | 8 | GOOD | 8 | GOOD | JB18 |
| 1761 | 2/6/2017 | 59 | 8 | GOOD | 8 | GOOD | JB18 |
| 1762 | 2/6/2017 | 45 | 8 | GOOD | 8 | GOOD | JB18 |
| 1763 | 2/6/2017 | 93 | 8 | GOOD | 8 | GOOD | JB18 |
| 1764 | 2/6/2017 | 47 | 8 | GOOD | 8 | GOOD | JB18 |
| 1765 | 2/6/2017 | 71 | 8 | GOOD | 8 | GOOD | JB18 |
| 1766 | 2/6/2017 | 239 | 8 | GOOD | 8 | GOOD | JB18 |
| 1767 | 2/6/2017 | 133 | 8 | GOOD | 8 | GOOD | JB18 |
| 1768 | 2/7/2017 | 264 | 8 | GOOD | 8 | GOOD | JB18 |
| 1769 | 2/7/2017 | 106 | 8 | GOOD | 8 | GOOD | JB18 |
| 1770 | 2/7/2017 | 72 | 9 | GOOD | 9 | GOOD | JB18 |
| 1772 | 2/7/2017 | 199 | 8 | GOOD | 8 | GOOD | JB18 |
| 1773 | 2/7/2017 | 230 | 8 | GOOD | 8 | GOOD | JB18 |
| 1774 | 2/7/2017 | 296 | 9 | GOOD | 9 | GOOD | JB18 |
| 1775 | 2/7/2017 | 300 | 8 | GOOD | 9 | GOOD | JB18 |
| 1776 | 2/7/2017 | 275 | 8 | GOOD | 8 | GOOD | JB18 |
| 1777 | 2/7/2017 | 334 | 9 | GOOD | 9 | GOOD | JB18 |
| 1778 | 2/7/2017 | 317 | 8 | GOOD | 9 | GOOD | JB18 |
| 1779 | 2/7/2017 | 318 | 8 | GOOD | 9 | GOOD | JB18 |
| 1780 | 2/7/2017 | 265 | 9 | GOOD | 8 | GOOD | JB18 |
| 1781 | 2/7/2017 | 363 | 9 | GOOD | 9 | GOOD | JB18 |
| 1782 | 2/7/2017 | 95 | 9 | GOOD | 9 | GOOD | JB18 |

Note:

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1783 | 2/7/2017 | 284 | 8 | GOOD | 8 | GOOD | JB18 |
| 1784 | 2/7/2017 | 174 | 8 | GOOD | 8 | GOOD | JB18 |
| 1785 | 2/7/2017 | 244 | 8 | GOOD | 8 | GOOD | JB18 |
| 1786 | 2/7/2017 | 488 | 8 | GOOD | 8 | GOOD | JB18 |
| 1787 | 2/7/2017 | 216 | 7 | GOOD | 7 | GOOD | JB18 |
| 1788 | 2/7/2017 | 297 | 9 | GOOD | 9 | GOOD | JB18 |
| 1789 | 2/7/2017 | 303 | 9 | GOOD | 9 | GOOD | JB18 |
| 1790 | 2/7/2017 | 164 | 9 | GOOD | 9 | GOOD | JB18 |
| 1791 | 2/7/2017 | 319 | 9 | GOOD | 9 | GOOD | JB18 |
| 1792 | 2/7/2017 | 297 | 7 | GOOD | 8 | GOOD | JB18 |
| 1793 | 2/7/2017 | 151 | 8 | GOOD | 8 | GOOD | JB18 |
| 1794 | 2/7/2017 | 306 | 8 | GOOD | 8 | GOOD | JB18 |
| 1795 | 2/7/2017 | 310 | 9 | GOOD | 10 | GOOD | JB18 |
| 1796 | 2/7/2017 | 32 | 9 | GOOD | 9 | GOOD | JB18 |
| 1797 | 2/7/2017 | 421 | 9 | GOOD | 9 | GOOD | JB18 |
| 1798 | 2/7/2017 | 19 | 8 | GOOD | 8 | GOOD | JB18 |
| 1799 | 2/7/2017 | 25 | 9 | GOOD | 9 | GOOD | JB18 |
| 1800 | 2/7/2017 | 264 | 8 | GOOD | 8 | GOOD | JB18 |
| 1803 | 2/7/2017 | 295 | 9 | GOOD | 9 | GOOD | JB18 |
| 1804 | 2/7/2017 | 290 | 7 | GOOD | 7 | GOOD | JB18 |
| 1805 | 2/7/2017 | 91 | 8 | GOOD | 8 | GOOD | JB18 |
| 1806 | 2/7/2017 | 78 | 8 | GOOD | 8 | GOOD | JB18 |
| 1807 | 2/7/2017 | 223 | 9 | GOOD | 9 | GOOD | JB18 |
| 1808 | 2/7/2017 | 249 | 9 | GOOD | 8 | GOOD | JB18 |
| 1809 | 2/8/2017 | 243 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1810 | 2/8/2017 | 235 | 0 | BLOCK | 0 | BLOCK | JB 18 |
| 1811 | 2/8/2017 | 415 | 0 | BLOCK | 0 | BLOCK | JB 18 |
| 1812 | 2/8/2017 | 334 | 5 | FAIR | 5 | FAIR | JB 18 |
| 1813 | 2/8/2017 | 175 | 7 | GOOD | 7 | GOOD | JB 18 |
| 1814 | 2/8/2017 | 386 | 0 | BLOCK | 0 | BLOCK | JB 18 |
| 1815 | 2/8/2017 | 410 | 0 | BLOCK | 0 | BLOCK | JB 18 |
| 1816 | 2/8/2017 | 236 | 4 | FAIR | 4 | FAIR | JB 18 |
| 1817 | 2/8/2017 | 269 | 4 | FAIR | 4 | FAIR | JB 18 |
| 1818 | 2/8/2017 | 227 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1819 | 2/8/2017 | 206 | 7 | GOOD | 7 | GOOD | JB 18 |
| 1820 | 2/8/2017 | 287 | 8 | GOOD | 8 | GOOD | JB 18 |

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1821 | 2/8/2017 | 229 | 5 | FAIR | 5 | FAIR | JB 18 |
| 1822 | 2/8/2017 | 201 | 7 | GOOD | 7 | GOOD | JB 18 |
| 1823 | 2/8/2017 | 286 | 7 | GOOD | 8 | GOOD | JB 18 |
| 1824 | 2/8/2017 | 285 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1826 | 2/8/2017 | 261 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1827 | 2/8/2017 | 31 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1828 | 2/8/2017 | 219 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1829 | 2/8/2017 | 379 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1830 | 2/8/2017 | 58 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1831 | 2/8/2017 | 168 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1832 | 2/8/2017 | 169 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1833 | 2/8/2017 | 64 | 7 | GOOD | 7 | GOOD | JB 18 |
| 1835 | 2/8/2017 | 129 | 9 | GOOD | 9 | GOOD | JB 18 |
| 1836 | 2/8/2017 | 63 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1837 | 2/8/2017 | 198 | 8 | GOOD | 8 | GOOD | JB 18 |
| 1838 | 2/9/2017 | 229 | 8 | GOOD | 8 | GOOD | JB32 |
| 1839 | 2/9/2017 | 195 | 8 | GOOD | 8 | GOOD | JB32 |
| 1840 | 2/9/2017 | 248 | 7 | GOOD | 8 | GOOD | JB32 |
| 1841 | 2/9/2017 | 89 | 8 | GOOD | 8 | GOOD | JB32 |
| 1842 | 2/9/2017 | 192 | 7 | GOOD | 7 | GOOD | JB32 |
| 1843 | 2/9/2017 | 247 | 9 | GOOD | 9 | GOOD | JB32 |
| 1844 | 2/9/2017 | 301 | 8 | GOOD | 9 | GOOD | JB32 |
| 1845 | 2/9/2017 | 302 | 9 | GOOD | 9 | GOOD | JB32 |
| 1846 | 2/9/2017 | 363 | 8 | GOOD | 8 | GOOD | JB32 |
| 1847 | 2/9/2017 | 265 | 8 | GOOD | 7 | GOOD | JB32 |
| 1848 | 2/9/2017 | 92 | 7 | GOOD | 7 | GOOD | JB32 |
| 1849 | 2/9/2017 | 95 | 8 | GOOD | 8 | GOOD | JB32 |
| 1850 | 2/9/2017 | 13 | 6 | FAIR | 6 | FAIR | JB32 |
| 1851 | 2/9/2017 | 299 | 7 | GOOD | 6 | FAIR | JB32 |
| 1852 | 2/9/2017 | 318 | 7 | GOOD | 7 | GOOD | JB32 |
| 1853 | 2/9/2017 | 341 | 9 | GOOD | 9 | GOOD | JB32 |
| 1854 | 2/9/2017 | 326 | 7 | GOOD | 8 | GOOD | JB32 |
| 1855 | 2/9/2017 | 290 | 5 | FAIR | 4 | FAIR | JB32 |
| 1856 | 2/9/2017 | 314 | 9 | GOOD | 9 | GOOD | JB32 |
| 1857 | 2/9/2017 | 345 | 6 | FAIR | 6 | FAIR | JB32 |
| 1858 | 2/9/2017 | 324 | 6 | FAIR | 8 | GOOD | JB32 |

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1859 | 2/9/2017 | 342 | 5 | FAIR | 5 | FAIR | JB32 |
| 1860 | 2/9/2017 | 314 | 7 | GOOD | 7 | GOOD | JB32 |
| 1861 | 2/9/2017 | 269 | 8 | GOOD | 8 | GOOD | JB32 |
| 1862 | 2/9/2017 | 312 | 8 | GOOD | 8 | GOOD | JB32 |
| 1863 | 2/9/2017 | 318 | 9 | GOOD | 9 | GOOD | JB32 |
| 1864 | 2/9/2017 | 317 | 10 | GOOD | 10 | GOOD | JB32 |
| 1865 | 2/9/2017 | 357 | 7 | GOOD | 8 | GOOD | JB32 |
| 1866 | 2/9/2017 | 64 | 8 | GOOD | 8 | GOOD | JB32 |
| 1867 | 2/9/2017 | 4 | 8 | GOOD | 8 | GOOD | JB32 |
| 1868 | 2/9/2017 | 78 | 7 | GOOD | 7 | GOOD | JB32 |
| 1869 | 2/9/2017 | 242 | 6 | FAIR | 7 | GOOD | JB32 |
| 1870 | 2/9/2017 | 271 | 9 | GOOD | 9 | GOOD | JB32 |
| 1871 | 2/9/2017 | 298 | 6 | FAIR | 5 | FAIR | JB32 |
| 1872 | 2/9/2017 | 323 | 7 | GOOD | 8 | GOOD | JB32 |
| 1873 | 2/9/2017 | 291 | 9 | GOOD | 8 | GOOD | JB32 |
| 1874 | 2/9/2017 | 214 | 8 | GOOD | 8 | GOOD | JB32 |
| 1875 | 2/9/2017 | 307 | 7 | GOOD | 9 | GOOD | JB32 |
| 1876 | 2/9/2017 | 389 | 8 | GOOD | 8 | GOOD | JB32 |
| 1877 | 2/9/2017 | 53 | 8 | GOOD | 8 | GOOD | JB32 |
| 1878 | 2/9/2017 | 140 | 7 | GOOD | 7 | GOOD | JB32 |
| 1879 | 2/9/2017 | 56 | 9 | GOOD | 8 | GOOD | JB32 |
| 1880 | 2/9/2017 | 231 | 7 | GOOD | 6 | FAIR | JB32 |
| 1881 | 2/9/2017 | 350 | 6 | FAIR | 6 | FAIR | JB32 |
| 1882 | 2/9/2017 | 224 | 9 | GOOD | 9 | GOOD | JB32 |
| 1883 | 2/9/2017 | 201 | 8 | GOOD | 9 | GOOD | JB32 |
| 1884 | 2/9/2017 | 230 | 9 | GOOD | 8 | GOOD | JB32 |
| 1885 | 2/9/2017 | 267 | 6 | FAIR | 6 | FAIR | JB32 |
| 1886 | 2/9/2017 | 267 | 6 | FAIR | 6 | FAIR | JB32 |
| 1887 | 2/9/2017 | 128 | 8 | GOOD | 6 | FAIR | JB32 |
| 1888 | 2/9/2017 | 199 | 10 | GOOD | 9 | GOOD | JB32 |
| 1889 | 2/9/2017 | 245 | 0 | BLOCK | 0 | BLOCK | JB32 |
| 1890 | 2/9/2017 | 284 | 7 | GOOD | 7 | GOOD | JB32 |
| 1891 | 2/9/2017 | 31 | 8 | GOOD | 8 | GOOD | JB32 |
| 1892 | 2/9/2017 | 224 | 9 | GOOD | 8 | GOOD | JB32 |
| 1893 | 2/9/2017 | 139 | 9 | GOOD | 8 | GOOD | JB32 |
| 1894 | 2/10/2017 | 336 | 6 | FAIR | 6 | FAIR | JB 32 |

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1895 | 2/10/2017 | 334 | 9 | GOOD | 9 | GOOD | JB 32 |
| 1896 | 2/10/2017 | 324 | 10 | GOOD | 10 | GOOD | JB 32 |
| 1897 | 2/10/2017 | 145 | 7 | GOOD | 8 | GOOD | JB 32 |
| 1898 | 2/10/2017 | 334 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1899 | 2/10/2017 | 173 | 6 | FAIR | 6 | FAIR | JB 32 |
| 1900 | 2/10/2017 | 83 | 7 | GOOD | 7 | GOOD | JB 32 |
| 1901 | 2/10/2017 | 276 | 9 | GOOD | 8 | GOOD | JB 32 |
| 1902 | 2/10/2017 | 278 | 7 | GOOD | 7 | GOOD | JB 32 |
| 1903 | 2/10/2017 | 224 | 8 | GOOD | 7 | GOOD | JB 32 |
| 1904 | 2/10/2017 | 256 | 6 | FAIR | 7 | GOOD | JB 32 |
| 1905 | 2/10/2017 | 330 | 7 | GOOD | 7 | GOOD | JB 32 |
| 1906 | 2/10/2017 | 19 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1907 | 2/10/2017 | 630 | 6 | FAIR | 6 | FAIR | JB 32 |
| 1908 | 2/10/2017 | 317 | 7 | GOOD | 7 | GOOD | JB 32 |
| 1909 | 2/10/2017 | 368 | 4 | FAIR | 6 | FAIR | JB 32 |
| 1910 | 2/10/2017 | 42 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1911 | 2/10/2017 | 103 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1912 | 2/10/2017 | 102 | 7 | GOOD | 7 | GOOD | JB 32 |
| 1913 | 2/10/2017 | 231 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1914 | 2/10/2017 | 306 | 7 | GOOD | 8 | GOOD | JB 32 |
| 1915 | 2/10/2017 | 220 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1916 | 2/10/2017 | 97 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1917 | 2/10/2017 | 198 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1918 | 2/10/2017 | 132 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1919 | 2/10/2017 | 243 | 9 | GOOD | 9 | GOOD | JB 32 |
| 1920 | 2/10/2017 | 86 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1921 | 2/10/2017 | 396 | 5 | FAIR | 5 | FAIR | JB 32 |
| 1922 | 2/10/2017 | 398 | 5 | FAIR | 5 | FAIR | JB 32 |
| 1923 | 2/10/2017 | 297 | 6 | FAIR | 8 | GOOD | JB 32 |
| 1924 | 2/10/2017 | 294 | 6 | FAIR | 7 | GOOD | JB 32 |
| 1925 | 2/10/2017 | 329 | 5 | FAIR | 5 | FAIR | JB 32 |
| 1926 | 2/10/2017 | 321 | 8 | GOOD | 9 | GOOD | JB 32 |
| 1927 | 2/10/2017 | 410 | 7 | GOOD | 7 | GOOD | JB 32 |
| 1928 | 2/10/2017 | 357 | 7 | GOOD | 7 | GOOD | JB 32 |
| 1929 | 2/10/2017 | 282 | 6 | FAIR | 6 | FAIR | JB 32 |
| 1930 | 2/10/2017 | 60 | 9 | GOOD | 9 | GOOD | JB 32 |

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1931 | 2/10/2017 | 86 | 7 | GOOD | 7 | GOOD | JB 32 |
| 1932 | 2/10/2017 | 283 | 3 | POOR | 3 | POOR | JB 32 |
| 1933 | 2/10/2017 | 81 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1934 | 2/10/2017 | 255 | 9 | GOOD | 9 | GOOD | JB 32 |
| 1935 | 2/10/2017 | 160 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1936 | 2/10/2017 | 163 | 7 | GOOD | 7 | GOOD | JB 32 |
| 1937 | 2/10/2017 | 81 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1938 | 2/10/2017 | 215 | 7 | GOOD | 8 | GOOD | JB 32 |
| 1939 | 2/10/2017 | 134 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1940 | 2/13/2017 | 227 | 9 | GOOD | 9 | GOOD | JB32 |
| 1941 | 2/13/2017 | 243 | 8 | GOOD | 9 | GOOD | JB32 |
| 1942 | 2/13/2017 | 446 | 7 | GOOD | 9 | GOOD | JB32 |
| 1943 | 2/13/2017 | 168 | 7 | GOOD | 7 | GOOD | JB32 |
| 1944 | 2/13/2017 | 245 | 9 | GOOD | 9 | GOOD | JB32 |
| 1945 | 2/13/2017 | 43 | 8 | GOOD | 8 | GOOD | JB32 |
| 1946 | 2/13/2017 | 351 | 8 | GOOD | 8 | GOOD | JB32 |
| 1947 | 2/13/2017 | 202 | 8 | GOOD | 9 | GOOD | JB32 |
| 1948 | 2/13/2017 | 216 | 9 | GOOD | 9 | GOOD | JB32 |
| 1949 | 2/13/2017 | 290 | 8 | GOOD | 8 | GOOD | JB32 |
| 1950 | 2/13/2017 | 109 | 9 | GOOD | 9 | GOOD | JB32 |
| 1951 | 2/13/2017 | 160 | 10 | GOOD | 10 | GOOD | JB32 |
| 1952 | 2/13/2017 | 195 | 9 | GOOD | 9 | GOOD | JB32 |
| 1953 | 2/13/2017 | 37 | 9 | GOOD | 9 | GOOD | JB32 |
| 1954 | 2/13/2017 | 339 | 6 | FAIR | 7 | GOOD | JB32 |
| 1955 | 2/13/2017 | 310 | 9 | GOOD | 9 | GOOD | JB32 |
| 1956 | 2/13/2017 | 66 | 8 | GOOD | 8 | GOOD | JB32 |
| 1957 | 2/13/2017 | 251 | 8 | GOOD | 9 | GOOD | JB32 |
| 1958 | 2/13/2017 | 38 | 8 | GOOD | 8 | GOOD | JB32 |
| 1959 | 2/13/2017 | 257 | 9 | GOOD | 9 | GOOD | JB32 |
| 1960 | 2/13/2017 | 30 | 7 | GOOD | 7 | GOOD | JB32 |
| 1961 | 2/13/2017 | 199 | 8 | GOOD | 8 | GOOD | JB32 |
| 1962 | 2/13/2017 | 144 | 8 | GOOD | 8 | GOOD | JB32 |
| 1963 | 2/13/2017 | 152 | 8 | GOOD | 8 | GOOD | JB32 |
| 1964 | 2/13/2017 | 77 | 8 | GOOD | 8 | GOOD | JB32 |
| 1965 | 2/13/2017 | 158 | 9 | GOOD | 9 | GOOD | JB32 |
| 1966 | 2/13/2017 | 115 | 7 | GOOD | 7 | GOOD | JB32 |

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2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 1967 | 2/13/2017 | 63 | 8 | GOOD | 8 | GOOD | JB32 |
| 1968 | 2/13/2017 | 360 | 0 | BLOCK | 0 | BLOCK | JB32 |
| 1969 | 2/13/2017 | 145 | 8 | GOOD | 8 | GOOD | JB32 |
| 1970 | 2/13/2017 | 152 | 8 | GOOD | 8 | GOOD | JB32 |
| 1971 | 2/13/2017 | 307 | 9 | GOOD | 9 | GOOD | JB32 |
| 1972 | 2/13/2017 | 149 | 1 | POOR | 2 | POOR | JB32 |
| 1973 | 2/13/2017 | 55 | 6 | FAIR | 6 | FAIR | JB32 |
| 1974 | 2/13/2017 | 45 | 9 | GOOD | 8 | GOOD | JB32 |
| 1975 | 2/13/2017 | 51 | 8 | GOOD | 8 | GOOD | JB32 |
| 1976 | 2/13/2017 | 180 | 9 | GOOD | 9 | GOOD | JB32 |
| 1977 | 2/13/2017 | 219 | 9 | GOOD | 9 | GOOD | JB32 |
| 1978 | 2/13/2017 | 103 | 8 | GOOD | 8 | GOOD | JB32 |
| 1979 | 2/13/2017 | 292 | 9 | GOOD | 9 | GOOD | JB32 |
| 1980 | 2/14/2017 | 280 | 7 | GOOD | 7 | GOOD | JB 32 |
| 1981 | 2/14/2017 | 315 | 4 | FAIR | 5 | FAIR | JB 32 |
| 1982 | 2/14/2017 | 232 | 9 | GOOD | 9 | GOOD | JB 32 |
| 1983 | 2/14/2017 | 252 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1984 | 2/14/2017 | 243 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1985 | 2/14/2017 | 330 | 2 | POOR | 2 | POOR | JB 32 |
| 1986 | 2/14/2017 | 91 | 9 | GOOD | 9 | GOOD | JB 32 |
| 1987 | 2/14/2017 | 214 | 3 | POOR | 3 | POOR | JB 32 |
| 1988 | 2/14/2017 | 264 | 9 | GOOD | 9 | GOOD | JB 32 |
| 1989 | 2/14/2017 | 41 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1990 | 2/14/2017 | 305 | 8 | GOOD | 9 | GOOD | JB 32 |
| 1991 | 2/14/2017 | 242 | 8 | GOOD | 9 | GOOD | JB 32 |
| 1992 | 2/14/2017 | 242 | 8 | GOOD | 9 | GOOD | JB 32 |
| 1993 | 2/14/2017 | 278 | 8 | GOOD | 8 | GOOD | JB 32 |
| 1994 | 2/14/2017 | 282 | 6 | FAIR | 6 | FAIR | JB 32 |
| 1995 | 2/14/2017 | 271 | 8 | GOOD | 9 | GOOD | JB 32 |
| 1996 | 2/14/2017 | 196 | 9 | GOOD | 9 | GOOD | JB 32 |
| 1997 | 2/14/2017 | 131 | 9 | GOOD | 9 | GOOD | JB 32 |
| 1998 | 2/14/2017 | 248 | 5 | FAIR | 5 | FAIR | JB 32 |
| 1999 | 2/14/2017 | 129 | 7 | GOOD | 8 | GOOD | JB 32 |
| 2000 | 2/14/2017 | 231 | 8 | GOOD | 8 | GOOD | JB 32 |
| 2001 | 2/14/2017 | 182 | 7 | GOOD | 7 | GOOD | JB 32 |
| 2002 | 2/14/2017 | 101 | 8 | GOOD | 9 | GOOD | JB 32 |

Note:

The SL-Rat® first assessment is in the field. Then the SL-Rat® uses GPS coordinates to re-evaluate and correct the score for a more accurate result.

2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 2003 | 2/14/2017 | 289 | 8 | GOOD | 8 | GOOD | JB 32 |
| 2004 | 2/14/2017 | 294 | 5 | FAIR | 5 | FAIR | JB 32 |
| 2005 | 2/14/2017 | 262 | 7 | GOOD | 7 | GOOD | JB 32 |
| 2006 | 2/14/2017 | 369 | 9 | GOOD | 9 | GOOD | JB 32 |
| 2007 | 2/14/2017 | 350 | 8 | GOOD | 9 | GOOD | JB 32 |
| 2008 | 2/14/2017 | 94 | 8 | GOOD | 8 | GOOD | JB 32 |
| 2009 | 2/14/2017 | 243 | 8 | GOOD | 8 | GOOD | JB 32 |
| 2010 | 2/14/2017 | 226 | 8 | GOOD | 8 | GOOD | JB 32 |
| 2011 | 2/14/2017 | 100 | 9 | GOOD | 9 | GOOD | JB 32 |
| 2012 | 2/14/2017 | 310 | 10 | GOOD | 10 | GOOD | JB 32 |
| 2013 | 2/14/2017 | 261 | 8 | GOOD | 9 | GOOD | JB 32 |
| 2014 | 2/15/2017 | 206 | 8 | GOOD | 9 | GOOD | JB32 |
| 2015 | 2/15/2017 | 219 | 9 | GOOD | 8 | GOOD | JB32 |
| 2016 | 2/15/2017 | 69 | 8 | GOOD | 8 | GOOD | JB32 |
| 2017 | 2/15/2017 | 145 | 8 | GOOD | 9 | GOOD | JB32 |
| 2018 | 2/15/2017 | 208 | 9 | GOOD | 10 | GOOD | JB32 |
| 2019 | 2/15/2017 | 223 | 9 | GOOD | 9 | GOOD | JB32 |
| 2020 | 2/15/2017 | 103 | 8 | GOOD | 8 | GOOD | JB32 |
| 2021 | 2/15/2017 | 223 | 9 | GOOD | 9 | GOOD | JB32 |
| 2022 | 2/15/2017 | 145 | 8 | GOOD | 8 | GOOD | JB32 |
| 2023 | 2/15/2017 | 348 | 9 | GOOD | 9 | GOOD | JB32 |
| 2024 | 2/15/2017 | 96 | 7 | GOOD | 7 | GOOD | JB32 |
| 2025 | 2/15/2017 | 238 | 9 | GOOD | 8 | GOOD | JB32 |
| 2026 | 2/15/2017 | 311 | 8 | GOOD | 8 | GOOD | JB32 |
| 2027 | 2/15/2017 | 3 | 9 | GOOD | 9 | GOOD | JB32 |
| 2028 | 2/15/2017 | 364 | 7 | GOOD | 7 | GOOD | JB32 |
| 2029 | 2/15/2017 | 211 | 7 | GOOD | 7 | GOOD | JB32 |
| 2030 | 2/15/2017 | 375 | 5 | FAIR | 5 | FAIR | JB32 |
| 2031 | 2/15/2017 | 436 | 9 | GOOD | 10 | GOOD | JB32 |
| 2032 | 2/15/2017 | 369 | 7 | GOOD | 7 | GOOD | JB32 |
| 2033 | 2/15/2017 | 329 | 8 | GOOD | 8 | GOOD | JB32 |
| 2034 | 2/15/2017 | 260 | 7 | GOOD | 7 | GOOD | JB32 |
| 2035 | 2/15/2017 | 155 | 9 | GOOD | 9 | GOOD | JB32 |
| 2036 | 2/15/2017 | 241 | 6 | FAIR | 7 | GOOD | JB32 |
| 2037 | 2/15/2017 | 7 | 7 | GOOD | 7 | GOOD | JB32 |
| 2038 | 2/15/2017 | 330 | 10 | GOOD | 10 | GOOD | JB32 |

Note:

The SL-Rat® first assessment is in the field. Then the SL-Rat® uses GPS coordinates to re-evaluate and correct the score for a more accurate result.

2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|----------|
| 2039 | 2/15/2017 | 76 | 9 | GOOD | 9 | GOOD | JB32 |
| 2040 | 2/15/2017 | 154 | 7 | GOOD | 7 | GOOD | JB32 |
| 2041 | 2/15/2017 | 174 | 7 | GOOD | 8 | GOOD | JB32 |
| 2042 | 2/15/2017 | 327 | 8 | GOOD | 8 | GOOD | JB32 |
| 2043 | 2/15/2017 | 23 | 9 | GOOD | 9 | GOOD | JB32 |
| 2044 | 2/15/2017 | 306 | 5 | FAIR | 5 | FAIR | JB32 |
| 2045 | 2/15/2017 | 243 | 8 | GOOD | 8 | GOOD | JB32 |
| 2046 | 2/15/2017 | 104 | 8 | GOOD | 8 | GOOD | JB32 |
| 2047 | 2/15/2017 | 157 | 9 | GOOD | 9 | GOOD | JB32 |
| 2048 | 2/15/2017 | 211 | 9 | GOOD | 9 | GOOD | JB32 |
| 2049 | 2/15/2017 | 234 | 8 | GOOD | 8 | GOOD | JB32 |
| 2050 | 2/15/2017 | 248 | 8 | GOOD | 8 | GOOD | JB32 |
| 2051 | 2/16/2017 | 180 | 9 | GOOD | 9 | GOOD | JB32 |
| 2052 | 2/16/2017 | 68 | 8 | GOOD | 8 | GOOD | JB32 |
| 2053 | 2/16/2017 | 325 | 7 | GOOD | 7 | GOOD | JB32 |
| 2054 | 2/16/2017 | 320 | 9 | GOOD | 9 | GOOD | JB32 |
| 2055 | 2/16/2017 | 309 | 6 | FAIR | 6 | FAIR | JB32 |
| 2056 | 2/16/2017 | 365 | 7 | GOOD | 7 | GOOD | JB32 |
| 2057 | 2/16/2017 | 260 | 3 | POOR | 3 | POOR | JB32 |
| 2058 | 2/16/2017 | 277 | 3 | POOR | 3 | POOR | JB32 |
| 2059 | 2/16/2017 | 188 | 7 | GOOD | 7 | GOOD | JB18 |
| 2060 | 2/16/2017 | 154 | 8 | GOOD | 8 | GOOD | JB18 |
| 2061 | 2/16/2017 | 188 | 9 | GOOD | 9 | GOOD | JB18 |
| 2062 | 2/16/2017 | 131 | 10 | GOOD | 9 | GOOD | JB17 |
| 2063 | 2/23/2017 | 278 | 7 | GOOD | 7 | GOOD | JB 32 |
| 2064 | 2/23/2017 | 290 | 9 | GOOD | 9 | GOOD | JB 32 |
| 2065 | 2/23/2017 | 368 | 2 | POOR | 2 | POOR | JB 32 |
| 2066 | 2/23/2017 | 23 | 8 | GOOD | 8 | GOOD | JB 32 |
| 2067 | 2/23/2017 | 24 | 9 | GOOD | 9 | GOOD | JB 32 |
| 2068 | 2/23/2017 | 301 | 6 | FAIR | 7 | GOOD | JB 32 |
| 2069 | 2/23/2017 | 548 | 2 | POOR | 2 | POOR | JB 32 |
| 2070 | 2/23/2017 | 481 | 8 | GOOD | 8 | GOOD | JB 32 |
| 2071 | 2/23/2017 | 254 | 10 | GOOD | 10 | GOOD | JB 32 |
| 2072 | 2/23/2017 | 505 | 0 | BLOCK | 0 | BLOCK | JB 32 |
| 2073 | 2/23/2017 | 224 | 9 | GOOD | 9 | GOOD | JB 32 |

Note:

The SL-Rat® first assessment is in the field. Then the SL-Rat® uses GPS coordinates to re-evaluate and correct the score for a more accurate result.

2017 SSES SL-Rat® Report

| Record Number | Measurement Date | Eval. Pipe Length | Assessment | Asmt. Text | GPS Assessment | GPS Asmt. Text | Location |
|---------------|------------------|-------------------|------------|------------|----------------|----------------|-----------------|
| 2683 | 5/5/2017 | 345 | 3 | POOR | 3 | POOR | JB 18 RETEST |
| 2689 | 5/5/2017 | 334 | 3 | POOR | 3 | POOR | JB 32 RETEST |
| 2690 | 5/5/2017 | 219 | 6 | FAIR | 6 | FAIR | JB 32 RETEST |
| 2691 | 5/5/2017 | 322 | 6 | FAIR | 6 | FAIR | JB 32 RETEST |
| 2692 | 5/5/2017 | 232 | 5 | FAIR | 4 | FAIR | JB 32 RETEST |

Note:

The SL-Rat® first assessment is in the field. Then the SL-Rat® uses GPS coordinates to re-evaluate and correct the score for a more accurate result.

Appendix I
2017 Root Control
Chemical Treatment Locations

Project Name: 17-0352

Job# 17-0352

Treated Dates: 04/24/17 - 05/01/17

Report Date:05/04/17

| Treated | Street | Up | | | Down | | | Size | Feet | Guar | End |
|----------|------------------|------|-----|-----------|------|-----|-----------|------|------|------|----------|
| | | Type | Loc | MH | Type | Loc | MH | | | | |
| 04/24/17 | HILLRIDGE CV | M | F | 7000-110 | M | F | 7000-108 | 8 | 168 | | 04/24/19 |
| 04/24/17 | CLOVERDALE DRIV | M | F | 7000-108 | M | F | 7000-106 | 8 | 326 | | 04/24/19 |
| 04/24/17 | CLOVERDALE DRIV | M | F | 7000-109 | M | F | 7000-108 | 8 | 132 | | 04/24/19 |
| 04/24/17 | RIDGECREST STRE | M | B | 7000-474 | M | S | 7000-473 | 15 | 145 | | 04/24/19 |
| 04/24/17 | RIDGECREST STRE | M | S | 7000-475 | M | S | 7000-473 | 15 | 130 | | 04/24/19 |
| 04/24/17 | RIDGECREST STRE | M | S | 7000-296 | M | S | 7000-295 | 8 | 539 | | 04/24/19 |
| 04/24/17 | RIDGECREST STRE | M | S | 7000-295 | M | S | 7000-294 | 8 | 446 | | 04/24/19 |
| 04/25/17 | DOGWOOD LANE | M | S | 7000-329 | M | S | 7000-327 | 6 | 377 | | 04/25/19 |
| 04/25/17 | DOGWOOD LANE | M | F | 7000-326 | M | F | 7000-324 | 6 | 230 | | 04/25/19 |
| 04/25/17 | DOGWOOD LANE | M | D | 7000-325 | M | F | 7000-324 | 6 | 277 | | 04/25/19 |
| 04/25/17 | W HIGHLAND DRIVE | M | S | 7000-1044 | M | S | 7000-1045 | 6 | 244 | | 04/25/19 |
| 04/25/17 | CIRCLE DRIVE | M | S | 700-335 | M | S | 700-334 | 6 | 300 | | 04/25/19 |
| 04/25/17 | CIRCLE DRIVE | M | B | 700-1058 | M | S | 700-334 | 8 | 164 | | 04/25/19 |
| 04/25/17 | DOGWOOD LANE | M | F | 7000-324 | M | F | 7000-323 | 6 | 345 | | 04/25/19 |
| 04/25/17 | PARKVIEW STREET | C | U | 7000-DE | M | F | 7000-417 | 6 | 175 | | 04/25/19 |
| 04/25/17 | PARKVIEW STREET | M | S | 7000-418 | M | F | 7000-417 | 6 | 135 | | 04/25/19 |
| 04/25/17 | PARKVIEW STREET | M | D | 7000-422 | M | S | 7000-420 | 6 | 315 | | 04/25/19 |
| 04/25/17 | WESLEY COURT | M | S | 7000-421 | M | S | 7000-420 | 6 | 221 | | 04/25/19 |
| 04/25/17 | SIMS AVENUE | M | S | 7000-410 | M | S | 7000-405 | 6 | 248 | | 04/25/19 |
| 04/25/17 | HUNTERS RUN CV | M | S | 7000-661 | M | S | 7000-660 | 8 | 275 | | 04/25/19 |
| 04/25/17 | HUNTERS RUN CV | M | S | 7000-662 | M | S | 7000-661 | 8 | 175 | | 04/25/19 |
| 04/25/17 | HUNTERS RUN CV | M | F | 7000-663 | M | F | 7000-662 | 8 | 131 | | 04/25/19 |
| 04/25/17 | HUNTERS RUN CV | M | F | 7000-664 | M | F | 7000-663 | 8 | 75 | | 04/25/19 |
| 04/25/17 | TWIN OAKS AVENU | M | S | 7000-387 | M | S | 7000-386 | 6 | 240 | | 04/25/19 |
| 04/25/17 | CREST DRIVE | M | S | 7000-383 | M | S | 7000-382 | 6 | 246 | | 04/25/19 |
| 04/25/17 | CREST DRIVE | M | S | 7000-383A | M | S | 7000-383 | 6 | 163 | | 04/25/19 |
| 04/25/17 | VALLEY DRIVE | M | S | 7000-384 | M | S | 7000-382 | 8 | 246 | | 04/25/19 |
| 04/25/17 | VALLEY DRIVE | M | S | 7000-376 | M | S | 7000-368 | 8 | 313 | | 04/25/19 |
| 04/25/17 | OWENS AVENUE | M | S | 7000-403 | M | S | 7000-402 | 8 | 300 | | 04/25/19 |
| 04/25/17 | LOCUST DRIVE | M | S | 7000-351 | M | S | 7000-343 | 8 | 344 | | 04/25/19 |
| 04/25/17 | LOCUST DRIVE | M | S | 7000-627 | M | B | 7000-626 | 8 | 205 | | 04/25/19 |
| 04/25/17 | LOCUST DRIVE | M | S | 7000-346 | M | S | 7000-345 | 8 | 262 | | 04/25/19 |
| 04/25/17 | LOCUST DRIVE | M | S | 7000-341 | M | S | 7000-339 | 8 | 357 | | 04/25/19 |
| 04/25/17 | VALLEY DRIVE | M | S | 7000-342 | M | S | 7000-341 | 6 | 342 | | 04/25/19 |
| 04/25/17 | WOOD STREET | M | E | 7000-394 | M | B | 7000-395 | 8 | 189 | | 04/25/19 |
| 04/25/17 | COTTONWOOD STRE | M | S | 700-61 | M | S | 700-60 | 8 | 461 | | 04/25/19 |
| 04/25/17 | COTTONWOOD STRE | M | S | 700-60 | M | S | 700-59 | 8 | 220 | | 04/25/19 |
| 04/26/17 | JENNIFER STREET | M | F | 200-153 | M | F | 200-152 | 8 | 408 | | 04/26/19 |
| 04/26/17 | CRESSENDO DRIVE | M | B | 200-219 | M | F | 200-218 | 6 | 187 | | 04/26/19 |
| 04/26/17 | CRESSENDO DRIVE | M | F | 200-215 | M | F | 200-218 | 8 | 69 | | 04/26/19 |
| 04/26/17 | WATERGATE STREE | M | F | 200-150 | M | F | 200-149 | 8 | 286 | | 04/26/19 |
| 04/26/17 | MITZI LANE | M | S | 200-239 | M | F | 200-238 | 6 | 400 | | 04/26/19 |
| 04/26/17 | GOODWIN CV | M | S | 200-236 | M | S | 200-235 | 6 | 165 | | 04/26/19 |
| 04/26/17 | MITZI LANE | M | E | 200-227 | M | E | 200-225 | 8 | 402 | | 04/26/19 |
| 04/26/17 | CALLEY CV | M | S | 200-226 | M | E | 200-225 | 6 | 163 | | 04/26/19 |
| 04/26/17 | MITZI LANE | M | S | 200-183 | M | S | 200-182 | 8 | 337 | | 04/26/19 |
| 04/26/17 | PRATT CIRCLE | M | S | 200-177 | M | S | 200-176 | 6 | 322 | | 04/26/19 |
| 04/26/17 | E ALPINE STREET | M | F | 200-124 | M | F | 200-122 | 8 | 160 | | 04/26/19 |
| 04/26/17 | MADERA DRIVE | M | F | 500-103 | M | F | 500-102 | 8 | 192 | | 04/26/19 |
| 04/26/17 | WESTERN STREET | M | F | 700-197 | M | P | 700-2 | 6 | 175 | | 04/26/19 |
| 04/26/17 | WESTERN STREET | M | S | 700-3 | M | P | 700-2 | 8 | 360 | | 04/26/19 |
| 04/26/17 | BROOKHAVEN ROAD | M | S | 700-30 | M | E | 700-31 | 8 | 322 | | 04/26/19 |
| 04/26/17 | KENWOOD STREET | M | B | 700-21 | M | B | 700-20 | 6 | 299 | | 04/26/19 |
| 04/26/17 | NEVILLE STREET | M | S | 700-13 | M | S | 700-12 | 8 | 225 | | 04/26/19 |
| 04/26/17 | KENWOOD STREET | M | B | 700-16 | M | S | 700-15 | 6 | 311 | | 04/26/19 |
| 04/26/17 | KENWOOD STREET | M | S | 700-17 | M | B | 700-16 | 6 | 353 | | 04/26/19 |
| 04/26/17 | BROOKHAVEN ROAD | M | D | 700-26 | M | F | 700-14 | 8 | 328 | | 04/26/19 |
| 04/26/17 | BROOKHAVEN ROAD | M | F | 700-27 | M | D | 700-26 | 8 | 325 | | 04/26/19 |

Project Name: 17-0352

Job# 17-0352

Treated Dates: 04/24/17 - 05/01/17

Report Date:05/04/17

| Treated | Street | Up | | | Down | | | Size | Feet | Guar | End |
|----------|-----------------|------|-----|-------------|------|-----|----------|------|------|------|----------|
| | | Type | Loc | MH | Type | Loc | MH | | | | |
| 04/26/17 | ROSEMOND AVENUE | M | S | 8000-484 | M | S | 8000-481 | 8 | 588 | | 04/26/19 |
| 04/26/17 | MERRILL CV | M | F | 8000-482 | M | S | 8000-481 | 8 | 244 | | 04/26/19 |
| 04/26/17 | LOBERG LANE | M | S | 8000-485 | M | S | 8000-484 | 6 | 336 | | 04/26/19 |
| 04/26/17 | BISCAYNE LANE | M | S | 8000-493 | M | F | 8000-492 | 8 | 99 | | 04/26/19 |
| 04/26/17 | BISCAYNE LANE | M | F | 8000-492 | M | F | 8000-487 | 8 | 328 | | 04/26/19 |
| 04/26/17 | DENVER DRIVE | M | F | 8000-494 | M | S | 8000-493 | 8 | 220 | | 04/26/19 |
| 04/27/17 | DENVER DRIVE | M | F | 8000-495 | M | F | 8000-494 | 8 | 146 | | 04/27/19 |
| 04/27/17 | SMOOT DRIVE | M | F | 8000-490 | M | F | 8000-489 | 8 | 240 | | 04/27/19 |
| 04/27/17 | SMOOT DRIVE | M | F | 8000-491 | M | F | 8000-490 | 8 | 262 | | 04/27/19 |
| 04/27/17 | SMOOT DRIVE | M | F | 8000-475 | M | F | 8000-474 | 8 | 107 | | 04/27/19 |
| 04/27/17 | MUNOS LANE | M | S | 8000-470 | M | F | 8000-469 | 8 | 352 | | 04/27/19 |
| 04/27/17 | KYLE COVE | M | F | 8000-468 | M | S | 8000-467 | 6 | 225 | | 04/27/19 |
| 04/27/17 | LOBERG LANE | M | S | 8000-460 | M | S | 8000-459 | 8 | 183 | | 04/27/19 |
| 04/27/17 | LOBERG LANE | M | E | 8000-456 | M | E | 8000-455 | 8 | 87 | | 04/27/19 |
| 04/27/17 | LOBERG LANE | M | E | 8000-455 | M | S | 8000-453 | 8 | 177 | | 04/27/19 |
| 04/27/17 | LOBERG LANE | M | E | 8000-457 | M | E | 8000-456 | 8 | 345 | | 04/27/19 |
| 04/27/17 | BRIARWOOD DRIVE | M | S | 8000-454 | M | S | 8000-453 | 8 | 375 | | 04/27/19 |
| 04/27/17 | ROSEMOND AVENUE | M | S | 8000-480 | M | F | 8000-479 | 8 | 412 | | 04/27/19 |
| 04/27/17 | OVERHILL ROAD | M | S | 8000-436 | M | S | 8000-435 | 8 | 231 | | 04/27/19 |
| 04/27/17 | TANGLEWOOD DRIV | M | D | 8000-465 | M | F | 8000-464 | 8 | 323 | | 04/27/19 |
| 04/27/17 | TANGLEWOOD DRIV | M | F | 8000-466 | M | D | 8000-465 | 8 | 241 | | 04/27/19 |
| 04/27/17 | TERESA CIRCLE | M | F | 8000-478 | M | F | 8000-477 | 8 | 102 | | 04/27/19 |
| 04/27/17 | DUPWE DRIVE | M | B | 700-111A | M | F | 700-111 | 8 | 351 | | 04/27/19 |
| 04/27/17 | BROADMOOR ROAD | | | END OF LINE | M | S | 8000-430 | 8 | 195 | | 04/27/19 |
| 04/27/17 | BROADMOOR ROAD | M | S | 700-128 | M | S | 700-127 | 8 | 160 | | 04/27/19 |
| 04/27/17 | BROADMOOR ROAD | M | S | 700-127 | M | S | 700-112 | 8 | 240 | | 04/27/19 |
| 04/27/17 | BROADMOOR ROAD | M | F | 700-130 | M | F | 700-128 | 8 | 203 | | 04/27/19 |
| 04/27/17 | BROADMOOR ROAD | M | B | 700-129 | M | F | 700-128 | 8 | 250 | | 04/27/19 |
| 04/27/17 | BROADMOOR ROAD | M | B | 700-113 | M | F | 700-112 | 8 | 250 | | 04/27/19 |
| 04/27/17 | WOODSPRINGS ROA | M | F | 700-34 | M | S | 700-33 | 8 | 270 | | 04/27/19 |
| 04/27/17 | WOODSPRINGS ROA | M | S | 700-33 | M | F | 700-41 | 8 | 333 | | 04/27/19 |
| 04/27/17 | LINDEN AVENUE | M | S | 700-55 | M | S | 700-54 | 8 | 210 | | 04/27/19 |
| 04/27/17 | LOCUST AVENUE | M | S | 700-53 | M | S | 700-52 | 8 | 402 | | 04/27/19 |
| 04/27/17 | RICHARD CV | M | S | 800-305 | M | S | 800-304 | 6 | 142 | | 04/27/19 |
| 04/27/17 | SPRING HOLLOW D | M | F | 8000-553 | M | F | 8000-552 | 8 | 329 | | 04/27/19 |
| 04/27/17 | RANKIN DRIVE | M | F | 8000-60 | M | E | 8000-56 | 8 | 190 | | 04/27/19 |
| 04/27/17 | RANKIN DRIVE | M | E | 8000-56 | M | S | 8000-54 | 8 | 173 | | 04/27/19 |
| 04/27/17 | TURTLE CREEK RO | M | U | 8000-70 | M | D | 8000-68 | 8 | 295 | | 04/27/19 |
| 04/28/17 | CLEARWOOD CV | M | S | 8000-120 | M | S | 8000-119 | 8 | 170 | | 04/28/19 |
| 04/28/17 | DEERWOOD DRIVE | M | F | 8000-181 | M | F | 8000-178 | 8 | 412 | | 04/28/19 |
| 04/28/17 | SPRINGWOOD DRIV | M | F | 8000-173 | M | F | 8000-170 | 8 | 330 | | 04/28/19 |
| 04/28/17 | SPRINGWOOD DRIV | M | F | 8000-163 | M | F | 8000-162 | 8 | 124 | | 04/28/19 |
| 04/28/17 | SPRINGWOOD DRIV | M | F | 8000-164 | M | F | 8000-163 | 8 | 109 | | 04/28/19 |
| 04/28/17 | SPRINGWOOD DRIV | M | F | 8000-165 | M | F | 8000-164 | 8 | 212 | | 04/28/19 |
| 04/28/17 | SPRINGWOOD DRIV | M | F | 8000-166 | M | F | 8000-165 | 8 | 112 | | 04/28/19 |
| 04/28/17 | MINX LANE | M | F | 8000-373 | M | E | 8000-372 | 8 | 325 | | 04/28/19 |
| 04/28/17 | BOWDEN DRIVE | M | E | 8000-843 | M | E | 8000-842 | 10 | 400 | | 04/28/19 |
| 04/28/17 | SUTTON DRIVE | M | S | 3000-222 | M | B | 3000-221 | 8 | 300 | | 04/28/19 |
| 04/28/17 | WESTACRE DRIVE | M | S | 3000-153 | M | S | 3000-148 | 12 | 313 | | 04/28/19 |
| 04/28/17 | MITCHELL DRIVE | M | S | 1000-96 | M | E | 1000-100 | 8 | 340 | | 04/28/19 |
| 04/28/17 | SAMANTA AVENUE | M | F | 1000-44 | M | D | 1000-43 | 8 | 453 | | 04/28/19 |
| 04/28/17 | ARCH STREET | M | S | 2000-69 | M | S | 2000-68 | 8 | 143 | | 04/28/19 |
| 04/28/17 | ARCH STREET | M | S | 2000-70 | M | S | 2000-69 | 8 | 448 | | 04/28/19 |
| 04/28/17 | ARCH STREET | M | S | 2000-77 | M | S | 2000-68 | 8 | 356 | | 04/28/19 |
| 04/28/17 | NETTLETON AVENU | M | B | 2000-55 | M | B | 2000-54 | 10 | 370 | | 04/28/19 |
| 04/28/17 | MAURITA STREET | M | B | 12000-30A | M | B | 12000-30 | 8 | 195 | | 04/28/19 |
| 04/28/17 | MAURITA STREET | M | B | 12000-23 | M | B | 12000-22 | 8 | 172 | | 04/28/19 |
| 04/28/17 | HICKOX DRIVE | M | F | 12000-17 | M | F | 12000-16 | 6 | 84 | | 04/28/19 |

Project Name: 17-0352

Job# 17-0352

Treated Dates: 04/24/17 - 05/01/17

Report Date:05/04/17

| Treated | Street | Up | | | Down | | | Size | Feet | Guar | End |
|----------|-----------------|------|-----|------------|------|-----|------------|------|------|----------|-----|
| | | Type | Loc | MH | Type | Loc | MH | | | | |
| 04/28/17 | HICKOX DRIVE | M | B | 12000-18 | M | F | 12000-17 | 6 | 231 | 04/28/19 | |
| 04/28/17 | HICKOX DRIVE | M | F | 12000-16A | M | F | 12000-16 | 6 | 190 | 04/28/19 | |
| 04/28/17 | BURKE AVENUE | M | E | 400-137 | M | S | 400-2 | 8 | 302 | 04/28/19 | |
| 04/28/17 | CHESTNUT STREET | M | S | 400-136 | M | E | 400-137 | 8 | 197 | 04/28/19 | |
| 04/28/17 | WESTWOOD DRIVE | M | S | 700-89 | M | S | 700-87 | 8 | 375 | 04/28/19 | |
| 04/28/17 | WESTWOOD DRIVE | M | B | 700-93 | M | F | 700-91 | 8 | 199 | 04/28/19 | |
| 04/28/17 | WESTWOOD DRIVE | M | P | 700-94 | M | B | 700-93 | 8 | 262 | 04/28/19 | |
| 04/28/17 | BROADMOOR ROAD | M | B | 700-83 | M | F | 700-82 | 8 | 247 | 04/28/19 | |
| 04/29/17 | LAKEWOOD DRIVE | M | F | 14000-589 | M | F | 14000-1195 | 8 | 187 | 04/29/19 | |
| 04/29/17 | LAKEWOOD DRIVE | M | F | 14000-1195 | M | F | 14000-588 | 8 | 214 | 04/29/19 | |
| 04/29/17 | JILL DRIVE | M | F | 14000-819 | M | F | 14000-818 | 8 | 259 | 04/29/19 | |
| 04/29/17 | BROOKE MCQUEEN | M | S | 15000-573 | M | F | 15000-572 | 8 | 103 | 04/29/19 | |
| 04/29/17 | BROOKE MCQUEEN | M | F | 15000-572 | M | F | 15000-556 | 8 | 385 | 04/29/19 | |
| 04/29/17 | KITCHEN STREET | M | S | 6000-400 | M | S | 6000-399 | 8 | 115 | 04/29/19 | |
| 04/29/17 | S BRIDGE STREET | M | S | 8000-156 | M | S | 8000-155 | 6 | 245 | 04/29/19 | |
| 04/29/17 | STRAWN AVENUE | M | S | 600-86A | M | S | 600-86 | 6 | 194 | 04/29/19 | |
| 04/29/17 | OLIVE STREET | M | S | 600-69 | M | S | 400-110 | 10 | 367 | 04/29/19 | |
| 04/29/17 | APPLE DRIVE | M | E | 500-186 | M | S | 500-185 | 8 | 235 | 04/29/19 | |
| 04/29/17 | COURTNEY CV | M | E | 500-211 | M | E | 500-224 | 8 | 150 | 04/29/19 | |
| 04/29/17 | COURTNEY CV | M | E | 500-210 | M | E | 500-211 | 8 | 82 | 04/29/19 | |
| 04/29/17 | WESTERN STREET | M | S | 700-4 | M | S | 700-3 | 8 | 420 | 04/29/19 | |
| 04/29/17 | AGGIE ROAD | M | E | 5000-174 | M | E | 5000-170 | 12 | 348 | 04/29/19 | |
| 04/29/17 | N HUNTER LANE | M | F | 5000-207 | M | F | 5000-206 | 8 | 222 | 04/29/19 | |
| 04/29/17 | MARZEE ANN DRIV | M | F | 5000-232 | M | F | 5000-231 | 8 | 334 | 04/29/19 | |
| 04/29/17 | AGGIE ROAD | M | F | 5000-234 | M | F | 5000-233 | 8 | 53 | 04/29/19 | |
| 04/29/17 | AGGIE ROAD | M | F | 5000-235 | M | F | 5000-234 | 8 | 152 | 04/29/19 | |
| 04/29/17 | MARZEE ANN DRIV | M | F | 5000-233 | M | F | 5000-232 | 8 | 115 | 04/29/19 | |
| 04/29/17 | CORNERSTONE DRI | M | F | 1000-427 | M | F | 1000-425 | 8 | 190 | 04/29/19 | |
| 04/29/17 | APPLEWOOD TERRA | M | B | 1000-386 | M | F | 1000-385 | 8 | 288 | 04/29/19 | |
| 04/29/17 | VICKIE DRIVE | M | F | 1000-285 | M | S | 1000-284 | 8 | 441 | 04/29/19 | |
| 05/01/17 | RUSSELL DRIVE | M | P | 5000-112 | M | D | 5000-86 | 8 | 217 | 05/01/19 | |
| 05/01/17 | SYLVAN HILL DRI | M | S | 5000-110 | M | S | 5000-109 | 8 | 269 | 05/01/19 | |
| 05/01/17 | SYLVAN HILL DRI | M | S | 5000-109 | M | S | 5000-108 | 8 | 268 | 05/01/19 | |
| 05/01/17 | SYLVAN HILL DRI | M | S | 6000-108 | M | S | 5000-110 | 8 | 76 | 05/01/19 | |
| 05/01/17 | SYLVAN HILL DRI | M | B | 5000-364 | M | S | 6000-111 | 6 | 83 | 05/01/19 | |
| 05/01/17 | SYLVAN HILL DRI | M | S | 5000-108 | M | S | 5000-107 | 8 | 229 | 05/01/19 | |
| 05/01/17 | GLEN PLACE | M | F | 15000-562 | M | S | 15000-561 | 8 | 70 | 05/01/19 | |
| 05/01/17 | GLEN PLACE | M | F | 15000-561 | M | F | 15000-560 | 8 | 118 | 05/01/19 | |
| 05/01/17 | GLEN PLACE | M | F | 15000-560 | M | F | 15000-559 | 8 | 297 | 05/01/19 | |
| 05/01/17 | FRIERSON STREET | M | E | 600-189 | M | S | 600-188 | 8 | 397 | 05/01/19 | |
| 05/01/17 | FRIERSON STREET | M | E | 600-190 | M | E | 600-189 | 8 | 380 | 05/01/19 | |
| 05/01/17 | JAMES STREET | M | E | 600-191 | M | E | 600-190 | 8 | 146 | 05/01/19 | |
| 05/01/17 | JAMES STREET | M | E | 600-192 | M | E | 600-190 | 8 | 233 | 05/01/19 | |

Manhole Type Codes:

C Clean Out
H House Number
L Line Number
M Manhole Number

Manhole Location Codes:

A Alley
B Backyard
E Easement (woods or no building)
F Front Yard
L Left Side Yard(when facing front)
R Right Side Yard(when facing front)
S Street
U Unknown

Break Down:

10 1,137
12 661
15 275
6 7,963
8 30,083
Total: 40,119