



Albuquerque Bernalillo County Water Utility Authority

Field Division
Collection System Section
4201 Second Street SW
Albuquerque, New Mexico 87105

July 15, 2022

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Website
www.abowua.org

Ms. Nancy Williams
US EPA Region 6
1201 Elm Street, Suite 500 (ECDWA)
Dallas, Texas 75270-2102

SUBJECT: Docket No. VI-92-1129- NPDES Permit No. NM 0022250

Dear Ms. Williams:

Enclosed is a copy of a condition report documenting a collection system overflow. The overflow occurred at 6100 Iliff Rd. NW on July 10, 2022 at 5:54 p.m. This serves as the 5-day letter to EPA, PO1 and NMED SWQB and 7-day letter to NMED GWQB.

U.S. Environmental Protection Agency was notified by an email on July 11, 2022 at 4:00 p.m. New Mexico Environment Department received verbal notification on July 11, 2022 at 3:58 p.m. Pueblo of Isleta was notified by an email on July 11, 2022 at 4:00 p.m. and was notified verbally of a Category One SSO immediate notifications were made between 12:45 and 1:00 a.m. on July 11, 2022.

If further information is needed, please call Angelo R. Baca, Collection System Asst. Superintendent, Field Division, at (505) 289-3435.

Sincerely,

Danielle Shuryn
Manager Compliance Division, Water Utility Authority

DS: arb

Enclosure(s)

Cc: Jason Martinez, Municipal NPDES Specialist, NM Env. Dept. Surface Water Quality Bureau
Governor, Pueblo of Isleta
Ramona M. Montoya, Pueblo of Isleta
Mark Holstad P.E. Collection System Manager, Field Division
Angelo R. Baca, Collection System Asst. Superintendent, Field Division
Stanley R. Allred, CFO/COO, Water Utility Authority
Justin D. Ball, P.G., Bureau Chief - NM Env. Dept. Ground Water Quality Bureau



**Albuquerque Bernalillo County
Water Utility Authority
Field Division / Collection Section**

SSO NOTIFICATION

The front page is for SSO Notifications for typical SSOs which does not reach the Rio Grande, or if they reach an MRGCD facility, are fully contained. For SSOs that have or are anticipated to reach the Rio Grande, or reach an MRGCD facility and will not be fully contained, make immediate phone notifications per the back of this form.

.....
This is (**Reporting party's name**) Angele Baca with the Albuquerque Bernalillo County Water Utility Authority,

Permit # NM0022250. I am reporting a Sanitary Sewer Overflow (SSO) that occurred at

(**SSO address**) 6100 ILiff Rd. N.W. on (**Date of SSO**) 07/10/22

The time of the SSO was reported at (**Time SSO reported**) 5:54 ☐ AM ☒ PM and was stopped at approximately

(**Date SSO was stopped, Time**) On Going : ☐ AM ☐ PM. There was approximately (**Estimated**

volume) 8 million Total gallons of raw sewage spilled into the (**Ultimate discharge location for SSO**)

5 MG to Rio Grande at I-40 + 3 MG to West Bluff Pond

The actions taken (**Remedy of what actions taken to clean the area**) On Going Spill.

Major clean up will occur after spill stops.

Example: Ultimate Discharge Location-(Arroyo (Concrete), Arroyo (Dirt), Parking Lot, Storm Sewer, Street Pavement, Street Dirt, Rio Grande, Conservancy Ditch/Drain, and Yard).

Example: Action Taken-(Combination Cleaning, Captured WW, Removed Pool WW / Wash Down Area / Treated with Chlorine, Removed Solids, Bermed Area, and Removed Contaminated Soil).

.....
Email: * EPA / Environmental Protection Agency & Pueblo of Isleta

Date 7/11/22
Time 4:00 AM ☐ PM ☒

Email Distribution Procedure:

Xerox Preprogrammed Method:

- Select "Scan To."
- Select "Device Address Book."
- Select contact "SSO, SSO (sso@abcwua.org)."
- Select "Scan."
- Assure Xerox machine confirms form delivery has been "Completed."

In the event of Xerox machine being unavailable for use, follow the alternative method below:

- Capture image with device. For example, take a picture using your phone.
- Email image to SSO group (sso@abcwua.org) and Cc yourself to confirm delivery.

.....
Call: NMED / New Mexico Environment Department

Date 7/11/22 1 (505) 827-0187

Time 3:58 AM ☐ PM ☒ Left Message Or Spoke with Stephanie Martinez

.....

Reporting Signature

Category One Notifications to Pueblo of Isleta (POI)

A Category One SSO will reach the Rio Grande or will reach an MRGCD facility and is not fully contained. For a Category One SSO, immediately make the following calls in sequence until a live person is reached. Note the time each person was reached or in the event there is no answer, leave a message on each number.

Immediately is understood to mean the following.

1. Follow the current OERP. The current OERP is posted on the public website at www.abcwua.org/sewer-collection-section/
2. In the event the spill has reached an MRGCD facility, first call the MRGCD to alert them as they may be able to close off flow and prevent the spill from reaching the POI.
3. The Supervisor will contact their Superintendent or the Collection Section Chief Engineer and jointly make a determination that Category One SSO conditions apply. In the event that the Superintendent and Chief Engineer cannot be contacted, contact the Field Division Manager. They will be responsible for alerting the Chief Operations Officer and / or the Public Information Officer and the Supervisor will complete the remaining actions.
4. Make calls as listed to the POI. The normal verbal notification information will not be fully known, and the calls should be made without all the normal information. Be prepared to tell each POI Representative the following:
 - a. Your name.
 - b. The location of the SSO.
 - c. Where the spill reached. If you do know the name of the drain, provide it. If not, just identify the approximate location and state that a drain has been reached. There can be subsequent calls.
 - d. You will not know the volume. Do not wait to compute this.
 - e. It is very possible the spill is ongoing when you call. It is not necessary to stop the overflow to make the calls.
 - f. If an MRGCD contact has been reached and is mobilizing, provide that information and the name.

POI Category One Protocol					Call 7/11/2022			
Contacts					Note Time where Applicable			
					Cell		Office	
Position	Name	Cell Number	Office Number		Live Person Reached	Message Left	Live Person Reached	Message Left
1st	Emergency Dispatch	N/A	N/A	505.869.3030			12:45 AM	
2nd	Environmental Specialist, Water Quality Control Officer	Ramona Montoya	505.263.5425	505.869.7565		12:49 AM		12:51 AM
3rd	Transportation Services Manager	James Weldon	505.933.1225	505.869.9833	12:54 AM			
4th	Water Resources Manager	Derek Jarner	505.503.0530	505.869.7566		12:58 AM		1:00 AM

*** Email Addresses:**

SSO email address (sso@abcwua.org) consists of the following Permit required notifications to EPA and POI, as well as other individuals:

National Pollutant Discharge Elimination System (NPDES): r6_npdes_reporting@epa.gov
 Isleta Pueblo: notifications@isletapueblo.com



Water Utility
Authority

Albuquerque Bernalillo County
Water Utility Authority
Field Division / Collection Section
Condition Report

SR# 23088
WO# 2109416
Date Reported 07/10/2022
Time Crew Notified 6:30 ☐ AM ☒ PM
Time Crew Arrived 7:50 ☐ AM ☒ PM
Supervisor George Cardona

Name Tina Phone Number (505) 908-4670
Property Owner or Reporter

Reported
Location

From Manhole

MAP# MH#

J10090

To Manhole

MAP# MH#

J10191

Line Type

RCP

Line Dia.

48"

Occupant
Notified

☐ Yes
☒ No

Address No. 6100 Street Name ILiff Street Type Rd Quad NW
Intersecting Street 64th & Hanover

☐ 40 Sewer Backup Comments: _____ ☐ con't. on back

☒ 42 AS - Manhole Overflow

Time of SSO 5:54 ☐ AM ☒ PM 07/10/2022
Time SSO Stopped 12:00 ☐ AM ☒ PM 07/12/2022
Duration of SSO 30 hrs. 06 mins.
Amount Spilled (estimated) 6.74 million gallons
Amount Removed (estimated) 3 million gallons
(In Progress)

ENVIRONMENTAL IMPACT

- ☐ Evidence Of Fish Kill
☐ No Evidence Of Adverse Health / Env. Impact
☒ Observed Or Evidence of Env. Impact
☐ Observed Or Evidence of Human Contact

ULTIMATE DISCHARGE LOCATION

- ☐ Arroyo (Concrete)
☐ Arroyo (Dirt)
☐ Conservancy Ditch/Drain
☐ Parking Lot
☒ Rio Grande
☐ Storm Drain (requires immediate removal of
Sewage and documentation below,
or follow-up w/W.O.)*
☐ Street (Dirt)
☐ Street (Pavement)
☐ Yard
☐ Other _____

*Storm Drain Cleaning Documentation

Yes No
☐ ☒ Wash water applied and removed from Storm Drain

If yes, provide information below

Address/Intersection of Inlet to the Storm Drain

Address/Intersection of Removal from Storm Drain

Amount Recovered (estimated)

3 million gallons from West Bluff Pond

☒ Additional Vector(s) Called Out

Unit #(s) 194702/144701 Operator(s) Raymond Garcia
Michael Leeds

If so, provide information below

Reason for Second Vector or Other Information

Mitigate and Persist with Multiple
overflows (10-42)

☒ 48 Property Damage - Risk Management

List Damages Multiple Locations:

6100 ILiff Rd. NW - Quality Inn West (Still
evaluating La Quinta and Hampton), and
2560 Coors Blvd NW

Claim Adjusters Name Joe Klaus Year of Home _____

- Yes No
☒ ☐ Were Pictures Taken
☐ Does Home Have Basement
☐ Does Home Have Back Water Valve
☐ Is Floor Elevation Below Upstream Manhole

Comments and / or Recommendations

1st Review Action To Be Taken

- ☐ Clean _____ Segments
☐ Upstream _____ Downstream _____
Date / /
☐ Televis The Line Date
 / /

☐ Adjust PM Interval:

Freq. In weeks Seq. # Activity #

- ☐ 4 wks.
☐ 12 wks.
☐ 24 wks.

Date Set: / / Int.:

- ☐ Root Saw Date / /
☐ Root Foam Date / /
☐ Notify Pretreatment Date / /
☐ No Further Action Date / /
Collection Sys. Eng.:
Date / /

CORRECTIVE MAINTENANCE



CM#

276091

SR#

23088

WO#

2109416

FROM MANHOLE

TO MANHOLE

MAP #

MH #

J 1 0 0 9 0

FLOW DIRECTION



J 1 0 1 9 1

DEPTH RIM TO INVERT
FEET INCHES

Albuquerque Bernalillo
County Water Utility Authority
Field Division / Collection Section

DATE COMPLETED

MTH 07 DAY 12 YEAR 2022

TIME 07/10/22 AM ☐ PM ☒
NOTIFIED 6:30

TIME 7:50 AM ☐ PM ☒
ARRIVED

TIME 12:00 AM ☒ PM ☐
COMPLETED 07/12/2022

BLOCK # 6100

STREET I Liff

DESIGNATION Rd QUAD NW

REPORTED AS

- ☐ 40 SEWER BACK-UP - NO DAMAGE
☐ 41 SEWER TROUBLE
☒ 42 SEWER OVERFLOWING

- ☐ 43 SEWER LEAK
☐ 44 CAVE-IN
☐ 45 BROKEN MANHOLE COVER
☐ 46 MISSING MANHOLE COVER
☐ 47 LOOSE MH COVER

- ☐ 48 PROPERTY BACK-UP / DAMAGE
☐ 49 FOLLOW UP
☐ 52 SEWER ODOR
☐ 62 LINESPOT
☐ 63 MH NOT TO GRADE

PROBLEM FOUND

- ☐ 40 SEWER BACK-UP - NO DAMAGE
☐ 41 SEWER TROUBLE
☒ 42 SEWER OVERFLOWING
☐ 43 SEWER LEAK

- ☐ 44 CAVE-IN
☐ 45 BROKEN MANHOLE COVER
☐ 46 MISSING MANHOLE COVER
☐ 47 LOOSE MANHOLE COVER
☐ 48 PROPERTY BACK-UP/DAMAGE

- ☐ 49 FOLLOW-UP
☐ 52 SEWER ODOR
☐ 62 LINESPOT
☐ 63 MH NOT TO GRADE
☒ AS AUTHORITY SEWER
☐ NAS NON-AUTHORITY SEWER

CAUSED BY

- ☐ CO CONSTRUCTION
☐ CU CAUSE UNKNOWN
☐ DB DEBRIS

- ☐ EQ EQUIP FAILURE
☐ GR GREASE
☒ LF LINE FAILURE
☐ RGR ROOTS / GREASE

- ☐ RGS RAGS
☐ RN RAINFALL
☐ RK ROCKS
☐ RT ROOTS
☐ SGG SAND, GRIT OR GRAVEL
☐ BP BURP
☐ V VANDALISM

ACTION TAKEN

- ☒ CC COMBINATION CLEANING
☐ CHUTE
☐ CATCH SCREEN
☐ PIPE WOLF
☐ ULTIMATE CHISEL
☐ TWISTER
☐ DREDGER
☐ PRIMUS
☐ SUPER FLUSHIER
☐ GRENADE
☐ JPX SLED ASY
☐ JETSCAN

- ☐ CC CONTINUED
☒ WEDGE
☐ COMMANDER
☐ HYDROSURGE
☐ ROOT SAW
☐ HTH TREATED W/CHLORINE
☐ IN INSPECT
☐ LS LINESPOT
☐ MC MH COVER REPLACED
☐ MS MH COVER SECURED
☐ PN PUBLIC NOTIFICATION
☐ PO PUMP OUT

- ☒ CWW CAPTURED WASTEWATER
☐ DT DYE TEST
☐ BR BERMED AREA TO CONT. SSO
☐ RCS REMOVED CONTAMINATED SOIL
☒ RP REMOVED POOLED WASTEWATER
☒ RS REMOVED SOLIDS
☐ SI SETTLEMENT INVESTIGATED
☐ SM SMOKE TEST
☒ WD WASH DOWN AREA
☐ ENC REF. TO ENG/CONT.
☐ ET EMPTY DEBRIS TANK
☐ CT CUT INTRUDING TAP

☐ OTHER

PIPE LENGTH

DISTANCE FROM MANHOLE
TO MANHOLE 915 FT

PIPE BLOCKAGE

DISTANCE FROM DS MH
TO BLOCKAGE 815 FT

PIPE SIZE

- ☐ 4 INCH ☐ 10 INCH ☐ 12 INCH ☐ 18 INCH ☐ 20 INCH ☐ 24 INCH ☐ 27 INCH ☐ 30 INCH ☐ 36 INCH ☐ 42 INCH ☐ 48 INCH ☐ 54 INCH ☐ 60 INCH ☐ 66 INCH ☐ 72 INCH ☐ 78 INCH

PIPE TYPE

- ☐ CIP CAST IRON PIPE ☐ PE POLYETHYLENE (SLIPLINE) ☐ VCP VITRIFIED CLAY
☐ CPN STANDARD CONCRETE ☐ PVC POLYVINYL CHLORIDE
☐ DIP DUCTILE IRON PIPE ☒ RCP REINFORCED CONCRETE

VEHICLE NO.

1 0 8 7 7 5 0 1

RADIO #

2 2 6

EMPLOYEE ID #

REMARKS

Line Collapse To T, TLC Contractor

☐ MORE ON BACK

OPERATOR'S SIGNATURE

Christopher Padeco
GC.

SUPERVISOR'S SIGNATURE

Boyd Carter



Memo

To: Danielle Shurn
Compliance Division Manager

From: Mark S. Holstad, PE *Mark S. Holstad*
Field Division Collection Section Manager / Chief Engineer

Date: July 15, 2022

Re: SSO – July 10-11, 2022 – 64th-I40

Overview

The sanitary sewer overflow (SSO) that started on July 10, 2022, was caused by a structural collapse of the 48-inch pipe between manholes J10-090 (upstream) and J10-191 (downstream). Due to the topography and the disrupted flow, spills occurred over a large area about 3 miles between the southernmost (downstream) and northernmost (upstream) spills. This was a 6.7 million gallon SSO where 3.7 million gallons were discharged to the river and the Albuquerque Bernalillo County Water Utility Authority (Water Authority) will diligently take steps to prevent it from recurring.

The emergency response was rapid because the teams had practiced the plan, on call contractors were available for bypass support and partner agency resources were utilized immediately. The cooperation between the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA) and the Water Authority resulted in the reduction of 3 million gallons (MG) of the spill to the Rio Grande because it was captured in AMAFCA's water quality pond. The Water Authority was able to immediately respond and eliminate overflows approximately 31 hours after the spill was first reported. This response consumed all pump and hose capacity in the Albuquerque metropolitan area. The Water Authority completed the immediate notifications as required in the NPDES permit for category 1 spills.

Collapse and Resulting SSO Hydraulics and Locations

See attached Attachment A-Sewer Collapse and Spill Location Map. Segment J10-191 to J10-090 collapsed on July 10, 2022. An SSO occurs when flow is sufficiently restricted that the detained flow volume exceeds the upstream volume available in pipes and manholes below the lowest manhole rim or plumbing fixture. The SSO was first reported at 5:54 p.m. Sunday, July 10, 2022 and was caused by the collapse. The collapse occurred on an interceptor with significant flow that could not be relieved by a single spill from a single collapse point or even several manholes. Based on reports from the contractor operating by-pass pumping for a major downstream rehabilitation project, we believe that all flow in the interceptor was blocked and none continued downstream. The upstream pipe therefore continued to fill and more, and more, manholes spilled as the water level rose as the cumulative release from multiple manholes was inadequate in comparison to the upstream flow.

The interceptor is flat (0.0006 ft/ ft) in accordance with accepted criteria at the time of original design and construction. As a result, and because of a lesser rim to invert dimension, the farthest upstream spill was approximately 3 miles upstream of the most downstream spill.

Many spill locations occurred in this SSO resulting from a single collapse. While nearly overwhelmed, the Water Authority Dispatch (505-842-WATR) handled the calls, assigned Service Requests documented in Maximo, and Water Authority crews responded.

The spills from this SSO primarily, but not exclusively, flowed to the City of Albuquerque drainage system. Attachment A identifies five spill areas based on where the flow routed within the drainage systems. Four of the five flowed to City storm drainage systems. Table 2 - Spill Locations and Volumes provides estimated volumes in each of the areas. During preparation of this report, it was identified that two relatively small spills occurred that did not flow to the West Bluff Pond or to the discharge outlets to the Rio Grande at I40. The estimated 100-gallon spill at Area 5 is believed to have dried at the pervious area around the manhole and had no downstream impact. The estimated 54,000-gallon spill drained through the City storm pipes that route to Sequoia and then discharges to Rio Grande. I spoke with the City (David Harrison, Engineering Division Manager) and confirmed the discharge point. I inspected the discharge at 7 p.m. on July 13 and observed no indication of remaining spill or solids.

Cause of Collapse

The Water Authority has initiated the rehabilitation of the immediately downstream portion of the same interceptor that collapsed. By-pass pumping commenced on July 7 for this downstream project. The Water Authority believes that this by-pass pumping surcharged the upstream interceptor that collapsed. The interceptor apparently was corroded, and surcharging saturated the soil above the interceptor. The soil lost cohesion and collapsed into the pipe, blocking all flow.

The Water Authority had instituted by-pass provisions to prevent surcharging in unlined pipes upstream of I40. However, the pipe that collapsed was thought to have been previously rehabilitated and was not included in these provisions. As discussed below, this is a gap and will be addressed.

Timeline – Fundamental Events and Actions

See Table 1 - Response Timeline.

Table 1 Response Timeline

Date	Time	Event
7/10/2022	Unknown	Collapse of 48-inch Interceptor 815 feet from MH J10-090 (see map Area 1)
	5:54 PM	Spill Reported to Dispatch at 6100 Iliff Rd. NW (see map Area 2)
	7:50 PM	Water Authority Crew arrives at the site (see map Area 1)
	8:00 PM	Emergency On-Call Contractor (TLC) mobilizes at the site
	8:00 PM	Spill Reported to Dispatch at Estancia and Juniper (see map Area 3)
	10:24 PM	Water Authority coordinates with AMAFCA to utilize West Bluff Pond to prevent as much sewage as possible from entering the Rio Grande River
7/11/2022	12:45 AM	Water Authority alerts Pueblo of Isleta and MRGCD that sewage will be discharged to the Rio Grande River (see Category One Notification Form)
	12:45 AM	Emergency On-Call Contractor (TLC) starts first 6" bypass pump to send sewage to the West Bluff Pond
	2:00 AM	Emergency On-Call Contractor (TLC) adds second 6" pump
	4:00 AM	Emergency On-Call Contractors (TLC/RMCI) add two additional 6" pumps
	6:00 AM	Spill Reported to Dispatch near Corona and Redlands (Area 4)
	7:00 AM	Spill Reported to Dispatch near Dellyne and Arabian (Area 5)
	9:00 AM	Emergency On-Call Contractors (TLC/RMCI) install first 12" pump
	11:00 AM	Emergency On-Call Contractors (TLC/RMCI) install second 12" pump
	12:00 PM	Emergency On-Call Contractor (Southwest Sewer) onsite to assist with pooled wastewater clean-up at collapse site
	3:58 PM	Water Authority completes 24-Hour SSO Notification to NMED by phone (see SSO Notification Form)
	4:00 PM	Water Authority completes 24-Hour SSO Notification to EPA/Pueblo of Isleta by email (see SSO Notification Form)
7/12/2022	12:00 AM	Final Spill Stops at Area 2 (Iliff Rd. and Estancia)
7/13/2022	5:00 AM	Water Authority Crews begin to pump out sewage from the West Bluff pond to the sewer system

Centralized Engineering / Construction Response

Dispatch receives and documents customer reports of SSOs. Because this SSO occurred on a weekend, the Standby Supervisor was called and responded. The Standby Supervisor quickly recognized the magnitude of the SSO and called for Centralized Engineering support. The Centralized Engineering Chief Engineer responded. It was quickly identified that the interceptor had collapsed, and by-pass pumping was the required remediation.

See Attachment C - Bypass Pumping Vicinity Map which identifies the collapse location, the interim by-pass pumping installed to this point and long term by-pass that will allow rehabilitation of the pipe that collapsed.

TLC is the current On-Call contractor tasked with responding to interceptor emergencies. TLC responded and installed its pumping capacity. The Chief Engineer identified that this pumping rate was inadequate and immediately, and unprecedentedly, called in a second On-Call contractor. RMCI brought additional pumps, which, in sum, pump more than the largest interceptor flow in the Water Authority's system.

Once installed, the net sum of the pumps was greater than the upstream flow and pulled down the stored volume upstream of the blockage. Because the stored volume was higher vertically than the blockage, spills continued but sequentially dropped and stopped in elevation as this volume was removed and pumped downstream. This is further discussed below.

Attachment B- SWRP Hourly Flow Data Comparison and Bypass Pumping Capacity Table which provides further insights.

West Bluff Pond Temporary Storage

At 10:24 p.m., July 10, Jerry Lovato, AMAFCA Executive Engineer was contacted. We met on-site and determined to utilize the West Bluff Pond to hold the maximum spill volume so that it could later be pumped back into the collection system. AMAFCA staff mobilized and by 2:45 a.m. July 11 had stopped flow from the Pond. See below for further discussion.

Spill Volume

The 24-hour SSO Notification is Permit required and provides an initial estimate of the volume spilled. Through additional analysis, it has been determined that this initial estimate was high and therefore a revised estimate is provided.

The Water Authority maintains accurate flow monitoring at the Southside Water Reclamation Plant (SWRP). An analysis determined that the total spill was 6.74 MG. See Attachment B - SWRP Hourly Flow Data Comparison and Bypass Pumping Capacity Table. Of this, approximately 3 MG is estimated to be held at the West Bluff Pond. The Water Authority estimate is therefore a total 6.7 MG spill with 3.7 MG reaching the Rio Grande. Table 2 provides approximate spill volumes and location in the 3-mile radius.

Table 2 – Spill Volumes and Locations

				Estimated Time Spilling	
Map Areas	Spill Location Description	Ultimate Discharge Location	Estimated Volume (gallons)	Estimated Start Time (Spill reported)	Estimated End Time
1	64th and Hanover	West Bluff Pond Removed	5,200,000	6:00pm Sunday	12:00am Tuesday
2	Iliff and Estancia	River	1,000,000	7:30pm Sunday	12:00am Tuesday
3	Estancia and Juniper/ Ouray and Corona	West Bluff Pond and River	490,000	8:00pm Sunday	4:00pm Monday
4	Redlands and Corona	River	54,000	6:00am Monday	1:30pm Monday
5	Dellyne and Arabian	Dirt Surface	100	7:00am Monday	11:00am Monday
Total			6,744,100		
Estimated Sewage Retained in Pond			3,000,000		
Estimated Sewage Discharge to the Rio Grande			3,744,100		

Cleanup

The Water Authority followed its Overflow Emergency Response Plan (OERP) for sanitary sewer overflows in the collection system. The OERP is posted to the Water Authority website at

https://www.abcwua.org/wp-content/uploads/Sewer_system/OERP_12012019.pdf. Once the spills ceased at a particular location, Water Authority Vector crews washed down the area and removed the wash water and solids. The Water Authority street sweeper was utilized for final cleanup at some street and parking lot locations. HTH, dry chlorine, was not utilized in response to this SSO to prevent impacts to aquatic life in the Rio Grande.

Public Notifications and Site Inspection

Immediate and 24 hour notifications were completed as required in the permit on July 11, 2022. River samples for E.coli were collected at four stream locations and two press releases (attachment D) were put out. On Tuesday July 12, the Water Authority issued a press release (attachment D) and Water Authority staff attended a coordination meeting with Pueblo of Isleta and Middle Rio Grande Conservancy District to discuss the emergency response and current status. It was agreed that river samples would be collected at the 4 locations each day and the results would be shared so that E. coli data can be available to show the status of the river until it returns to baseline conditions. In the late afternoon, EPA contacted the Water Authority and notified them of a site inspection the next morning at 9:30AM. On July 13, 2022, the EPA and NMED inspected the site of the collapse, the outfall to the river and the storage pond. Other entities in attendance were AMAFCA and the Pueblo of Isleta. River sampling results have been emailed out to all interested parties each day. Downstream notification was made to Elephant Butte Lake Park.

Notice of Discharge Removal and Corrective Action Response

In response to New Mexico Water Quality Control Commission Regulations (20.6.2.1203 NMAC), the Water Authority is submitting the attached information to constitute a Notice of Discharge Removal and Corrective Action Response Report for your notification and approval.

Conclusion and Corrective Action Responses

Approximately 3 MG of sewage was spilled to and contained by the West Bluff Pond. This Pond is a water quality feature owned and managed by AMAFCA. AMAFCA temporarily closed off the Pond outlet, retaining this sewage and preventing its release to the Rio Grande. AMAFCA also closed off the Pond to through-flow of storm water, however, during run-off events the pond does “float” with the drainage system and will slowly fill to an equilibrium elevation. Two storms have occurred since the sewage was trapped and slow flow into the Pond was observed during each storm event.

The Water Authority commenced pumping from the Pond approximately 5 a.m. on Wednesday, July 13. Pumping ended Thursday afternoon due to surcharging in the discharge manhole. Full removal of the remaining sewage is anticipated next week when system surcharging is resolved. Due to the volume removed to date, the remaining water is diluted. Once the Pond is pumped down, debris will be removed and disposed.

The Water Authority followed its Overflow Emergency Response Plan (OERP) for sanitary sewer overflows in the collection system. The OERP is posted to the Water Authority website at https://www.abcwua.org/wp-content/uploads/Sewer_system/OERP_12012019.pdf. Page 3 addresses specific issues related to spills to pervious areas in which, remediation consists removing the wastewater, controlling access, and allowing to dry which completes remediation. This is in addition to steps noted elsewhere in the OERP, e.g., remove solids as noted on page 2.

Based on the analysis and remedial steps taken, it is concluded that temporary ponding of sewage at West Bluff Pond will have little effect to the public health or to the ground water or environment in the area.

Identified Gap

A gap has been identified. The Water Authority's GIS in at least one instance, identified a critical pipe asset as being a non-corrosive material rather than the proper corrosive material. The Water Authority will respond as follows:

1. In future rehab projects, the Water Authority will address future uncertainties in actual, vs GIS, identifications.
2. The Water Authority will CCTV all lines originally constructed as RCP and identified in GIS as rehabilitated.

Attachment A – Sewer Collapse and Spill Location Map



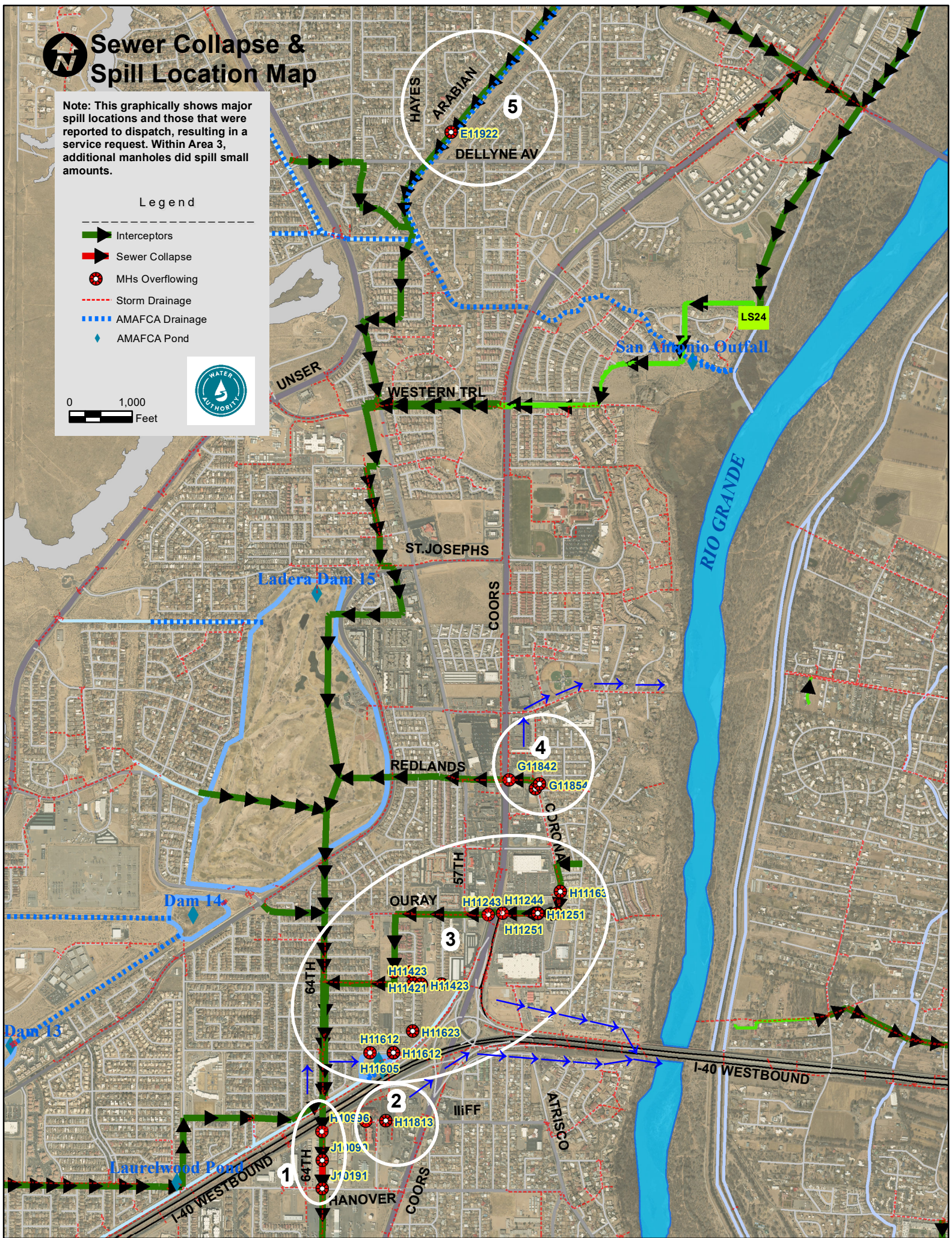
Sewer Collapse & Spill Location Map

Note: This graphically shows major spill locations and those that were reported to dispatch, resulting in a service request. Within Area 3, additional manholes did spill small amounts.

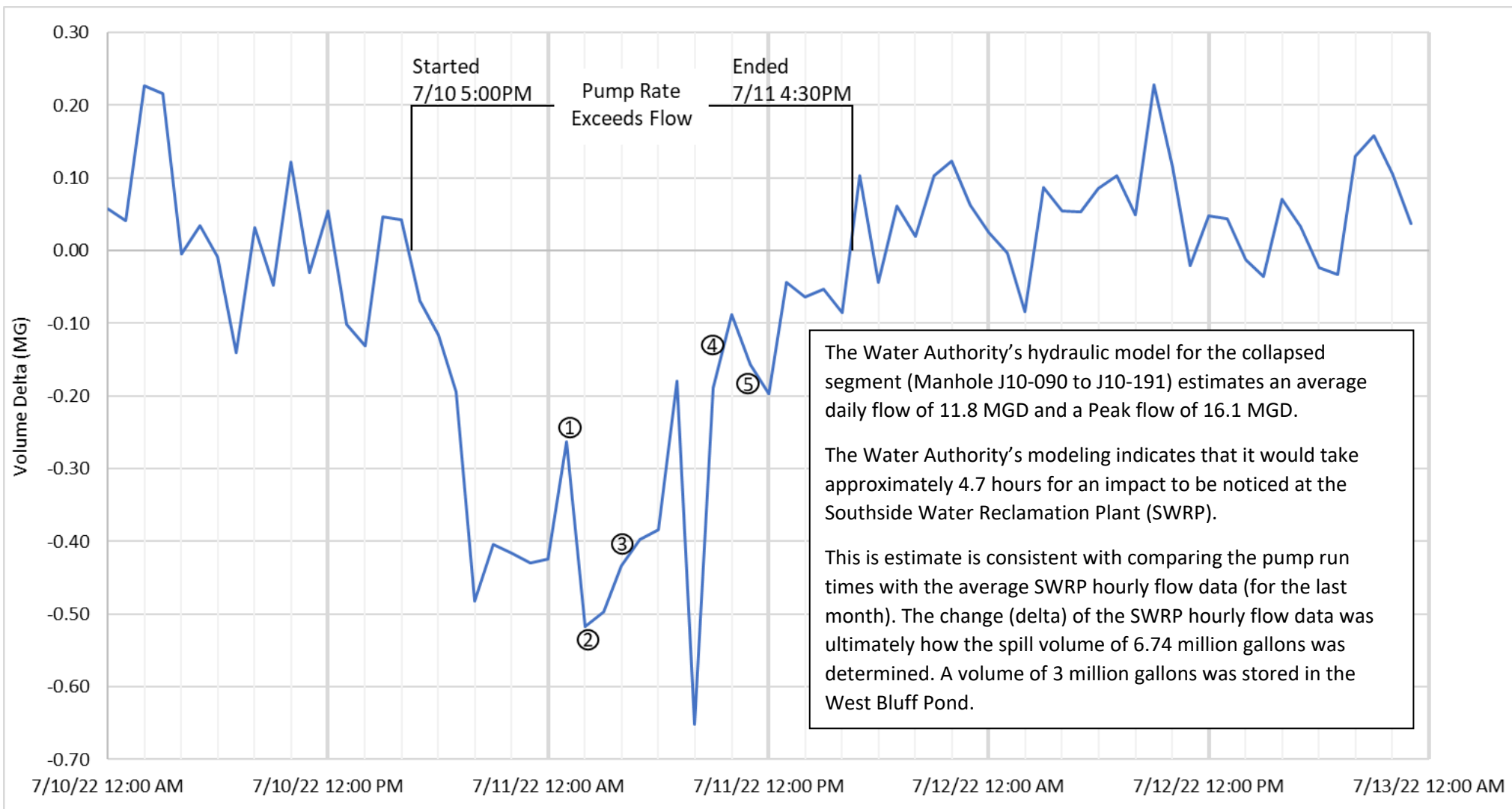
Legend

- Interceptors
- Sewer Collapse
- MHs Overflowing
- Storm Drainage
- AMAFCA Drainage
- AMAFCA Pond

0 1,000 Feet



**Attachment B – SWRP Hourly Flow Data Comparison and Bypass Pumping Capacity
Table**



<u>Event (as identified on graph)</u>	<u>Interim Bypass Pumps</u>	<u>Time on 07/11/2021</u>	<u>Estimated Pump Capacity (MGD)</u>
1	(1) 6" Pump Running	1:00 AM	1.5
2	(2) 6" Pumps Running	2:00 AM	3
3	(4) 6" Pumps Running	4:00 AM	6
4	(1) 12" Pump and (4) 6" Pumps Running	9:00 AM	17.5
5	(2) 12" Pumps and (4) 6" Pumps Running	11:00 AM	29.0

*Total Estimated Pumping Capacity

Attachment C – Bypass Pumping Vicinity Map

Vicinity Map

64th/Hanover Westside Interceptor Collapse - Emergency



Attachment D – Press Releases

From: "Morris, David R." <dmorris@abcwua.org>

Date: July 11, 2022 at 7:43:43 AM MDT

Subject: UPDATE—EMERGENCY REQUEST TO REDUCE WATER USE ON WEST SIDE

7:35 AM—Water Authority personnel and contractors continue to work on repairs to the collapsed sewer line near Coors and 64th. We are continuing to ask Westside residents to LIMIT WATER USE AND FLUSHING THIS MORNING in order to reduce flows to the broken pipe.

The 48" pipe collapsed last night, causing extensive overflows as well as backups into homes and businesses.

David Morris
Water Authority Public Affairs
505-264-5691



Albuquerque Bernalillo County Water Utility Authority

NEWS RELEASE

UPDATE: Major Sewer Line Collapse on West Side

Residents asked to limit water use during repairs

CONTACT: David Morris, 505-264-5691

JULY 11, 2022 – Water Authority personnel and contractors have been working since Sunday night to address a collapsed 48-inch sewer line on 64th Street west of Coors Boulevard near Hanover.

Workers are setting up a bypass pumping system to manage sewer flows through the line, which serves the majority of Albuquerque's West Side. Meanwhile, the Water Authority is asking residents west of the river to limit their water use for the next few days in order to facilitate repairs and prevent backups into homes and businesses. Damage to property so far has been limited to two commercial properties and one residence, according to the utility's Risk Management department.

The utility hopes to have the bypass system completely operational by this evening to handle West Side flows while repairs are underway to the collapsed line. Permanent repairs may take several weeks.

Because overflows from the collapse have entered the community's storm drains and migrated into the Rio Grande south of Interstate 40, the Water Authority has notified the New Mexico Environment Department, the Environmental Protection Agency, Isleta Pueblo, the Middle Rio Grande Conservancy District (MRGCD) and Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA) and is coordinating necessary steps to mitigate the environmental impact of the spill. Residents are warned not to swim in the river downstream of I-40 and to avoid any sewage standing in streets or gutters.

The suspected cause of the collapse is the age of the sewer pipe, which according to utility records was installed in 1963 and has been identified as high priority for replacement. Other sections of the same line are already undergoing rehabilitation but the affected area was not under construction at the time of the collapse.

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Albuquerque Bernalillo County Water Utility Authority

NEWS RELEASE

Day 3 Update on West Side Sewer Collapse

Residents asked to limit water use through end of week

CONTACT: David Morris, 505-264-5691

JULY 12, 2022—A temporary bypass pumping system is in place and successfully diverting flows around a collapsed sewer pipe that caused backups and overflows on Albuquerque's West Side on Sunday and Monday of this week. Construction of a permanent bypass pump system to be used while the damaged pipeline is under repair will be ongoing through the end of the week.

Water Authority engineers are asking that West Side residents limit water use (washing machines, dishwashers) for the rest of the week. This will allow sewage that built up in upstream pipes over the past two days to make its way through the bypass system, which is handling sewer flows from most of Albuquerque's West Side.

Cleanup of spilled sewage on streets and sidewalks continues today. Overflows of sewage into the Rio Grande via the storm drain system have ceased, and the Water Authority is following EPA and New Mexico Environment Department requirements to determine the extent of the permit violations caused by the spill.

The 48-inch sewer pipe, located on 64th Street near Hanover and Coors Boulevard, was installed in 1963. Other sections of the same line are undergoing rehabilitation but the affected area was not under construction at the time of the collapse.

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Attachment E: Photographs from Monday and Tuesday July 11 & 12, 2022

1. Storm outfall and sample collection downstream



2. Street flow and storm pond



3. Sink hole



4. Tuesday July 12 Sample Collection

