

EXHIBIT A

Smoke Test Reports

Work Order 2200956

Printed: 10/04/2018 8:45 am

Work Order Activity:

Activity: WCCTV3 SMOKE TESTING

Asset Information:

Unit ID: From - to -

Descript:

Comp Type: FEQ - Fleet Equipment

Address:

City:

X Coord: 1.00

Y Coordinate: 1.00

Z Coordinate: 1.00

Map Nbr:

Area:

Sub Area:

Qualifier:

Work Order Information:

Initiated: 07/26/2018

Source: RI - Ransomware Incident

Authorization: W102 - KIMBRY PEEK

Init By: ADRIAN MORRIS

Maint Type: INSP - INSP

Assigned: ARKIETHON L HARDEN

Scheduled: 07/26/2018

Problem: CVN01 - CAVEIN-ST/SW SINK

Responsibility: UNI162

Due Date: 07/31/2018

Priority: P2 - 5 DAYS

Reference #:

Project: -

Service Request:

Budget #: 170212 - WASTEWATER COLLECTION DI

Group Project:

Started: 07/26/2018

Cancel WO: N

Closed: 07/26/2018

Result: COMP - WORK COMPLETED

Closed By: ANTWON L FALLIN

Condition: -

Hours: 1.50

Usage: 0.00

Actual Qty: 0.00

Address: 1071 PIEDMONT AVE

City: ATLANTA, GA 30309

Work Order Comments:

Work Order Logs:

Log Type:

Log By: W100

Log From Date: 07/26/2018

Log To Date: 07/26/2018

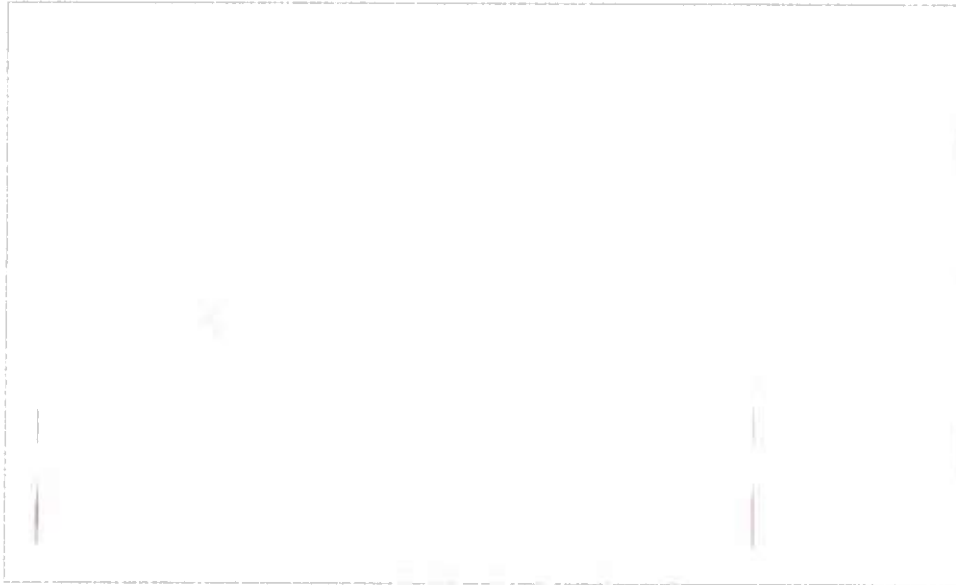
Crew performed smoke test at the upstream manhole did not identify smoke in the building where the cavein is located. Crew smoked for approximately 1 hour.

Work Order Tasks:

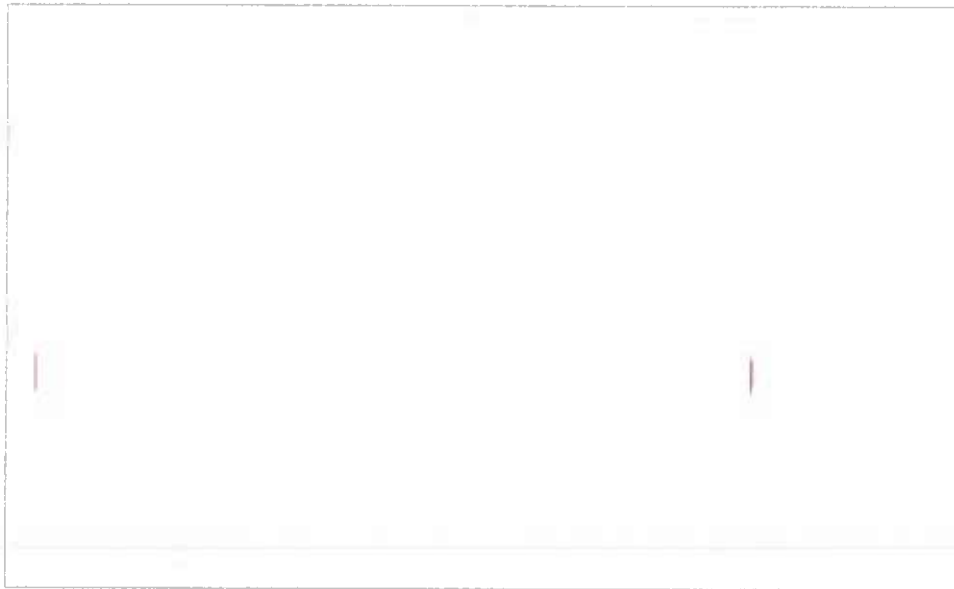
SMOKE TEST PHOTOS

UPSTREAM MANHOLE: _____	SEWERSHED: _____
DOWNSTREAM MANHOLE: _____	DATE: _____
CREW: _____	_____

COMMENTS: *Catchbasin is located in front of the building.
address 1071 Piedmont Ave NE*



LEAK NO: _____ PHOTO FILENAME: _____



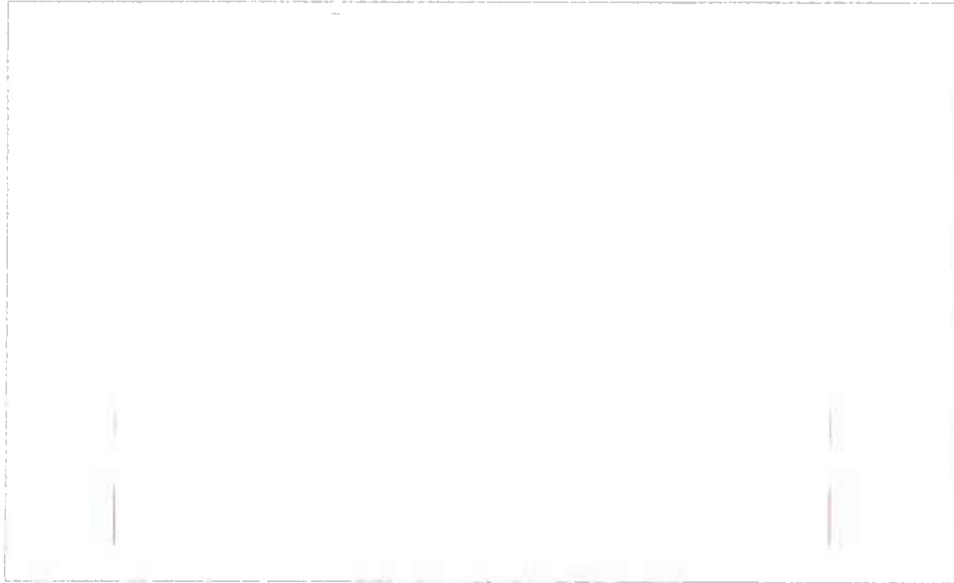
LEAK NO: _____ PHOTO FILENAME: _____



SMOKE TEST PHOTOS

UPSTREAM MANHOLE: _____	SEWERSHED: <i>Peachtree Creek</i>
DOWNSTREAM MANHOLE: _____	DATE: _____
CREW: <i>Recon Crew</i>	_____

COMMENTS: *UNKNOWN Manhole that don't exist on the map in front of 1071 Piedmont Ave NE.*



LEAK NO: _____ PHOTO FILENAME: _____



LEAK NO: _____ PHOTO FILENAME: _____



Power Smoker
with 1425cc Honda
HURCO

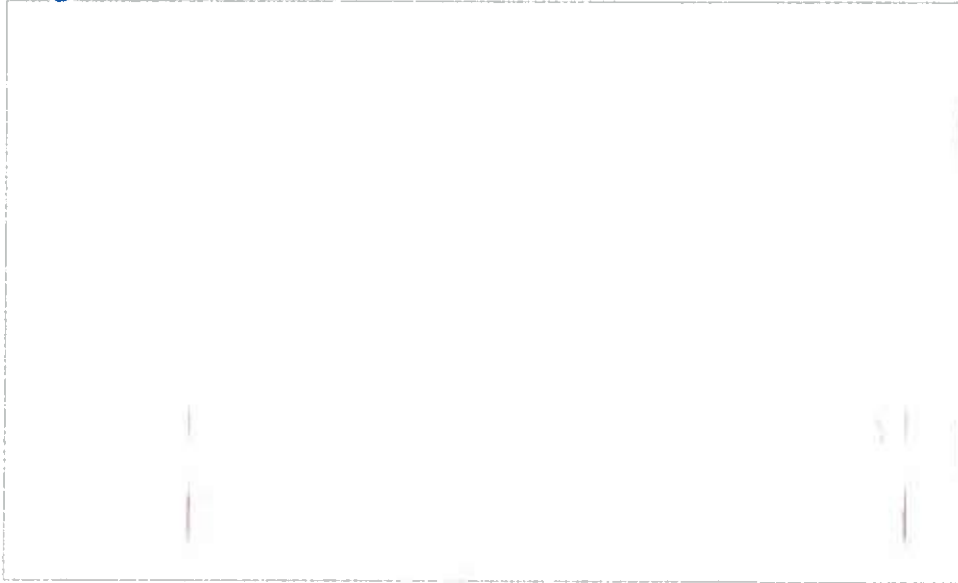
HOTTER'S
ALL-PURPOSE
BUCKET
1 Gallon

PROPERTY OF THE CITY OF LOS ANGELES
1970

SMOKE TEST PHOTOS

UPSTREAM MANHOLE:	SEWERSHED:
DOWNSTREAM MANHOLE: <u>23370108201</u>	DATE:
CREW: <u>Recon Crew</u>	

COMMENTS: This manhole is located behind the building.



LEAK NO: _____ PHOTO FILENAME: _____



LEAK NO: _____ PHOTO FILENAME: _____



SMOKE TESTING REPORT

UPSTREAM MANHOLE: . . .23370108301

PROJECT: Annual Sanitary Sewer Repair Contract

DOWNSTREAM MANHOLE: . 233701018201

SEWERSHED: PTC24

DATE: 09/21/2018 SMOKE TEST TEAM: -SEAN HOWARD Samuel Williams Mashawn Johnson

SOURCE ADDRESS /LOCATION	GPS ID	RESULTS	STATUS	SOURCE	SMOKE	RUN OFF	CCTV Y/N
1.1071 Piedmont Ave MH	MH	1	2	MFC	3	1	Y Photo # 1
2.1055 Piedmont AVE CBX	CBX	1	2	CBX	3	5	N Photo # 2
3.1071 Piedmont Ave CBX	CBX	1	2	CBX	3	5	N Photo# 3
4.1071 Piedmont Ave RLD	RLD	1	1	RLD	2		N Photo # 4
5.1071 Piedmont Ave Inside Blding		3					Y Photo # 5
6.1071 Piedmont CBX	CBX	1	2	CBX	1	5	N Photo # 6

RESULTS CODES

- 1 POSITIVE
- 2 SUSPECT
- 3 NEGATIVE
- 4 CANNOT TEST

STATUS CODES

- 1 PRIVATE
- 2 PUBLIC

SOURCE TYPE CODES

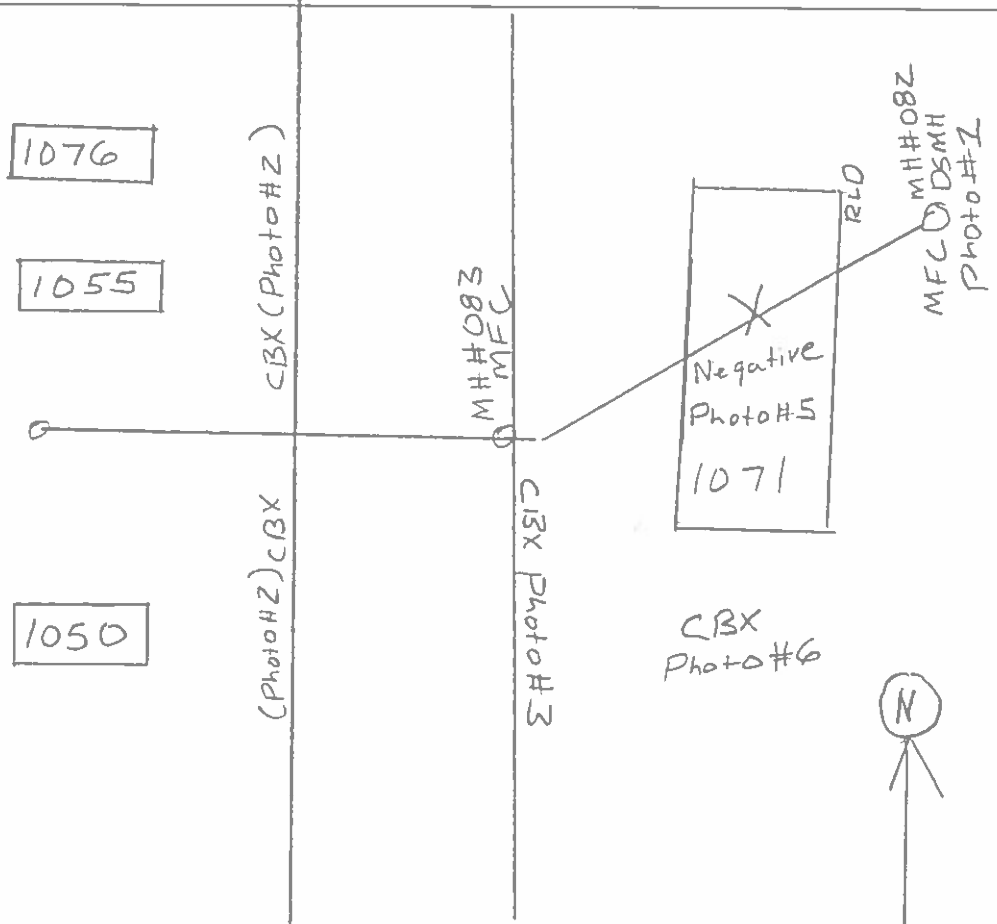
- 1 BS ABANDONED SERVICE
- 2 D AREA DRAIN
- 3 CO BROKEN CLEANOUT
- 4 BX CATCH BASIN
- 5 EP DEFECTIVE PLUMBING
- 6 WD DRIVEWAY DRAIN
- 7 XP EXPOSED PIPE
- 8 CL FRAME COVER LEAKS
- 9 DD FOUNDATION DRAIN
- 0 L SOIL FISSURES
- 1 SD FISSURES IN STORM DITCH
- 2 CC MISSING CO COVER
- 3 FC MANHOLE FRAM COVER
- 4 HS MANHOLE STRUCTURE
- 5 LK MULTIPLE SOIL FISSURES
- 6 LD ROOF LEADER CONNECT
- 7 MH STORM MANHOLE
- 8 WD STAIRWELL DRAIN
- 9 WD WINDOW WELL DRAIN

SMOKE CODES / INTENSITY

- 1 LIGHT
- 2 MEDIUM
- 3 HEAVY

RUNOFF CODES

- 1 NO PAVING
- 2 25% PAVING
- 3 50% PAVING
- 4 75% PAVING
- 5 100% PAVING



**Critical Sanitary and Storm Sewer Improvements Contract Section 01532E –
Smoke Testing City of Atlanta**

SMOKE TESTING PHOTOS	Photo # 1
UPSTREAM MANHOLE 23370108301	
DOWNSTREAM MANHOLE 23370108201	
DATE 9/26/2018	CONTRACTOR. COA CREW. COA



**Critical Sanitary and Storm Sewer Improvements Contract Section 01532E –
Smoke Testing City of Atlanta**

SMOKE TESTING PHOTOS

Photo # 2

UPSTREAM MANHOLE 23370108301

DOWNSTREAM MANHOLE 23370108201

DATE 9/26/2018

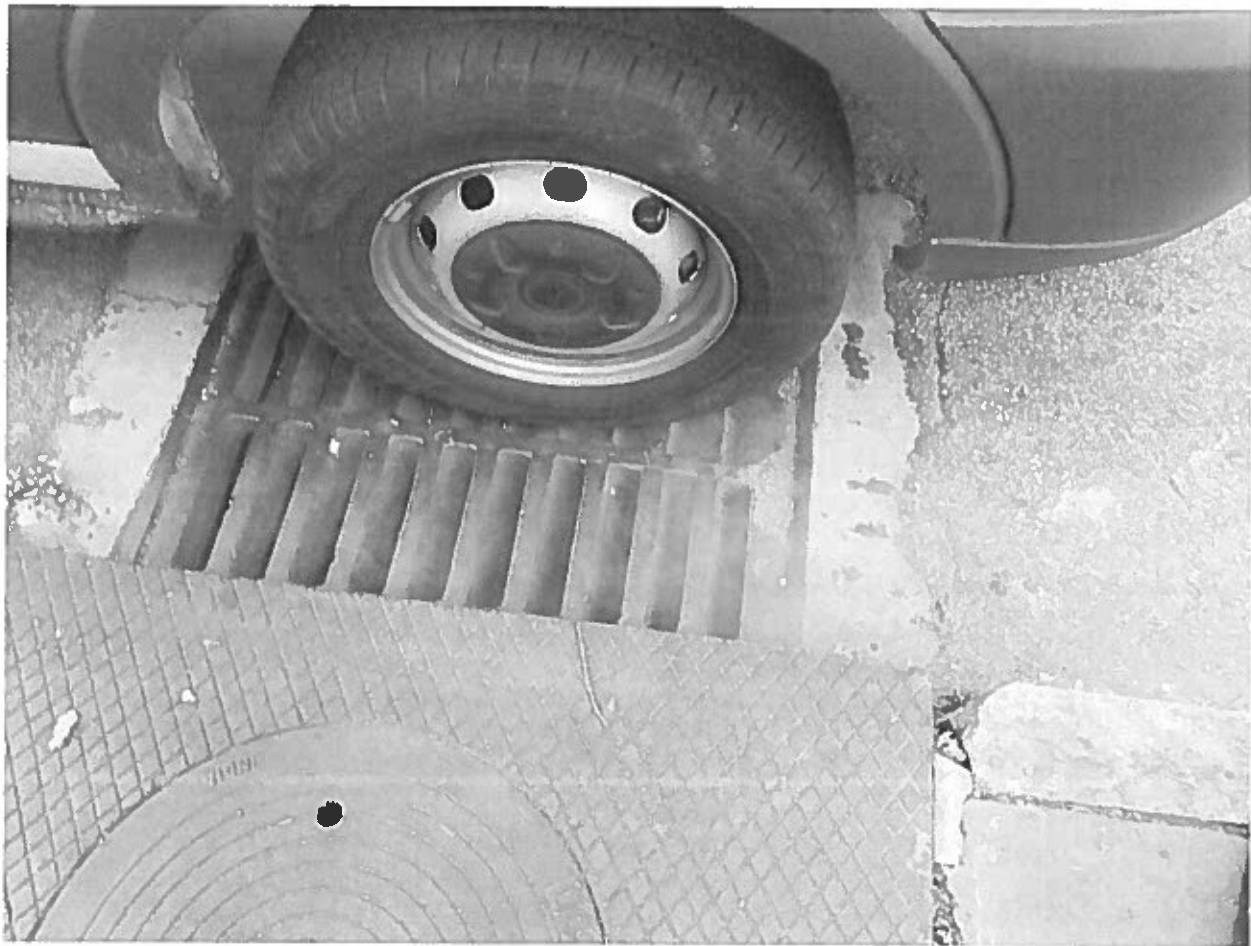
CONTRACTOR. COA

CREW. COA



**Critical Sanitary and Storm Sewer Improvements Contract Section 01532E –
Smoke Testing City of Atlanta**

SMOKE TESTING PHOTOS		Photo # 3	
UPSTREAM MANHOLE 23370108301			
DOWNSTREAM MANHOLE 23370108201			
DATE 9/26/2018		CONTRACTOR. COA	CREW. COA



**Critical Sanitary and Storm Sewer Improvements Contract Section 01532E –
Smoke Testing City of Atlanta**

SMOKE TESTING PHOTOS	Photo #4	
UPSTREAM MANHOLE 23370108301		
DOWNSTREAM MANHOLE 23370108201		
DATE 9/26/2018	CONTRACTOR. COA	CREW. COA



**Critical Sanitary and Storm Sewer Improvements Contract Section 01532E –
Smoke Testing City of Atlanta**

SMOKE TESTING PHOTOS	Photo #5
UPSTREAM MANHOLE 23370108301	
DOWNSTREAM MANHOLE 23370108201	
DATE 9/26/2018	CONTRACTOR. COA CREW. COA



**Critical Sanitary and Storm Sewer Improvements Contract Section 01532E –
Smoke Testing City of Atlanta**

SMOKE TESTING PHOTOS	Photo #6
UPSTREAM MANHOLE 23370108301	
DOWNSTREAM MANHOLE 23370108201	
DATE 9/26/2018	CONTRACTOR. COA CREW. COA



EXHIBIT B

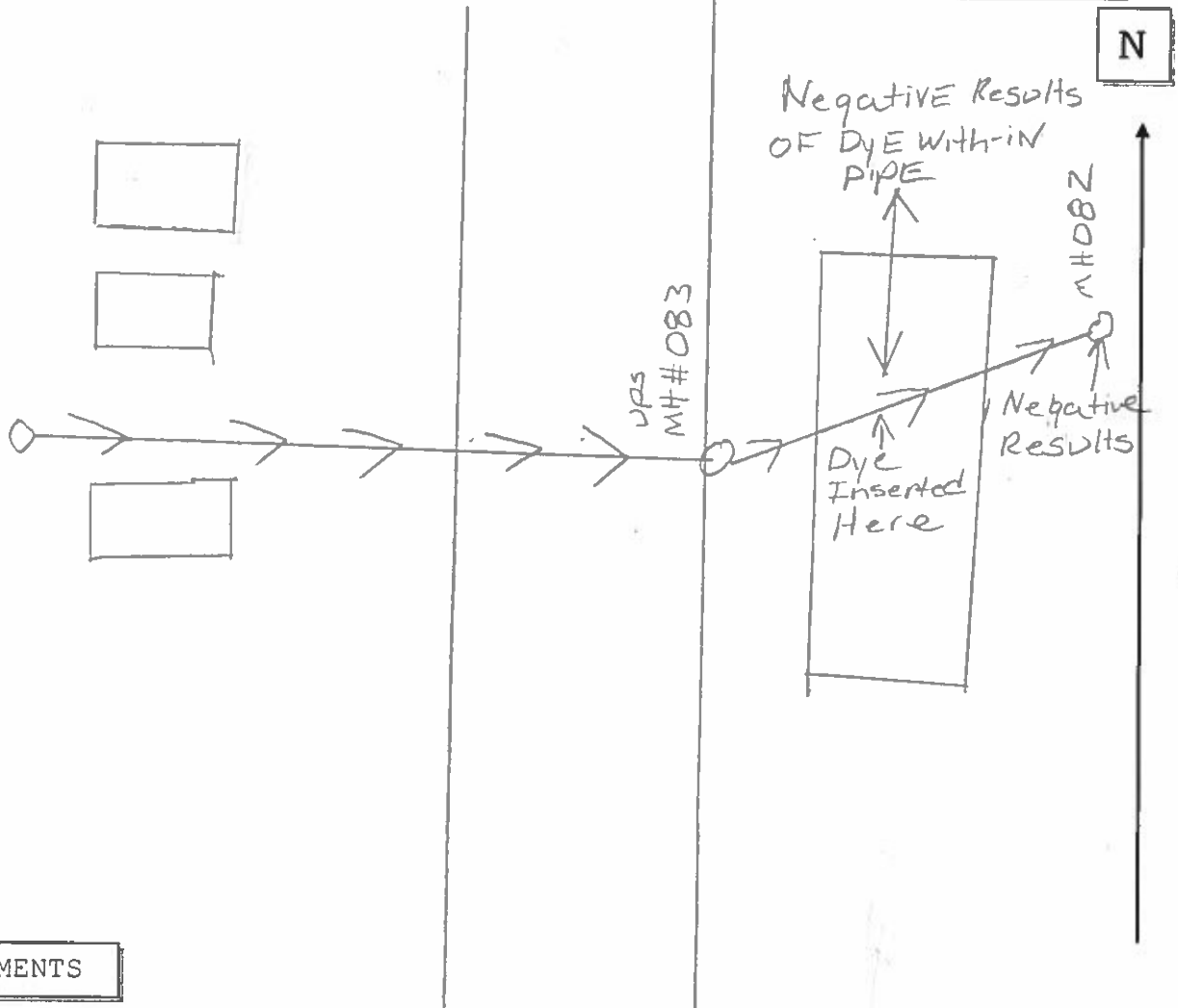
Dye Test Reports

(EXAMPLE)
DYE TESTING REPORT

SERIAL NUMBER

1. UPSTREAM MANHOLE	23370108301
2. DOWNSTREAM MANHOLE	23370108201
3. DATE	9 / 24 / 2018
DYE TESTING TEAM SEAN HOWARD SAMUEL WILLIAMS Mashawn Johnson	

PERSONNEL



DYE TESTING PHOTOS

1. UPSTREAM MANHOLE: 23370108301

2. DOWNSTREAM MANHOLE 23370108201

3. DATE: 09 /28 / 2018

DYE TESTING TEAM: Sean Howard, Samuel Williams, Mashawn Johnson



EXHIBIT C

CCTV Reports

Work Order 2200680

Printed: 10/04/2018 8:35 am

Work Order Activity:

Activity: WCTV04 CCTV LINE

Asset Information:

Unit ID: From - to -

Descript:

Comp Type: FEQ - Fleet Equipment

Address:

City: ,

X Coord: 1.00

Y Coordinate: 1.00

Z Coordinate: 1.00

Map Nbr:

Area:

Sub Area:

Qualifier:

Work Order Information:

Initiated: 07/23/2018

Source: RI - Ransomware Incident

Authorization: W102 - KIMBRY PEEK

Init By: ADRIAN MORRIS

Maint Type: INSP - INSP

Assigned: ARKIETHON L HARDEN

Scheduled: 07/23/2018

Problem: CVN01 - CAVEIN-ST/SW SINK

Responsibility: WM161

Due Date:

Priority: P2 - 5 DAYS

Reference #:

Project: -

Service Request:

Budget #: 170212 - WASTEWATER COLLECTION DI

Group Project:

Started: 07/24/2018

Cancel WO: N

Closed: 07/24/2018

Result: -

Closed By: ANTWON L FALLIN

Condition: -

Hours: 2.50

Usage: 0.00

Actual Qty: 17.00 LF

Address: 1071 PIEDMONT AVE NE

City: ATLANTA, GA 30309

Work Order Comments:

Work Order Logs:

Log Type:

Log By: W100

Log From Date: 07/24/2018

Log To Date: 07/24/2018

Entered MH# 23370108201 televised only 17Ft upstream against the flow Survey was abandon due to large debirs stopping the camera from walking. However crew dye test cavein for 1 hour and no dye showed or water volume picked up. The cavein never filled up which means the watre is going somewhere. This location needs more investigation.

Work Order Tasks:

Work Order 2200003

Printed: 10/04/2018 8:37 am

Work Order Activity:

Activity: WCTV04 CCTV LINE

Asset Information:

Unit ID: From - to -

Descript:

Comp Type: FEQ - Fleet Equipment

Address:

City:

X Coord: 1.00

Y Coordinate: 1.00

Z Coordinate: 1.00

Map Nbr:

Area:

Sub Area:

Qualifier:

Work Order Information:

Initiated: 07/19/2018

Source: R1 - Ransomware Incident

Authorization: W102 - KIMBRY PEEK

Init By: ADRIAN MORRIS

Maint Type: INSP - INSP

Assigned: ARKIETHON L HARDEN

Scheduled:

Problem: CVN02 - CAVEIN-SEW MAIN I

Responsibility: WM161

Due Date:

Priority: P2 - 5 DAYS

Reference #:

Project: -

Service Request:

Budget #: 170212 - WASTEWATER COLLECTION DI

Group Project:

Started: 07/19/2018

Cancel WO: N

Closed: 07/19/2018

Result: INCOMP - WORK NOT COMPLETED

Closed By: EBONY J ALLEN

Condition: -

Hours: 1.00

Usage: 0.00

Actual Qty: 17.90 LF

Address: 1071 PIEDMONT AVE NE

City: ATLANTA, GA 30309

Work Order Comments:

This location needs further investigation from Recon Group.

Work Order Logs:

Log Type:

Log By: W100

Log From Date: 07/19/2018

Log To Date: 07/19/2018

Entered MH# 23370105501 and televised downstream with the flow a total of 17.1Ft could not complete due to a sharp bend in the pipe. Crew dye test cavein no dye showed while televising.

Work Order Tasks:

View of PACP 6.0 inspection

Upstream MH to Downstream MH

Downstream inspection

PSR Upstream MH		PO number	Status	Date	Time	Weather		
			Completed	09/25/2018	15:53:26	Dry		
Street		City		Owner				
Piedmont Avenue		Atlanta						
Customer	Surveyor name	Certificate number	L surv (ft)	Total I (ft)				
	Jeffrey D Beard	U0318070300116	168.0					
Location code	Location details	H (i)	W (i)	Shape	Material	Pre-cleaning	Date cleaned	Sewer use
Light Highway	Downstream MH is behind ...	54	36	Rectangular	ZZZ	N		CB
Upstream MH	U R to I (ft)	U G to I (ft)	U R to G (ft)	Downstream MH	D R to I (ft)	D G to I (ft)	D R to G (ft)	
Upstream MH				Downstream MH				
Direction of survey	Flow control	Drainage area	Lining method	Pjl (ft)	Year laid	Year renewed	Sewer category	
Downstream							Combined	
Video name		Media label	Additional info			Purpose	Sheet	
Upstream MH_1619_09_25_2018.mpg							1	

Dist (ft)	Code	CD	Observation	At	1st	2nd	%	Jt	Remarks	Img
			<Start inspection>							
0.0	AMH		Manhole					No	Starting manhole: Upstream MH	X
0.0	MWL		Water Level				10	No		X
68.9	TB		Tap Break-in	4	18.000			No		X
168.0	AMH		Manhole					No	Finishing manhole: Downstream MH	X
			<Finish inspection>							

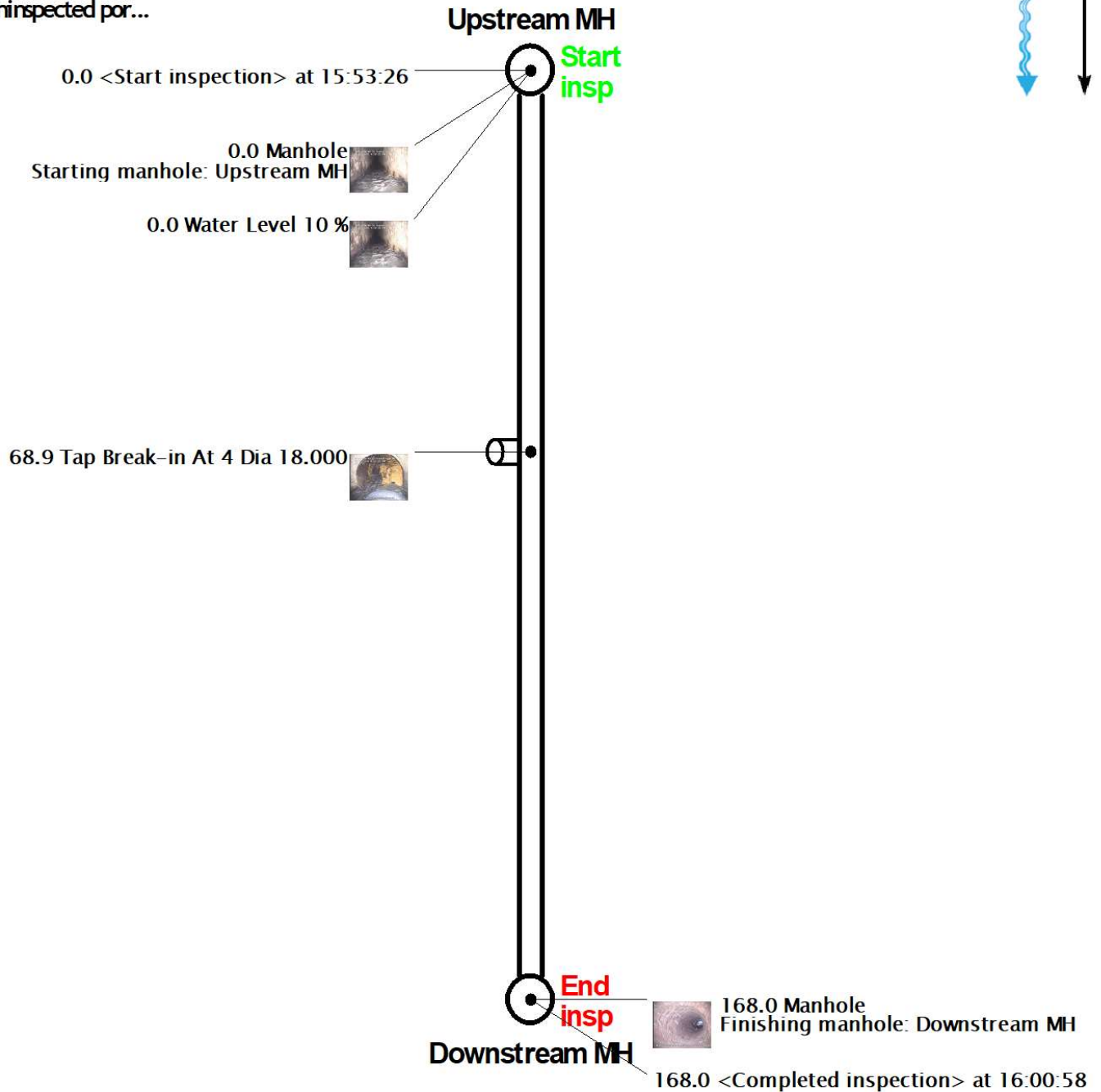
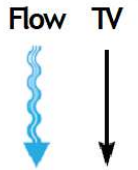
PlanView of PACP 6.0 inspection

Upstream MH to Downstream MH

Downstream inspection

PSR Upstream MH			Street Piedmont Avenue				City Atlanta			
Date	Time	Weather	H (i)	W (i)	Shape	Material	L surv (ft)	Total l (ft)	Status	
09/25/2018	15:53:26	Dry	54	36	Rectangular	Other	168.0		Completed	
Video name			Additional info				Purpose		Sheet	
Upstream MH_1619_09_25_2018.mpg									1	

- video attached
- uninspected por...



Images (PACP 6.0 inspection)

Upstream MH to Downstream MH Downstream inspection

PSR Upstream MH			Street Piedmont Avenue				City Atlanta			
Date	Time	Weather	H (i)	W (i)	Shape	Material	L surv (ft)	Total l (ft)	Status	
09/25/2018	15:53:26	Dry	54	36	Rectangular	Other	168.0		Completed	
Video name				Additional info			Purpose		Sheet	
Upstream MH_1619_09_25_2018.mpg									1	



Dist (ft)	Counter	PACP code
0.0	0	AMH

Manhole

Starting manhole: Upstream MH

Upstream MH_1619001.jpg



Dist (ft)	Counter	PACP code
0.0	4	MWL

Water Level

Upstream MH_1619002.jpg



Dist (ft)	Counter	PACP code
68.9	169	TB

Tap Break-in

Upstream MH_1619003.jpg



Dist (ft)	Counter	PACP code
168.0	452	AMH

Manhole

Finishing manhole: Downstream MH

Upstream MH_1619004.jpg



Keisha Lance Bottoms
MAYOR

CITY OF ATLANTA
DEPARTMENT OF WATERSHED MANAGEMENT
72 Marietta Street, N.W.
ATLANTA, GEORGIA 30303

Kishia L. Powell
COMMISSIONER

MEMORANDUM

**To: Mark Banta, President & CEO
Piedmont Park Conservancy**

From: Chris Lewis, DWM Deputy Commissioner OLIO *CEL*
Department of Watershed Management

Date: October 10, 2018

Re: 1071 Piedmont Ave. Sewer Investigation & Findings

The Department of Watershed Management (DWM) completed an investigation of all public sewer assets that are located within the immediate vicinity of the above location. The purpose of the investigation was to work to identify the root-cause of a sinkhole that formed within flooring of the structure that houses both the Park Conservancy and commercial restaurant, Willy's.

The DWM reviewed all available record drawings and attribute data relating sewer assets that traverse through the location in an effort to pinpoint the sewer that was the closest in proximity to the sinkhole. It was determined that an existing 4' x 5', combined masonry rock sewer was the closest sewer in proximity to the sinkhole and was the primary focus of the investigation. Based on historical records, we confirmed that the sewer was constructed circa 1924.

The DWM enlisted a 3rd party contractor to assist with completing the investigation. Work consisted of the completion of a visual inspection for three (3) sewers that traverse through the footprint of the property and entailed: 1) CCTV and manned-entry inspection of a 4' x 5' combined masonry rock sewer, 2) CCTV of a 48" egg-shaped, brick sewer, and 3) CCTV inspection of a 36-inch circular, concrete sewer. The results of **visual inspections did not indicate any structural deficiencies concerning the sewers** that warranted repairs. The contractor then removed two (2) large concrete slabs that had fallen into the sinkhole and performed vacuum excavation to expose the top of the rock sewer in effort to identify any external structural deficiencies; no structural deficiencies were observed external to the sewer. Similarly, the contractor completed both smoke testing of the 4' x 5' combined masonry rock sewer, as well as dye testing of the sinkhole; results for both tests were confirmed as negative. Reference the attached Exhibits containing the inspection and testing results. To repair the void, **the contractor backfilled the sinkhole utilizing a cellular grout to fill the excavation and stabilize the surrounding soils and subsurface conditions. The results of the investigation did not indicate any of our sewer assets as the cause for the sinkhole formation.**

Please feel free to contact me if there are any further questions/concerns regarding the work that was performed and findings at: 404-546-0567.

Cc: Kishia L. Powell, Commissioner DWM
Mikita Browning, Director DWM
Patrick McShane, Attorney DOL