

Mr. Byron E. Coy Director, Eastern Region Pipeline and Hazardous Materials Safety Administration 820 Bear Tavern Road, Suite 306 Trenton, NJ 08628

November 12, 2010

RE: Notice of Probable Violation and Civil Penalty CPF 1-2010-0004

Dear Mr. Coy,

We received your Notice of Probable Violation and Proposed Civil Penalty (Reference CPF 1-2010-0004) dated October 14, 2010 and received October 18, 2010. We are respectfully contesting the allegations in item 1. The documentary record set out below demonstrates that this allegation is based upon false information, and therefore is invalid and should be abandoned.

Finding

The City of Richmond, VA (City), failed to follow its own operations and maintenance procedures policy by not repairing Grade 1 leaks immediately.

City records viewed by the VA SCC inspector identified four (4) Grade 1 leaks not repaired immediately:

Leak #	Date reported	Date repaired/Re- evaluated	Days late
67843	12/24/2008	1/2/2009	9
566945	1/12/2010	1/13/2010	
238910	9/26/2008	9/26/2009	365
562586	1/7/2009	1/9/2009	2

Background

In our original response to the SCC, we agreed that these 4 leaks were rechecked (after their repair) outside of the procedural time frames. This was the issue identified in Item 2

of CPF 1-2010-0004. Item 2 is not being contested. However, in that response, we did not address the immediate repair issue of these 4 grade 1 leaks that is the foundation of item 1. Those repairs were done properly and within the City of Richmond's operations and maintenance procedural requirements.

Response

City of Richmond took immediate action on the grade 1 leaks.

The attached documentation shows that:

- Leak 067843 had the wrong leak grade checked off on the form. The remarks section and readings confirm that this was a grade 2 leak.
- Leak 566945 had the gas shutoff until the service could be replaced the next day. The leak was stopped.
- Leak 238910 had the wrong repair date listed on the leak report. Continuous action was taken until the leak was repaired.
- Leak 562586 was downgraded to a grade 2 leak.

In the attachments to this letter, we have circled various portions of the leak reports and attached daily reports as documentary evidence to support these conclusions.

Description of our Leak Management System

The City of Richmond's system of leak and work management is primarily a paper system. As we explained in our post hearing brief (related to CPF 1-2010-0001) response:

The leak report (that was the basis of this item) is an initial document and NOT the final document of record for a City of Richmond Leak. The leak report repair record is created in the middle of the leak cause determination process, not at the end of our process. Our process is as follows:

- 1. A leak is identified and graded
- 2. The leak report (that you reviewed) is completed when the leak is identified and repaired. Field personnel or contractors make their initial determination of cause and facility affected. The information at this point has not been reviewed by any other City of Richmond personnel
- 3. The leak record is used as a data entry form for capturing the data in our leak database. In 2007 and 2008 this was an Excel file. We now have a SQL Server based database for our leak records. The leak details and cause are manually keyed into the database.
- 4. This database is reviewed for discrepancies and inconsistencies. These are resolved through a continuing review process that includes the General Supervisor and Operations Manager. The database is corrected as needed.
- 5. It is our leak database that contains the accurate, City supported record of the leak, not the initial paper leak record...

Discrepancies in repair dates and leak grades are also corrected in our database as the result of supervisory review of that database. The paper leak report, which was reviewed by the SCC, is only one piece of the repair record. The Supervisor also consults the daily reports which provide more detail on the repair assessment actions.

As a reference our leak grading criteria are provided as Attachment A to this report. This is excerpted from our O&M Procedure II.6.II entitled "Leak Response, Tracking and Repair"

Hearing Request

It is the City's contention that the information contained herein is more than sufficient to prove that the allegations of Item 1 are based upon incorrect data, and therefore the violation should be abandoned. Should PHMSA disagree with this contention, the City reserves our right to a hearing in accordance with 190.209. The issues to be raised in the hearing include discussion of the allegations in the notice and the proposed civil penalty amount based upon the incorrect facts in Item 1 of the Notice of Probable Violation and Civil Penalty dated October 14, 2010 reference number CPF 1-2010-0004. City of Richmond DPU will be represented by counsel at the hearing.

Attachments

Attachment A: City of Richmond - DPU Leak grading Criteria

Attachment B: Leak 067843 Details Attachment C: Leak 566945 Details Attachment D: Leak 238910 Details Attachment E: Leak 562586 Details

mile OR Bra

If you have any further questions, please contact me.

Sincerely,

Michael R. Bellman

Deputy Director – Gas & Light City of Richmond – DPU 400 Jefferson Davis Highway Richmond, VA 23224 (804) 646-8301

> cc. Gregory O'Halloran, Esq. Robert Steidel Carl James

ATTACHMENT A CITY OF RICHMOND DPU

Leak Criteria	Grade 1	Grade 2	Grade 3
Any leak regarded as an immediate hazard	Any reading		
Escaping Gas that has ignited	Any reading		
Gas leak that can be seen, heard, or felt in a location that may endanger public or property	Any reading		
Gas has migrated into building or tunnel	Any reading		
Gas against the outside wall of a building	Any reading		
Gas in a manhole, vault or catch basin	≥ 80% LEL	< 80% LEL	
Gas in a small substructure (other than gas related) from which gas could migrate creating a hazard	≥ 80% LEL	< 80% LEL	
Gas in a confined space	≥ 80% LEL	≥ 20% LEL but < 80% LEL	< 20% LEL
Leak which could migrate to the outside wall of a building under frozen conditions		Any reading	
Gas leak of sufficient magnitude to justify scheduled repair		Any reading	
Gas under a sidewalk in wall to wall paved area		≥ 40% LEL	
Gas under a street in wall to wall paved area		≥ 100% LEL	
Gas in a gas associated substructure (valve box, for example)		≥ 80% LEL	< 80% LEL
Gas under a street in areas without wall to wall paving			Any reading

ATTACHMENT B Leak # 067843

Allegation: This was a grade 1 leak reported on 12/24/08 and not repaired until 1/2/09.

Actual Fact: This was <u>not</u> a grade 1 leak

This was improperly identified as a grade one leak on the form (the wrong box was checked off). The remarks section of the leak listed the proper leak grade as a Grade II leak. This was supported by the actual gas readings recorded on the form.

The Remarks section of the leak report dated 12/24/08 (Circled – see below) reads:

"Found 40% gas in bar hole near curbcock, 0% gas at foundation and sewer. Made Grade II ticket to have H&M (our contractor Henkels & McCoy) to drill out main and services".

This Grade II leak was repaired on 1/2/09.

Attachment B: Leak 067843, Continued

Although marked as a Grade 1, the remarks text and readings indicate that this was a Grade 2 leak.

Out-	-2-0 9			563081
☐ LEAKAGE INS	PECTION - LOCATION ORDER 216 220 Park Word Add Son St. 1 Richmond \$119 6	Ave s shields st.	TIME REPO TIME DISPAT TIME AR REPORT DPU M/U REPAIR TIO DATE RE-CHE	TCHED:
DETECTED BY GATame Pack Visual/Vegetation Constructible Meter GOdor Complaint Other Dig-in Other	PROBABLE SOURCE Main Bervice Service Tap Valve Meter Set Other	□ Rock □ Gas W □ Cinders □ L.E.L. □ Ctay □ P.P.M. □ Loam □ Negati	C.G.I. TEST 10/0 PRESSURE DLow 13 f.P. DHIgh	SURFACE PIPE & SIZE 2 El-tawn Clastic Clastic
tound 40% go	e in bar fole	Ficher- to	Land Ittu I	deillout
maid + sex in-	\$			
AREA LOCATION:	MERCIAL D	INDUSTRIAL	-RESTDENTIAL	LINGRAL
		OCATION REPORTING D		
CLASSIFICATION G-Grade 1 D Above Groun Grade 3 D Bellow Groun	d □ Valve	LOCATED AT Meter Assembly Odorizor Regulator Station Compressor Station N/A	FACILITY TYPE & SIZE D-Main L-Z D-Service Date installed	PS/CTS PIPE TYPE PS/CTS Ps/CTS Decitie fron Cast fron Galvanized Copper ChDPE Other
* TYPE OF LEAKING FITTING (If LOCAY Mechanical Service Tee Heat Fusion Service Tee Electrofusion Service Tee Welded Service Tee Saddle Fitting Service Tee Cap Anodeless Meter Riser	ED ON Fitting) Threadolets/Weldolets/Sc Plugs/Caps Elbow Nipple Tee Diaphragm Other Meter Riser	☐ Coupling F ☐ Transition Fi ☐ Split Sleeve ☐ Leak Clamp	lastic 🗆	Meter Swivel Union Insulator
	Lea	ak Location Skete	ch	₹V •
METER SET Meter No. III INSPICTED LOW INISIDE OUTSIDE O	Si Addison St.	22.20 X 0 /		

ATTACHMENT C Leak # 566945

Allegation: This was a grade 1 leak reported on 1/12/10 and not repaired until 1/13/10. **Actual Fact:** The gas was shut off and a temporary repair was made immediately to stop the leak on the riser. The service was replaced the next day.

The actions taken on this Grade 1 leak on 1/12/10 are documented in the leak report and in the Service Order history.

From the remarks section of the leak report completed by Unit 242:

"Meet 497, Found Riser had corrosion holes. Need crew to make repairs. <u>Made safe with a clamp</u>".

From the Service Order History form:

"242 Found Grade 1 riser leaking, turned off cc (curb cock), needs new LP svc".

The entire service was replaced on the next day, 1/13/10.

Attachment C: Leak 566945, ContinuedThis Grade 1 Leak was made safe with a clamp

AD CROSS ST CITY/C	DRESS: 47 REETS: 57 OUNTY: 67 PAGE: 80 GATOR:	CTION - LOCATION CATION ORDER 10 9 C.U+Sho 12 Ples Will 1 11 19 8 11 19 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Dead End	REFERENCI DATE REI TIME REI TIME DISP/ TIME A REPOR DI M/U REPAIR T DATE RE-CI	ABASE # JOO A E LEAK#: PORTED: 1/2 / A ATCHED: 1// 2 7 RRIVED: 1// 2 7 RRIVED BY: PU S/O #: ICKET #: 400126
☐ Flame Pack ☐ Visual/Vegetation ☐ Combustible Meter ☐ Odor Complaint ☐ Other Dig-in	□ In Búilding □ In Búilding □ Near Bidg. □ In Man Hole □ In Stil □ In Air	PROBABLE SOURCE Math Service Service Tap Valve Meter Set	□ Rock Ø Ga □ Cinders □ L.I Ø Clay □ P.I	E.L. %	SURPACE PIPE & SIZ D'Lawn Steel Soll Plastic Paved Cast Iro Other Ductile Bother
AREA LOCATION: CLASSIFICATION B Grade 2 Grade 2 Grade 3	LEAK LOCATED Above Ground Below Ground	established the	LOCATION REPORTIN LOCATED AT Meter Assembly Odorizer Regulator Station Compressor Station	FACILITY TYPE & SIZE Math Service Date Installed	RURAL PIPE TYPE Bare Ste PS/CTS Coated to PS/CTS Coated to Coa
*TYPE OF LEAKING FI Mechanical Service 1 Heat Fusion Service	Tee 🔲	Gauge Line Gauge Line Riser Dregulator Drip Tap Drip Tap Drip Threadolets/Weldolets/S Plugs/Gaps	☐ Couplin	g – Metal g – Plastic	Galvania Copper HDPE Olther
☐ Electrofusion Service ☐ Welded Service Tee ☐ Saddle Fitting ☐ Service Tee Cap ☐ Anodeless Meter Ris		Elbow Nipple Tee Diaphragm Other Meter Riser	☐ Transiti ☐ Split Spl ☐ Leak Cla ☐ Bell Joir ☐ Other (E	on Fitting eve amp nt Clamp xplain)	□ Insulator
Meter Set Moter No. IF INSPECTED TO THE PROPERTY OF THE PROP	Trust ton		k Location Ske		
)	4"(10	2		

Attachment C: Leak 566945, Continued

And Gas was shut off at the curb valve. This information was entered in our customer service database

CLOSE	20-JAN	-2010 AT 13:47:33	b	y OPSS	POCIA	LIDM	so	4433868
Primary		CHKLK STREET/SE				Found Or	grows	Left On
Secondary	_	FOUND GRADE 1 LE	EAK .			Frozer	pirace	Location O
Secondary						Conn Size	275A	
						Compl by	AGNOR, DAVID	
		in acres and a second				# Dwells	1	
			-			Spec Ro	The state of the s	
		Number	Mfg	Config	RT	Reg_1	Reg_2	Reg_3
Prev Rds	15334	117	Eg	D4	-	3	-	
EW Meter	110004	***************************************		104	-	-		-
Corrector	-			1	1			
AMR								
ompleted	12-JAN	I-2010 11:26		Ant P	aid [Charge N	
	242 FC	OUND GGRADE 1 - RIS	ER LEAK	ING, TUR	NED (OFF AT CC, NEED		
Notes								1
								13

ATTACHMENT D Leak # 238910

Allegation: This was a grade 1 leak reported on 9/26/08 and not repaired until 9/26/09. **Actual Fact:** This grade 1 leak had the wrong repair date listed on the leak report form. There was continuous action on this leak until it was repaired on 9/27/08.

The leak was identified and properly graded as a Grade 1 leak by our leak surveyor.

Our Inspector #245 arrived (12:00 on 9/26/08) and made Miss Utility Notifications.

H&M crew #11 arrived at 13:30 and worked until 17:30.

They were relieved by H&M crew #8 who arrived at 16:00 and worked until 08:00 on 9/27/08.

"Relieved crew #11 on Class I gas leak"

The leak was repaired in the early morning hours of 9/27/08. The report states: "Found 6" Mechanical joint leaking, tighten joint up, soap check, no leaks..."

Our night Inspector # 240 checked on Crew #8 at 16:45 on 9/26/08. He was at the site from midnight until 7:27 am on 9/27/08 and noted:

"... dug up another joint and tighten – stop leak – and gas was clear from side walk"

								10	1/2	
			CITY	OF RIC	нмомп			56°. EAK#: €	228 A	P
□LE	AKAGE INSP	ECTION - LOC			IIIIOIII		. 1	EAK#: C	J3891D	3
P 2	□ REL	OCATION OR	DER			1	DATE REPO	ORTED: 9	-26.08	
	-					- 11	TIME REPO	ORTED:	easterer/cle	
AD	TRESS: C'C	1 MMINGS	- DK	AL	MAHAI	ווים מי	TIME AR	ICHED:		
	REFTS:	1 CH, ME NAT					REPORT			
MAI	P PAGE:	B-NE	286.4	15-12			DPL	J S/O #:		
LEAK INVESTI	GATOR:	Pro Dun	1		3377 107 5	M/U	REPAIR TIC	KET#: Z	182700	1059
		• / •			01001	_ DA	TE RE-CHE	CKED: _		
			DPULEA	K LOCATIO	N SITE DAT	Α				-
DETECTED BY	COLLECTING	PROBABLE SOL	JRCE	SOIL II Rock	VENTED C	G.I. TEST	PRESSURE D Low	SURFACE	PIPE & SIZE	
Flame Pack □'Visual/Vegetation	Near Bldg.	☐ Service	- 1	☐ Cinders	OLEL.%	, 100	B/P.	□ Soll	☐ Plastic	_
☐ Combustible Meter ☐ Odor Complaint	In Man Hote	☐ Service Tap ☐ Valve		El Clay	□ P.P.M. □ Negative	-	L'High	D Other	☐ Cast Iron ☐ Ductile Iron	60
☐ Other Dig-In	Li in Air	☐ Moter Set		☐ Sand	Linegative			LI Other	D Other	_
Other	□ Other	[] Other		☐ Other	1			J		
			REMARK	S - VEGETAT	ION DAMAGE	teraria i				
										-
AREA LOCATION:	a cow	MERCIAL	KIND	USTRIAL		C RESIDE	NTIAL	☐ RURA	AL	
41										
CLASSIFICATION	LEAK LOCATED	LOCATED ON		OCATED AT			YPE & SIZE		PIPE TYPE	
Grade 1 Grade 2	C) Above Ground			Meter Assen Odorizer	nbly	□ Main □ Service	A11-111-111-11	IPS/CTS	☐ Bare Steel ☐ Coated Steel	
Grade 3	Below Ground	☐ Stopcock	0	Regulator St	ation	Date Inst	alled	IPS/CTS	☐ Ductile Iron	
3,3L 1,1,		□ Fitting* □ Joint**	15	Compressor N/A	Station				☐ Cast Iron ☐ Galvanized	
		☐ Gauge Line	١,	1100	1				□ Copper	
		☐ Riser ☐ Regulator			11.				☐ HDPE ☐ Other	
: tydys (*		☐ Meter ☐ Drip							An seign ag Aller seliger	
		ПТар					5.10.0		□ Other	to the
TYPE OF LEAKING F	TTING (If LOCATE	D ON Fitting)						Mater Curbust	+ 1300	
☐ Mechanical Service ' ☐ Heat Fusion Service	Tee	☐ Threadolets/Welde ☐ Plugs/Caps	blets/Sock	olets D	Coupling – Me Coupling – Pla Transition Fitt	tat istic		Meter Swivel Union		
☐ Electrofusion Service ☐ Welded Service Tee		□ Elbow □ Nipple			Fransition Fitt Split Sleeve	ing		Insulator		
3 Saddle Fitting		□ Tee		131	Leak Clamp Bell Joint Clar				. 1 161	ter.
⊒ Service Tee Cap ⊒ Anodeless Meter Ris		 □ Diaphragm □ Other Meter Riser 	C		Other (Explain				415	takar t
			Look	Locatio	n Chata	h .	47			1686
			Leak	Locatio	n sketc	. 4	Slo			-35(
						7	20 76		4	-
		- 1		1		2	2010	1	1 1	
METER	SET	100	1	2	3	,3	.) 6 /		1	
Meter No.	CVD	13"	1	1	Ì	4	80 (0			
		' 1	~ 1	1/		,		(0)		
	TUEL	\		1						
60	11 1	\								
I'M Ar	$\neg \exists $	14,		-	C	ا د	<u> </u>			
14/6	7)	\	*							
I M J		\	\	~	8 9		2			
1 4 70		\	1		UMMIN	165	DR			
	1 1		30							
1 11 1	- 1 1	0	LUN PRUM	X						
	/ [1 111	4	1						
N P-	-		3	14				1		
INSIDE () O	DIZIOE []		2	, ,						
		را الا		I)				Ł	1	
-	250	J 371	00							•
	-	1001	UX							

Inspector #245 was first to arrive and worked with H&M crew #11 and then with H&M crew #8

TIME DESCRIPTION OF WORK PAVING REQUIRED Arrival H C730 H Office Setting Location for A+rn Crews CODE 057-964	Contractor : Supervisor :	-	No. of Men Date: 1/26/	Locations H = Henrico C = Chesterfield
THE DESCRIPTION OF WORK REQUIRED CODE Arrival First phr Departure C Map Page # R Arrival Beparture C Map Page # R Arrival Arrival Arrival Arrival Beparture C Map Page # R Arrival Arrival Arrival Arrival Beparture C Map Page # R Arrival Arrival Arrival Arrival Beparture C Map Page # R Arrival Arrival Arrival Arrival Beparture C Map Page # R Arrival Arrival Arrival Beparture C Map Page # R Arrival Arrival Beparture C Map Page # R Arrival Arrival Beparture C Map Page # R Arrival Arrival Beparture C Departure C Depart			on the state of th	
Arrival Page # R Arrival Page # R Arrival Arrival Page # R Arrival Arrival Page # R Arrival Arrival Page # R Arrival Arrival Arrival Page # R Arrival Begarture C Departure C Departure C Departure C Arrival Arriva	TIME			
Map Page # R Arrival H Grown		Н		
Map Page # R Arrival Operature Map Page # R Arrival Arrival Departure C Map Page # R Arrival Arrival Departure C Map Page # R Arrival Arrival Departure C Map Page # R Arrival Arrival Arrival Departure C Map Page # R Arrival Arrival Arrival Departure C Map Page # R Arrival Arrival Departure C Map Page # R Arrival Departure C Map Page # R Arrival Arrival Arrival Departure C Map Page # R Arrival Arrival Departure C Map Page # R Arrival H CODE Ticket #		1	Office Gelling Location for A+m Crews	057-964
Arrival Peparture Map Page # Arrival Peparture C Map Page	Departure	C	10	1002-8200
Arrival Peparture C Map Page # R Arrival Arrival Peparture C Map Page # R Arrival Arrival Arrival Peparture C Map Page # R Arrival	Map Page #	R	COUNTY 1107 N SCOTE St. Pren sm. B. A	Ticket #
Map Page # R Arrival H G. 15 Am Departure C Map Page # R Arrival H Arrival H Arrival H Departure C Map Page # R Arrival H Arrival H Arrival H Departure C Map Page # R Arrival H Arrival H Arrival H Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H CODE Departure C Map Page # R Arrival H Arrival H CODE Departure C Map Page # R Arrival H CODE Departure C Map Page # R Arrival H Arrival H Arrival H CODE Departure C Map Page # R Arrival H Arrival H Arrival H Arrival H CODE Departure C Map Page # R Arrival H Arrival H Departure C Map Page # R Arrival H Arrival H Departure C Map Page # R Arrival H Arrival H Departure C Map Page # R Arrival H Arrival H Arrival H CODE		Н		CODE
Map Page # R Arrival H G. 15 Am Departure C Map Page # R Arrival H Arrival H Arrival H Departure C Map Page # R Arrival H Arrival H Arrival H Departure C Map Page # R Arrival H Arrival H Arrival H Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H CODE Departure C Map Page # R Arrival H Arrival H CODE Departure C Map Page # R Arrival H CODE Departure C Map Page # R Arrival H Arrival H Arrival H CODE Departure C Map Page # R Arrival H Arrival H Arrival H Arrival H CODE Departure C Map Page # R Arrival H Arrival H Departure C Map Page # R Arrival H Arrival H Departure C Map Page # R Arrival H Arrival H Departure C Map Page # R Arrival H Arrival H Arrival H CODE			Oseg up 4 Bell joent leaking reserved it	
Map Page # R Joseph Grand Flexible Fle	Departure	1		,
Arrival Arrival Arrival Departure C Map Page # R Arrival Departure C Map Page # R Arrival Arrival Arrival Arrival Departure C Map Page # R Arrival Arrival Arrival H Arrival Departure C Map Page # R Arrival Arrival H Arrival Departure C Departure C Map Page # R Arrival Arrival Arrival Departure C Departure Departure C Departure C Departure C Departure D Departure C Departure D Departure C Departure D Departure D D D D D D D D D D D D D	Map Page #	R		
Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H Arrival H Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H Arrival H Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H CODE Departure C Map Page # R Arrival H CODE Departure C Map Page # R Arrival H CODE Departure C Map Page # R Arrival H CODE	Arrival	Н	, , , , , , , , , , , , , , , , , , , ,	CODE
Map Page # R Arrival H Departure C He go sewry i moved to 2508 3 May Classe Ticket # Arrival H Departure C He go sewry i moved to 2508 3 May Classe Ticket # Arrival H Departure C He go sewry i moved to 2508 3 May Classe Ticket # Arrival H Departure C He go sewry i moved to 2508 3 May Classe Ticket # Arrival H Departure C He go sewry i moved to 2508 3 May Class Ticket # Arrival H Durham H Cummings Bs. Class T. Scross CODE Arrival H Departure C Turned leak over to Might Crew 8th Ticket # Arrival H CODE Departure C Map Page # R Arrival H CODE Departure C Map Page # R Arrival H CODE			Crew 1# 4221 Kingcrest Parkway, Clew Marked	
Arrival H Departure C C C C C C C C C	Departure	C		
Departure Crew 7# 402 Whitmore Ct. Robocator He gesseure i moved to 2508 3 Mary Classic Ticket # Arrival H Departure Crew 11	Map Page #	R		Ticket #
Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H Arrival H Departure C Arrival H Arrival H Departure C Departure C Arrival H CODE		Н	1-	CODE
Map Page # R Arrival H Departure C Map Page # R Arrival H Arrival H Arrival H Arrival H Arrival H Departure C Map Page # R Arrival H CODE			Crew 7# 402 Whitmore Ct. Kolocaling	
Map Page # R Arrival H Departure C Map Page # R Arrival H Crew H + Durkem H + Cumming Dr. Clarat - Screen CODE Ticket # Ticket # Ticket # Ticket # Arrival H Arrival H Arrival H Departure C Map Page # R Arrival H Code Departure C Map Page # R Ticket # Ticket # Ticket #	Departure	С	the conserve many files across 3 shows por -	
Arrival H Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H Arrival H Arrival H Arrival H Arrival H Departure C Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H Departure C	Map Page #	R	4 4 40-	Ticket #
Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H CODE Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H CODE	Arrival	ш	210 Cut 1/8 1 C gas solvery Time arrived 11.30 For	
Departure C	Ailivai	"	made regains on the service on testale with soll	CODE
Map Page # R Crew 11 # Durlam St + Cumming Dr. Claret - Screen Arrival H 12:00 m Departure C I sas at Building wall. Drill out the ges main Ticket # Ticket # Ticket # CODE Departure C Map Page # R Arrival H Arrival H Departure C Departure C Departure C Map Page # R Arrival H Departure C	Departure	С		
Arrival H Departure C Map Page # R Arrival H Arrival H Departure C Departure C Departure C Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C	an Page #	R	Ja 15 mus OK	Tiplest #
Arrival H Departure C Map Page # R Arrival H CODE CODE CODE CODE Ticket # CODE CODE CODE Ticket # CODE CODE CODE CODE CODE CODE CODE	map rage #		Crew 11 4 Durlam St + Cummings Dr. Class I- 5 cra	11CKet #
Map Page # R Arrival H Departure C Map Page # R Ticket # CODE Ticket # CODE		Н		CODE
Map Page # R Arrival H Departure C Map Page # R Ticket # CODE Ticket # CODE		C	gas a Bruldling wall. Will out the ges main	
Map Page # R Arrival H Departure C Map Page # R Ticket # CODE Ticket # CODE	1900	۲	turned leak over to Wight Crew 8th	
Departure C Ticket # Arrival H CODE Departure C	Map Page #	R	The second second	Ticket #
Map Page # R Ticket # Arrival H CODE Departure C	Arrival	Н		CODE
Arrival H CODE Departure C	Departure	С		
Arrival H CODE Departure C	Man Daga #			
Departure C	wap Page #	н		Ticket #
	Arrival	Н		CODE
	Departure	c		

Attachment D: Leak 238910, Continued H&M Crew #11 report

	03-05-5	300-11	APPROVED BY_		1	O5196410028700	3
CON	MPANY 22 - 7)-cl	CITY Did	1	1/ -	4301012	
LOC	CATION / ADDRESS:		0.00		sil.	4301013 A	
	ING CODE:	Cuminings 120	SAS MAD DAGE	draw Kits		SERVICENO	
н	ASPHALT	CONGRESS	THOE	10	N.E	SERVICENO.	.38
C	TOTALLI	CONCRETE	DIRT/GRASS/S	SEED	GRAD	E OF LEAK:	
R						COMPLETE	
- AAA	IN REPAIRED	SIZE	☐ SERVICE RE	DAIDED		INCOMPLETE	E
SLI HU JOI CO VAL	EEVE INSTALLED BS SEALED NT TIGHTENED UPLING TIGHTENED VE	© CAST IRON ☐ STEEL ☐ PLASTIC ☐ GALVANIZED	SERVICE RE MAIN TO CC CC TO METE 1/2" PE 1" PE	PLACED		TING PIPE ALVANIZED FEEL ASTIC AST IRON DPPER	
YES	PINPOINTED B D NO DESCR	# OF HOLE	ES DRILLED	TO PAGE		ONNEL	T
	ING BOX USED	IPTION		SUPT.			H
YES		TESTEDPSI		ASST. S	UPT.	W 18 1 19 1	1
AILBO	DARD MEETING	Foi	MIN.	FOREM	AN TO	Lorden	13
YES	□ NO TOPIC			ASST. F	ORE.	0	1
		90 94		LABORE	R#1 700	ste Folsoes.	14
Sing.	inca (m. 71.	5:30		LABORE	R#2	How Horacles	dag
Zen	1	Class 1 gas le	The same of the sa	FLOATE	3		
Seco	- B.G. Con	Dearlow of	ere inet	D/T OPE	R		
6	Wait Fam 50	1 out don	levie Has	D/T OPE	R		
it	to Come and	2 sn 1 mas	the This	B/H OPE	R		
Ken	Sale Dell 1	Lender Jack	as thema	B/H OPE	3		
us	Main ale 13	me doles oner	the 6°	TRAINER			
2 3	led all se 7	to the comment	our and				
na	I Diel in	a roles takela	As enclisted			EQUIPMENT	HRS
2	& anea 76	El D Colica	con gena		TOOLS -	15.6.62	4
cia	ach I Chel	11. 7.11	der de	BACKHOE			
ill	istor and I	87:11 2:1	a dikk	DUMPTRU			
ele	estion of and	in 41.	Jagwood To	COMPRES		427 -	ej.
5.3	ment to	en au sem	The second secon	CRASH TR		1 19	
			and the second second	CRANE TR			
SHIFT					DARD/Hours		
	1.	7:30		HOE RAM/			
				TRENCHER			
					E SHOT/Hou		
					SHOT/Hour	S	
			8	TEEL PLAT	ES/Hours		

H&M Crew #8 Report – They worked form 16:00 on 9/26/08 until 08:00 9/27/08. leak was repaired in early morning hours of 9/27/08

HENNELS - MCCC	DAIL	Y WORK REPOR	T.	DATE 39-2	6-08
HENKELSEMCCO	M, Inc.			CODE NUMBERS	HRS
NO. 03-05-04	30048	APPROVED BY	-	05196410028700 4301012	16
COMPANY D. P.)	CITY Chichm	and, va	4301013 A	
LOCATION / ADDRESS:	Cummin	so Dr. At Du	n Hom St	SERVICENO 239	191D
PAVING CODE: 05196	(1007 mm)	GAS MAP PAGE NO		SERVICENO. 238	110
H ASPHALT	CONCRETE	DIRT/GRASS/SEI	ED GRA	DE OF LEAK: T	
C 5645 5646				IS COMPLETE	0
(R) 5645 4645				IS INCOMPLETE	
MAIN REPAIRED SLEEVE INSTALLED HUBS SEALED JOINT TIGHTENED	CAST IRON STEEL PLASTIC GALVANIZED	ZE SERVICE REPA SERVICE REPL MAIN TO CC CC TO METER 1/2" PE	ACED [KISTING PIPE GALVANIZED STEEL PLASTIC CAST IRON	
 □ COUPLING TIGHTENED □ VALVE 			OTHER RELOCATED	COPPER	
LEAK-PINPOINTED	# OF I	HOLES DRILLED	PI	RSONNEL	HRS
PYES NO DESC	CRIPTION	29	SUPT.		
SHORING BOX USED		DOI 0 14111	ASST. SUPT.	- furchy	16
	R TESTEDO	_PSIMIN.	FOREMAN	· Coshy	16
TAILBOARD MEETING YES NO TOPI	C	0	ASST. FORE.	B. Silva	8
			LABORER #1	Joseph	16
00 arrived	on Job 2	ate of	LABORER #2	m. Foster	8
aut Cones +	Signa Relie	wed Crewill	FLOATER	A 1 1	11
on Class I	gos leak	, 245 Was	DO OPER	Crowford	16
an Site w	hen we as	rived	D/T OPER		_
2 creas wa	s marked	. One oues	B/H OPER	N 00-	11
4" I.p. main	+ one was	o aues 6"	B/H OPER (2)	Allen	16
I.p. main.	We Dung H	ale aves	TRAINER		_
6" I.p. main.	found Ripe	. Cleoned			
Pipe off-No	leohs. in 1	Jole Brown		ABLE EQUIPMENT	HR
Bon boch He	ta Joint	Cut another		ols 33732	16
Hole 5045 a	posing bi	inous of	BACKHOE		16
Cleaned mo	un aff. To	und 6 (mech)	DUMPTRUCK		16
gont with O	my Dist. Clear	nech Joint off	COMPRESSOR		11
Tighten both	Soof Checked. N	roleaks. Doene		(Hours 33511	16
Both Holes. 6	his another	5 by S Hole	CRANE TRUCI		-
over 4" L.P. pe	un tound R	ige. Cleaned	ARROW BOAF		
gipe off. for	and 4" mecha	nical yount	HOE RAM/Hou		-
Claned Joint	off. I ighters	Docts. brilled	TRENCHER/H	Citation of the Citation	-
more Holes are	16 man gu	Lea up Sas	SM. MISSILE S		1
dry - 1 1" mail	role 5 696. 40	E C"T p main	LG. MISSILE S		
pound 6 mecho	meal front le	boho, Rushote	STEEL PLATE	O Cacl.	
Joint 19. Soup	Checked No		SIGNED	1 Carry	
Form / OUT SIDE SIGNED TO	ries Hardad	16 the Shep	SIGNED	8"	
arrive d	most to	Shop 0800	pr 10 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60		

Our night crew inspector #240 checked on this work at 16:45 pm of 9/26/08 and noted gas was still in the sidewalk

Contractor:	No. of Men Date : 9-35-0	780
	OPegala Unit No. 200	Locations H = Henrico C = Chesterfiel R = Richmond
TIME	DESCRIPTION OF WORK PAVING REQUIRED	
Arrival	Shop	CODE
Departure	С	
Map Page #	R	Ticket #
Arrival 4.45	H Dur hain = C	CODE
Departure	c	
Map Page#	R 295 and night	Ticket #
Arrival	He was also as a war market	
Departure	by dril crew so leak	CODE
Map Page #	had com redull found	
	506 in the interestion du	Ticket #
	up sent joint didn't	CODE
	cas out of side will	
lap Page #	had every me chall of	Ticket #
Arrival	the soul the	CODE
Departure	of 1 1018 avora makel	CYME BUILDING
ap Page #	tound a gas in street	Ticket #
Arrival	chang up seelled joint	
Departure	did t get gas out of	CODE
lap Page #	Side walk - Prilled some	
	more found 78 - 65.40	Ticket #
	Tous on dull balos or	CODE
Departure (Istill in side 1. 111	- 1
lap Page #		Ticket #
Arrival	Melgon 9+ a Can doll A.	CODE
Departure	and Sold on Co-	

Our Inspector #240 noted leak was stopped and gas was clear from the sidewalk in the early morning hours of 9/27/08.

T 12		DAILY WORK REPORT		
Contracto	or:		: 9-27-200	
Supervise	-	Derect Unit No. 240		Locations H = Henrico C = Chesterfield R = Richmond
TIME	_	DESCRIPTION OF WORK	PAVING REQUIRED	
Arrival Departur	0	C Pur hour o Cummins worker		CODE
Map Page	#	R with night on	-	Ticket #
Arrival	+	found inthe leather so		CODE
Departure 2.27	e (1 / / Contract ve	0	
Map Page		due up unother joint	TO CS	Ticket #
Arrival		and finites ofen lack		CODE
Map Page	7	and ges was clear		
Artival	H	trom side walk.		Ticket #
Departure	3			CODE
Map Page #				
			1	Ticket#
Arrival	Н			CODE
Departure	C			
Map Page #				Ticket#
Arrival	Н			CODE
Departure	C			
Map Page #	R		1	Ticket #
Arrival	Н			CODE
Departure	С		1	
Map Page #	R			Ticket#
Arrival Departure	Н			CODE
Map Page #	R	1		
map raye #	K		-	Ticket#

ATTACHMENT E Leak # 562586

Allegation: This was a grade 1 leak reported on 1/7/09 and not repaired until 1/9/09. **Actual Fact:** This leak was downgraded to a Grade II leak on 1/7/09 and repaired on 1/9/09.

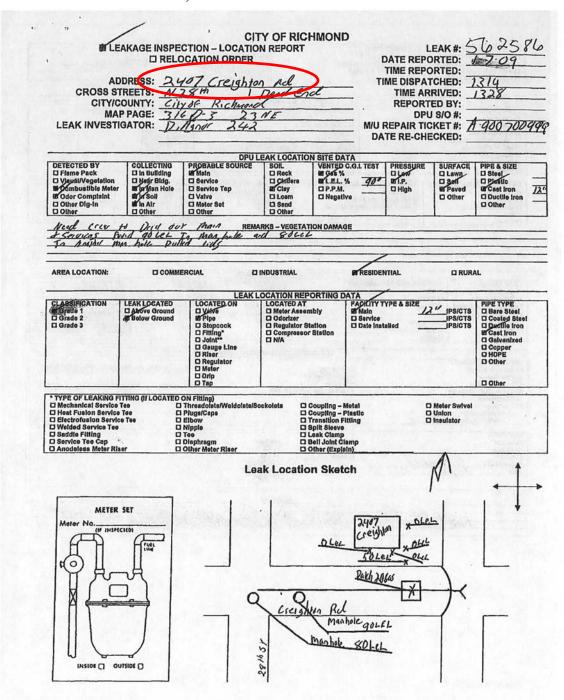
Our Inspector (unit 242) arrived at this Grade I leak at 13:28 pm on 1/7/09. The leak was classified as a Grade I since ≥80% LEL was measured in a manhole (90% LEL)

A Henkels and McCoy (H&M) crew #4 arrived to begin the bar holing (drilling) process.

The H&M crew #4 was still on the job at 21:30 when our inspector (unit 245) recorded the following in his daily work report:

"90% LEL in Sewer man hole. Had crew drill out the 12" CI ...main at bottom of the hill. Readings drop to 7% LEL. Downgraded to Class II."

The H&M crews returned on 1/8/09 and 1/9/09 to continue work on this Grade II leak. The main was 9-1/2 feet deep. A mechanical joint on a 12" CI main was tightened to repair the leak on 1/9/09.



DPU Inspector 242 visits H&M Crew #4 working on Grade 1 leak

TIME DESCRIPTION OF WORK PAVING REQUIRED Arrival H Shop Departure C Map Page # R Arrival H Low To meet 466 on 645 Leak on Ristor Arrival H Low Cyc Rox and Cut off chass I Ristor and Roker or resident following Reserve and Roker or Roker following Reserve and Roker to Roker following Reserve and Roker to Roker fo	Contractor:		No. of Men 37 Date:	7-7-08	Locations
THE DESCRIPTION OF WORK REQUIRED CODE Arrival H Shop Departure C Bap Page # R Arrival H Arrival H Arrival H CO 38 Departure C Map Page # R Arrival H Departure C Departure C Departure C Map Page # R Arrival H Departure C Departur	Supervisor :	de	Lauderson Unit No. 242		H = Henrico C = Chesterfield R = Richmond
Departure C Departure C Departure C Map Page # R Arrival Hold To meet 446 maghs leak on Risco Map Page # R Arrival Hold To meet 446 maghs leak on Risco Map Page # R Arrival Hold For with Correction Holds and Hade To Departure C Hab For leak house and cut off class I Map Page # Arrival B Departure C Map Page # Arrival Hold For leak house and need metr Protoc tion CODE Map Page # Arrival Hold To meet 446 maghs leak on Risco Winnered Ticket # Arrival Hold To meet 476 mag And Bartes + sewer Arrival Hold To meet 476 mag Bartes + sewer Arrival Hold To meet 476 mag Bartes + sewer Arrival Hold To meet 476 mag Bartes + sewer Ticket #	TIME		DESCRIPTION OF WORK		
Departure C Map Page # Arrival Arriva		Н			CODE
Map Page # R Arrival Departure C Hade To meet 466 on 645 Leak on Rissy Map Page # R Arrival Has Farley of need To Digup Risert and Raise Departure C Habe To meet 466 on 645 Leak on Rissy Map Page # R Arrival Departure C Departure C Map Page # R Arrival Departure C Map Page # R Arrival H Di 32 R Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H Departure C Depar		С	Shop		
Arrival Arrival Departure C Hade To meet 446 mans lead on Riser Hade To meet 446 mans lead on Riser Hand Riser with Correction Holds and Hade TO Departure C Low CK Rox and Cut off crass I Hade For lead to Digup Risert and Raise Frame Pack House and neter Protection Map Page # Arrival Departure C Map Page # Arrival Dia B Departure C Map Page # Arrival Arrival Hade To meet sim and Bartest sewer Departure C Map Page # Arrival Hade To meet sim and Bartest sewer Departure C Map Page # Arrival Hade To meet sim and Bartest sewer Dischet # Arrival Hade To meet sim and Bartest sewer Dischet # CODE Ticket # CODE Ticket # Tick		a			
Departure Arrival Departure C Map Page # Arrival Arrival Arrival Arrival Departure C Map Page # Arrival Arrival Arrival Arrival Departure C Map Page # Arrival Arrival Departure C Map Page # Arrival Hade To meet spm and Bartest sewer Map Page # Arrival Departure C Map Page # Arrival Hade To meet spm and Bartest sewer Map Page # Arrival Arrival Departure C Map Page # Arrival Hade To meet spm and Bartest sewer Map Page # Arrival Departure C Map Page # Arrival Hade To meet spm and Bartest sewer Arrival Arrival Hade To meet spm and Bartest sewer C CODE Ticket #	Map Page #	R			Ticket #
Departure Map Page # Arrival Hade To meet 466 on GHS Leak on Ristor Ticket # Towned Ristor with Correction Holds and Hade To Line St. Rock and Cut off elms St. Hade For lead to Digup Ristory and Radise Ticket # Ticket		(H)		D9:58	CODE
Map Page # R Arrival H Departure C Hade To meet 466 on 645 Leak on Ristor Arrival H Loc Clc Box and cut off class I Map Page # R Arrival (B) Departure C Map Page # R Arrival H Arrival H Arrival H 13.128 Departure C Map Page # R Arrival H Arrival H Arrival H Departure C Map Page # R Arrival H Arrival H Departure C Map Page # R Arrival H Departure C Arrival H Departure C Map Page # R Arrival H Departure C Departure C Departure C Departure C Departure C Arrival H Departure C De			1424 Farley Ct		
Map Page # R Arrival H Departure C II-45 Map Page # R Arrival B Departure C Departure C Map Page # R Arrival B Arrival B Arrival B Arrival B Arrival B Departure C Map Page # B Arrival B Arrival B Arrival B Departure C Map Page # R Arrival B Arrival B Departure C Map Page # R Arrival B Arrival B Departure C Map Page # R Arrival B Arrival B Departure C Map Page # R Arrival B Arrival B Arrival B Arrival B Arrival B Departure C Map Page # R Arrival B Arrival B Arrival B Departure C Map Page # R Arrival B Arrival B Arrival B Departure C Map Page # R Arrival B Arrival B Arrival B Arrival B Departure C Arrival B Arrival B Arrival B Departure C Arrival B Departure C Arrival B Arrival B Departure C Arrival B Arrival B Arrival B Arrival B Arrival B Arrival B Departure C Arrival B Arrival B Departure C Arrival B Arrival B Arrival B Arrival B Departure C Departure	Departure	C			
Arrival Arrival Arrival Departure C Departure C H28 For legich aced to Digup Risery and Raise Frank Riser suith correction to the last and Raise Frank Riser suith correction to CODE Riser correction Riser correction Riser correction CODE Riser correction CODE Ticket # Frank Riser suith correction to CODE H28 For legich aced to Digup Risery and Raise Ticket # Frank Riser suith correction to CODE Ticket # Arrival H Departure C Tuo Toy off CALL 245+230 Feed Ticket # Ticket # Arrival H Departure C Found No GHS at Houses in D/K Arrival H Departure C Found No GHS at Houses in D/K Arrival H Departure C Ticket #	Map Page #	R		H.m crew4	Ticket#
Departure C Loc CK Box and Cutoff class Holds Hall Farley Ct need to Digup Risery and Raise			Found Riber with corrosion Holds and Hade To	CLASS I	
Departure Departure C Hab Far level to need to Digup Risery and Raise Ticket # Frame Pack House and need meter Protection CODE Town & La Leak Departure Departure Departure Ling at the over sewer at found nocks Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arriv	Arrival	Н	Las CK Bar and Cutath as meed	Risere or resio	CODE
Map Page # R The come Pack House and well Protection CODE Tourne Pack House and well Protection CODE Tourne Pack House and well Protection CODE Ticket # Arrival Arrival Arrival Arrival Arrival Departure C Map Page # R Arrival Arrival H Departure C Map Page # R Arrival Arrival H Departure C Map Page # R Arrival Arrival H Departure C Map Page # R Arrival Arrival Arrival H Departure C Map Page # R Arrival Arrival Arrival Arrival H Departure C Map Page # R Arrival Arri	Departure	C	LDC C/C (CA CITEZ CW) O TY CL M332	HOISE	
Map Page # R Arrival Departure C Departure Departure			1428 Farley ct need to Digup Risery and Raise		
Departure CODE Town & Nales & Ticket # Arrival H Arrival H 13.28 Departure Code Ticket # Arrival H 15.15 R Departure Code Ticket # Arrival H Arrival H Departure Code Ticket # Arrival H Departure Code Ticket # Ticket # Code Ticket # Code Ticket # Code Ticket # Code Ticket # Departure Code Ticket #	Map Page #	R		NEW YORK	Ticket#
Departure C Map Page # Arrival H Departure IS:15 Map Page # Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arrival H Departure C Map Page # Arrival H Arrival H Departure C Map Page # Arrival H Arrival	Amberl	/iA	Frame Pack House and need meter Protect	tion	2005
Departure C Map Page # Departure C Arrival H 13:38 Departure C Ling at 4/L over sewer at found pooks Map Page # Arrival H Departure C Two Toy off CALL 245+230 feed Map Page # Arrival H Departure C Two Toy off CALL 245+230 feed Map Page # Arrival H Departure C Two Toy off CALL 245+230 feed Ticket # Ticket # Departure C Two Toy off CALL 245+230 feed Ticket #	Arrivai	(A)	4		CODE
Arrival H 13:28 Departure C 15:15 Map Page # R Arrival H Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Arrival H Departure C Departure C Map Page # R Arrival H Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C	Departure	С	round haveak		
Arrival H 13:28 Departure C 15:15 Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C	Map Page #	(P)			Ticket#
Arrival H 13:28 Departure C 15:15 Map Page # R Arrival H Departure C Departure C Map Page # R Arrival H Departure C		F	2419 Craphton Rd.		
Departure IS.18 Ling att/L over sewer at Found rocks Map Page # R Arrival H Departure C	Arrival	H	V	VCIASZ V	CODE
Map Page # R Arrival H Departure C Map Page # R Departure C Map Page # R Arrival H Departure C		С	Hade To meet sim and Bartest sewer		057-969
Map Page # R Arrival H Departure C Map Page # R Departure C Map Page # R Arrival H Departure C			lind atell over somer at found 1 ach		1607-8000
Arrival H Departure C Two Toy off CALL 245 +230 reed Map Page # R Arrival H Departure C Map Page # R Departure C Map Page # R Arrival H Departure C Departure C	Map Page #	R			
Departure CommanHold in Int 80% LEC Pull Two Toy off CALL 245+230 read Ticket # Arrival H Departure Code Ticket #	Ambient		Mitakh 2070643 and round 9070 La		CODE
Departure C Two Toy off CALL 245 \$230 rest Map Page # R Arrival H Departure C Found NogH3 at Houses in B/K Arrival H Arrival H Departure C Two Mantishs Toy off 1% LEL CODE Departure C CODE	Arrival		in manHald inIn+ 80%LEL Pull		CODE
Map Page # R Hum Grew 4 Lead TO Price Out CODE Departure C Map Page # R Arrival H Arrival H Departure C Departure C Departure C Departure C	Departure	C			
Arrival H Departure C Found Noghs at Houses in B/K Map Page # R Arrival H Departure C Departure C Departure C	Map Page #	R			Ticket #
Departure C Found Noghs at Houses in B/K Map Page # R Arrival H Departure C Departure C	Amircal				0000
Departure C	Arrivai	П	1211LI GASMail CLASSI		CODE
Departure C	Departure	C	to add a che at Unices' in Rh		
Departure C	Map Page #	R	FULLIO PO GI TOUSCS TO DIK		Ticket#
Departure C	Arrival	Н	and RE-C/K Two Mantishes Top of 10 LEL	-	CODE
Non Page # P	Departure	0			-
Will write a first transfer and	The state of the state of	_		2 2 3	-

DPU Inspector 245 visits H&M crew #4 still working the leak. Additional drill holes made near the main. Readings drop to 7% LEL in manhole due to venting. Leak Downgraded to Grade II at 21:30

Contractor:	DAILY WORK REPORT	Date : 1/7/09	7
Supervisor: Oalmer	(Unit No. 245#	7//09	H = Henrico C = Chesterfie
TIME Arrival H	DESCRIPTION OF WORK	PAVING	R = Richmond
0730 odlin	11-4: 1	REQUIRED	
Departure C	Letting Location his A+m Ore	wa	057-964
Map Page # R	& sich auto Stop		1002-8700
Arrival H			Ticket #
11:00 Am Meetin	E Will H+m +207#		
Departure C	2000-10-111-4201		CODE
Map Page # R		-1.3	1 1011
Arrival H	# 1429 Farley Ct - Class - 24	12.14	Ticket #
1.00 Am	Le 148 les 2 1 7 11 0.		CODE
Departure C	P. D. I'S" E. T. P. D. D. D. D.	2	CODE
ap Page # R	Cal 118" EX Flow Wales. Ciry tester		
Arrival H	0/6 for 5 min		Ticket #
Departure C			CODE
		 	
p Page # R	50 11 of 01 -2		
Arrival H	219 N 18 St-Class I- 241T		Ticket #
eparture C See en C	I man Holo. 7/6 ggs. Hal crew Z	7:11 6	CODE
Ile6"4Pc	9 main . Turnel leak oreit Nie		
Page# R	: Suitale Seak oreit Neg	J. ew8#	
Arrival H			Ticket #
8!00fm Crew 4#	2407 Creighton RO-Class I- 2	2427	CODE
130Pm 90% LEL		-70	
Page # R		- $ $ $ $ $ $	
rrival H	C4/1 61 61		Ticket #
parture C	of the seel Readings drop.	to	CODE
(17%LEL	Down graded to Class II	1) /	
Page # R	y aures to Class II		
rival H			Ticket #
rture C	4		CODE
		7 -	
Page # R			

Attachment E: Leak 562586, Continued H&M report confirms leak downgraded by Inspector 245

HENKELS & MENKELS & MENKEL	CODE NUMBERS USI-964-16-7-8700	HRS 13
DAILY WORK REPO	RT TOTAL	IRS
NO. <u>03-05-4300-00</u> DATE	1-7-09	
COMPANY 0 4 CITY	Richment va INIT.	
DESCRIPTION OF WORK ACCOMPLISHED	PERSONNEL	HRS
D8100	SUPT. Chris Howard ASST. SUPT.	13
We sent crew's home at 10:00 due	FOREMAN	
to Rain,	Pipe Fitter	-
Went to city menting and win forer	Pipe Fitter LABORERS	
tilet's, time sheet's and work order's		
Cruntlo- 219 NISTS	D/T OPER	
met 245 on dessI, waitel on coward	B/H OPER	
utility s. We stanted drilling out over		
Limain and Ir main only Found very	TRAINER	-
Small readings, doiled tracker in both	OVADOSARI S SOUDHISAS	- une
We were releved by mich of cooper	TRUCK AND EQUIPMENT /2949	HRS
we were referred by might come	BACKHOE	102
Count 4- 28th & creishton del	DUMPTRUCK	1
mat 245 on class t, cru had already		
Start of drilling and Il main and	CRASH TRUCK	
block to deal end then we started	WELDER	
Dice, no al good q, & trailed deiled		
Fy four and inbetween holes, We had	CHARGEABLE MATERIALS	
I area's that move holding gre, Menholis	SM. MISSLE SHOT / PER FT	
only had TLEL we stanted to conthole	G. MISSLE SHOT / PER FT	
Joan bradel and we will be for ferrorson	REMARKS	
21:30	111	
	Il teat .	

H&M returns to work the leak as a grade II leak on 1/8/09

HENKELSEMCO	DAILY	WORK REPO		
NO. 03-054300-04		APPROVED B Y	O519641002870	
COMPANY DPU		CITY Richm	4301012 4301013 A	
LOCATION / ADDRESS:	(2407 Creight	1 01 7	- AGUITA	
PAVING CODE: 05/964/	(2481 (Reight		IO. 23 NE SERVICENO	
	agoras	GAS MAP PAGE N		
H ASPHALT	CONCRETE	DIRT/GRASS/SE	- Carana	
Bahres 5x5			JOB IS COMPLETE	
/	SIZI	SERVICE REP	JOB IS INCOMPLE AIRED EXISTING PIPE	TF
MAIN REPAIRED SLEEVE INSTALLED HUBS SEALED JOINT TIGHTENED COUPLING TIGHTENED VALVE	CAST IRON STEEL PLASTIC GALVANIZED	SERVICE REP MAIN TO CC CC TO METER 1/2" PE 1" PE	LACED GALVANIZED STEEL	
LEAK PINPOINTED YES NO DESCRI		LES DRILLED	PERSONNEL SUPT.	HB
SHORING BOX USED			ASST. SUPT.	
TYES □ NO □ AIRT	ESTEDF	PSIMIN.	FOREMAN B. HOWARD	8
TAILBOARD MEETING ☐ YES ☐ NO TOPIC			ASST. FORE. M. boes	8
TOPIC .			LABORER #1 D. GARCIA	8
Arrived on Joe	site set up 7	tenffic	LABORER #2	
Control, loston Util	ity Machines	over found	FLOATER	
tuso Marke Acces	Veg both A	ras both	1	m 8
hos was over 940	et deed, Dut	Shiring.	D/T OPER	
boy in first hole o	went in and	hand dag	B/H OPER Hatchin	8
Cleaned MAIN, found	nothing, Know	t bar bith	B/H OPER	
WAYS, PICKED UP SI	MAIL REGULTES	going towards	TRAINER	
dead, en back for	EN with GRAV	el And MC3		
tample with Reals	332 . Nug Ses	in hole	CHARGEABLE EQUIPMENT	r HRS
5X5 And The feet	deep pot Sho	RING LON IN	TRUCK W/TOOLS 33732	8
hole, went in and har	a Chaned man	n. tound	BACKHOE 89013	8
MANAMICAL DINT ST	AP Chroxed BY	al found	DUMPTRUCK 5657	18
SMAIL FIZZ, Tanten	no more fizz	2. Rasket	COMPRESSOR	
TUTOS MED SO/15. KNOW	et bae back.	Checked with	CRASH TRUCK/Hours	
no case, picked us	nothing bar	ttille hole	CRANE TRUCK/Hours	
with gravel, and M	C3. HAMPEN A	CALAIN	ARROW BOARD/Hours	
No Complete Bil	WAM to 4:30+	7	HOE RAM/Hours	
			TRENCHER/Hours	
			SM. MISSILE SHOT/Hours	
		E DE LA	LG. MISSILE SHOT/Hours	
			STEEL PLATES/Hours	The same
m # 004 3/06			SIGNED BOSWARD	

Attachment E: Leak 562586, Continued H&M repairs the grade II leak on 1/9/09

HENKELS & M°COY, Inc. NO. 08-05439 -04 APPROVED BY			ODE NUMBERS 05196410028700	HE	
COMPANY DPU		13 (-1	4301012	
	(1 1 1 1	1	76	4301013 A	
LOCATION / ADDRESS		nd)		SERVICENO	
PAVING CODE: 034	#1 0078700	GAS MAP PAGE N	0. 23 NE	SERVICENO.	~
H ASPHALT	CONCRETE	DIRT/GRASS/SE	ED GRA	DE OF LEAK:	2)
C 6×6		A CONTRACTOR OF THE PARTY OF TH	JOB	IS COMPLETE	
R				IS INCOMPLETE	-
MAIN REPAIRED SLEEVE INSTALLED HUBS SEALED JOINT TIGHTENED COUPLING TIGHTENED VALVE	CAST IRON SIZE STEEL PLASTIC GALVANIZED	SERVICE REPL MAIN TO CC CC TO METER 1/2" PE	ACED	KISTING PIPE GALVANIZED STEEL PLASTIC CAST IRON COPPER	
LEAK PINPOINTED YES NO DES	SCRIPTION drile 8	LES DRILLED	PE	RSONNEL	HB
SHORING BOX USED			SUPT.		-
YES NO	AIR TESTEDP	PSIMIN.	ASST. SUPT.	1640	8
TAILBOARD MEETING			FOREMAN D.	HOWAK	8
YES NO TOP	PIC		ASST. FORE. //	1. Jones	8
Aprived on Joh	Site set un traf	Fic Contaul	LABORER #1	MASTRO	8
looke Utilian Mai	e Kings over drilled	8 holes	LABORER #2 //	()(A)/KO	0
Checked with indice	cator and Dicked u	2 96% 945	D/T OPER	uashingtor	8
in one AREA, DURG	1 -1 -1	under indicate	D/T OPER	Dimingo.	-
DICKED UP 75% 96	s in some hot s	at Masked	B/H OPER	Matchen	18
And Cut hot 6x6	dug your 9/2 fee	+ AIR TANCE	B/H OPER	- Trenen	
intil main was to	sund Dut Shoning "	n hole went	TRAINER		
n And hand Clea	med AROUND main.	Carled Smell			
245 gar, tan	sint. Sono Check O	aint blowing	CHARGEAE	BLE EQUIPMENT	HRS
Peal good typhen,	SOAD CHECKER, MO	More leak)	TRUCK W/ TOOLS		8
Kosloed nuts And	bolts, with Kno	CK BAN KUTH	BACKHOE	89013	8
MAYS DICKED UP à	7% And 4% 9AS. K	back filled	DUMPTRUCK	5657	8
ble with grave!	And MC3. famp	ted bith	COMPRESSOR		
Real good. Cleante	d up AREA, DICKED	up teaffic	CRASH TRUCK/H	ours	
on-Ed Job Omic	000		CRANE TRUCK/H		TIME
			ARROW BOARD/H	lours	
		197	HOE RAM/Hours		
		06	TRENCHER/Hours		
		7	SM. MISSILE SHO	T/Hours	
			LG. MISSILE SHOT	T/Hours	
		The second secon			
			STEEL PLATES/Ho	urs	