8 12-31-99 1-1-2000 \_\_\_عمد

1-3-2000 Checked everything Still has Aludge on top of Clarifier - Olipped for It agdin- Called all the pro He is going to send Lix it 1-4-2000 Sent bill out Yalked to Barbara Rick Told her I had called Joe Ewalt aquasource he had said he would get maintenance Crew alkee to Jud 70 he is going to sample today said fast test, Came off ot - Go figure ID called said Plant was BAD. Washing did Thornton to pumpout to check it - plant Was about to washout

Pump cannot beep up

with Fd I it was a

mess but con't do anything

10 1-5-2000 Effluent look

11 1-12-200 checked plant. Seraped clarifin ded chloring tobs Efflient looks good 1-13-2000 get hour meter Enstalled 76.9 reading on miter, added & take Chlorene washed down Scraped clairfeir dipped 5 ludge off top 1-15-2000 added Chloren To Clarifii looks good retuik seems a lid hour moter 1-17-2000 checked plant added 2 Chlosine Tobe 95.5 haur mit

12 1-192000 effluent looks goo 0 105.2 hour milt -23-2000 bed werythers 2 claske 1-25-00 Sent bill out checked plant added chlore ffluent looked good - 27-00 it looks good 148.8 hour motor

1-31-2000 168.4 hour 3-2000 14 2-7-2000 2-9-00 looks good to fix hydrant checked plant added chloring ataks Seraped Clarifui ded draw down on ump at c/2 base

<b>D</b> .		
	Dump pit 12 x 2 x 1 x 7-48 = 179,52 gal	
D <sub>1</sub>	7-48 = 179,52 gaz	
	12 inches	
1.	1, 91 00 /meh	
	14.96 gal/ench	
	5 notes in 2.5 minutes	
9	14.96 gal/ind X 5 miches 14.96 gal/ind X 5 miches 4986 gal/hex X 60	
	14.96 gal/inch , 4986 gal pro X60	
<b>n</b> .	74.8 gaz/acc	i3.
	150 Dec	i.
	30 gpn	
	15-16= 9180 gpd	
N.		-54
	17-18 = 8730 gpd	
	19-22 = 10,440 gpd 23-26 = 8640 gpd	_
		-3
	27-30= 8820 ggd	
	reported to Joe Eurolt	
	reported to Jo	-
<b>D</b> .		
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16 2-11-2000 1/1 Weekend 86.0 hr. meter alled bow. 2-18-00 1 hs -21-00 ashing out

2-24-2000 glhs Backed everything 387.8 hrm o sludge in and 2-28-2000 398.4 miles checked plant Washed down Scroped clarifin Lebruary 1-2 11,250 9684 16308 18720 10-14 9360 15-18 19-23 22, 230 24-25 17,370 26-27 9540 Jotal yor month 406170

18 March 5, 2000 1.5h 425,4 hr. Miter washed down low solids in aeration basin - Some are stat to build backvery light ton Scraped clarifier. March 7, 2000 I called about not Receiving Pay Jose Danuary Also told then we need garboge pick up Talked to Leider March 9, 2000 2 hrs Scraped Clarificione Washed downl aeration basin stil light on Solids

3-13-00 sprayed all of plant.
added chloring
Scraped elarifici added chloring Scraped clarifici Washed down Solids still low gettig better 3-17-00 2 hrs Washed down Seraped Walls of clarificing then used Isrush added elloring Starting to look Cleaned bas ses 3-21-00 2 LA 546.8 hr. miter Wash down leaned har seree craped walls disped sum added 5 chloring

20 3-22-00 1-5 hr 554.4 hour meter par persen grabbed feed coli Bampa for Four 2 hours 72-1 hour meter Deaned bur screen Ocraped walls & cleaned with brush Washed down Solids, still low in some leavy sludge con to top of clarifier 1.52 3-28-00 erased Clarificande de Chloris lipped Stum fluent hazy

21 March 31, 2000 cleaned box preen Scraped clarifier 3 tu de Deel Sein added Chlorine 592. hour mater Went back in the Collected a Fecal Sample took to Fouse drue tim + 3 ample 2 hrs delwers Sample collection 1 hr april 2, 2000 Checked plant Ram 4-5-00 620,6 Rour mater cleaned bar screen seraped clarifien washed of added 10 ellowing techs the Chlorine tablets dissolve too fast

22 4-14-00 hour mater added 5 Chlorene Oleaned bar Derse eraped wet well wasted down 4-16-00 Cleaned bar screen washed down added chloring effluent OK 4-18-00 Washed down added Oller allok 4-20-00 698,6 meles led 5 Chlorine tablets ned bar screen Effluent looks better longe is out up & chlor Put five in the tube

23 729.4 12 chloring labor again to Elock Chlore 4-28-00 Forser ficked up another Sample 4-30-2000 all the chlorine are not any good a taal tan added 20 Weedeut & op rayed Weed killer desped Seum Washed doub Scraped Clarylin

25 5-2-2000 752.8 hour meter adled chlorini dipped pre 5-4-00 762-1 hour meter added chloren Washed down disped soun Mey 6, 2000 771.4 hour meter added Chlorine Scroped clarifici Washed down May 8, 2000 780.1 Rour meter Washed down added chloring May 10, 2000 washed down Seraped clarifica

May 12,2000 1980 hour meter ocraped clarifier walls added 14 Chlorine tob Called about not getting payagain May 14, 2000 807-8 Jour mety washed do May 15, 2000 814.3 hour meter Washed down added & Chlorine Barbara Risk Calle Said they had received Complaints of odor Containers d called for Ewalt told him of the problem d'changed, the lenier A Constantle

27 I could not smill any thing-Washed down Scraped Clarifier added chloring tabs Called about pay again 5-18-00 820.9 Hour miles Went over to check on odon again - I could not proble any stone Oot different chloring tablets down dipped Sum May 20, 2000 826.90 hour meter Washed dour changed timer again called about check again

28 5-22-00 845.0 hour moter digged seum added chlorine May 24, 2000. dded chloren ) asked down May 25,2000 Called about pay Check AGAIN. May 26, 2000 864.0 hour mi added chlorem Washed down Scraped clarifier disped scum Adjusted RAS a May 29, 2000 875. & hour moter Washed down. added chloring 5-31-00 washed down added 12 chloring

30 889.0 hour moter Washed down added chlorin 1 hour m oso gels. 6-5-00 2 chloren sticking

31 6-8-00 hour me Washed down Scraped clarifin added chloring 6-12-00 Washed down added chloring pulled weeds 6-14-00 6-16-00 Washed down Scraped clarificado chloris 6-19-00 Washed down scraped clarifini added chlorini 1018,0 Rour

32 6-22-00 1032.2 Lour M Washed done looks of 6-25-00 1044,8 chour mi will need to pum 6-28-00 1062.1 hour meter added 12 Chlorine Scraped walls 1066.5 hour me Washed does edded allow ause leggi

7-3-2000 1075.6 hour mite 20 ded 8 chloring Washed down Scroped clare 7-5-00 Heavy 1083.0 7-7-00 Washed down added chloring Will set up to plen Sludge mone ay 7-10-00 1090.5 hour madded chloring Washed down bar Scr ellorine contact la out 5 cum took out aprox 2000gals

35 7-26-00

36 ug ust ! effluent looked good Journ Scraped alarefin ( despes semme ( cleaned bar seree

37 Unquet 11 Washed Slow cleaned screen added chloring tablets Sprand Weed killer neid to get more finest 6 hour me pped Sce Called Thosaton De will do it us ust 15ornton clea ant Soum - Cleaned out ashed down Cleaned Dar Screen Lab all around fence 1230.1 hour mite



1601 Greentree Court Clarksville, IN 47129

Facsimile

OCT 03 2000

R.A. WILLIAMS CO., INC.

Date 10/2/00 TO DARREN HENRY

COMPANY R.A. WILLIAMS CONST. Telephone Facsimile 859-263-5065 Total Pages 5

From JEF EWALT Telephone (812) 284-0090 812-285-6978 (812) 284-0095 Fax

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KENTUCKY CLIMATE CENTER DEPARTMENT OF GEOGRAPHY AND GEOLOGY WESTERN KENTUCKY UNIVERSITY

(Station ID: 151998) STATION: CYNTHIANA\_2, KY

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M = missing, e = estimated, T = trace

P - pusliminary data, P final data from MCDC

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보면 보다 있다. - 1985년 - 1985	
는 사람들이 있다. - 사람들이 많은 사람들이 있는 것이 되었다.	
는 수도를 받았다. 	
사이트 등 경험 등 경험 	
는 이 등 환경 발생으로 있는데 보고 있다. 	
사용 전환 경험 전환 경험 전환	
사이트 사용하다 사용하는 것 	
- 1985년 1월 1일	
마르크 (1985년) (1987년) 	
도 있는 것이 되었다. - 현실 사용 기업	
마이트 사용 사용 경기 전 경기	
도로 보통 및 경기 및 기계	
- Managara Managara - Managara M	



SHIELD
Page 1 of 2

Subsystem:		Maple	Court		Manhole Nun	1ber:	Manhole #1		
Size:	4)	6'		10'	Inspector:		KM Reg	gan	
Date:	-	10/19/			Time:				
Weather Condit	nons:	Sumiy	oc ury		1 omposition				
Cover:	x	Solid			Frame:		X	Low	
C0701.		Ventil	ated					Shifted	
		Lock						Crooked	
		Bolted	ı				X	Loose	
		Doited							
Riser:	X	Precas	st		Corbel and B	arrel:	X	Precast	
		Block						Block	
		Brick						Brick	
		Poor J	oints					Poor Joints	
		Leakiı	ng					Leaking	
	-								
Bench:	X	Poure	đ		Chann	el:	<u>X</u>	Poured	
		Brick					Brick		
		Other						Other	
		Poor						Poor	
		Missi	ng					Missing	
	x	Dirty	(Explain	)				Dirty (Explain)	
							4.76'	Depth to invert from top of ring	
Main Line	NA	Size			Main 1		8"	Size	
Up Stream to MH ###		Depth	of Flow		to MH	Stream I 8	1/3	Depth of Flow	
14111		Mater	ial				vc	Material	
		Crook	ced				NA	Crooked	
		Obstr	ucted				NO	Obstructed	
			(Explain	)				Dirty (Explain)	
				-					



Subsystem:		Maple Court	Manhole Number:	Manhol	le #1
Side Line Up	NA	Size	Side Line	NA	Size
Stream to MH ###		Depth of Flow	Down Stream to MH ###		Depth of Flow
		Material			Material
		Crooked			Crooked
		Obstructed			Obstructed
		Dirty (Explain)		***************************************	Dirty (Explain)
Manholes:	96.34'	Top of Ring Elevation			
	91.58'	Invert Elevation			
Steps:		Broken			
	X	Missing			
		Worn			
Comments:	There are	no visible cracks or other failures	; ring and lid paved over	r slightly a	and somewhat loosely fitting;
		ated on the bottom of the manhole			
		und the manhole lid.			
	,				







Subsystem:		Elm C	ourt		Manhole Number:	Manhole #2		
Size:	4')	6'	8'	10'	Inspector:	KM Re	gan	
Date:		10/19/	00		Т:			
Weather Condi					Temperature:			
Cover:	X	Solid			Frame:	<u> </u>	Low	
		Ventil	ated				Shifted	
		Lock					Crooked	
		Bolted	l			<u>X</u>	Loose	
Riser:	X	Precas	it		Corbel and Barrel:	X	Precast	
		Block					Block	
		Brick					Brick	
		Poor J	oints				Poor Joints	
		Leakir	ng				Leaking	
Bench:	X	Poured	i		Channel:	x	Poured	
Benon.		Brick					Brick	
		Other					Other	
		Poor					Poor	
		Missin	ıg				Missing	
	X	Dirty (	(Explain)	•			Dirty (Explain)	
						5.24'	Depth to invert from top of ring	
Main Line	NA	Size			Main Line	8"	Size	
Up Stream to MH ###		_ Depth of Flow  Material			Down Stream to MH 9	NA	Depth of Flow	
1 <b>VIII</b> ###					White	vc	Material	
		Crook	ed			NA	Crooked	
		Obstru	icted			NO	Obstructed	
		Dirty (	Explain)				Dirty (Explain)	



Subsystem: _		Elm Court	Manhole Number:	Manho	ole #2
Side Line Up	NA	Size	Side Line	NA_	Size
Stream to MH ###		Depth of Flow	Down Stream to MH ###		Depth of Flow
		Material			Material
		Crooked			Crooked
		Obstructed			Obstructed
		Dirty (Explain)			Dirty (Explain)
Manholes:	107.65	Top of Ring Elevation			
	102.41'	Invert Elevation			
Steps:		Broken			
		Missing			
		Worn			
Slight sediment	tation locat	o visible cracks or other failures			
forming a depre	ession arou	nd the manhole lid.			

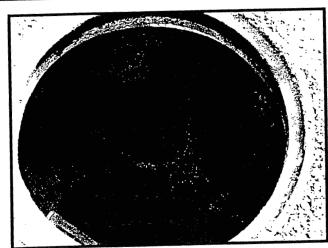


Subsystem:		Pine R	oad Cou	rt	Manhole Number:	Manhole #3		
Size:	4')	6'	8'	10'	Inspector:	KM Re	gan	
					Time:			
Date:					Temperature:			
Weather Condi	tions:	Sulliy	ac ury					
Cover:	<u>x_</u>	Solid			Frame:	<u> X</u>	Low	
		Ventilated					Shifted	
		Lock					Crooked	
		Bolted	l			<u> </u>	Loose	
<b>T</b> .	X	Precas	· <b>+</b>		Corbel and Barrel:	X	Precast	
Riser:		Block					Block	
		Brick					Brick	
		Poor J	oints				Poor Joints	
		Leaki					Leaking	
	<u></u>	Loukii	u <b>.</b> 5				. · · · · · · · ·	
Bench:	X	Poure	d		Channel:	<u>X</u>	Poured	
		Brick					Brick	
		Other					Other	
		Poor					Poor	
		Missi	ng				Missing	
		Dirty	(Explain)	)			Dirty (Explain)	
						4.90'	Depth to invert from top of ring	
Main Line	NA	Size			Main Line	8"	Size	
Up Stream to		•	of Flow		Down Stream to MH 4	. NA	Depth of Flow	
MH ###		Mater				VC	Material	
		Crook				NA	Crooked	
		Obstr				NO	Obstructed	
		•	(Explain	)			Dirty (Explain)	



Subsystem:		Pine Road Court	Manhole Number:	Manhole	#3
Side Line Up	NA	Size	Side Line	NA_	Size
Stream to MH ###		Depth of Flow	Down Stream to MH ###		Depth of Flow
		Material	_		Material
		Crooked			Crooked
		Obstructed			Obstructed
		Dirty (Explain)			Dirty (Explain)
Manholes:	113.22	Top of Ring Elevation			
	108.32*	Invert Elevation			
Steps:		Broken			
		Missing			
		Worn			
Comments:	There are	no visible cracks or other failure	es; ring and lid paved ove	er slightly a	nd somewhat loosely fitting;
Top of manho	ale ring rece	essed in pavement forming a dep	ression around the manh	ole cover.	
1 op of mamic	ne ing iee				







Subsystem:		Evergreen and Pine Road			Manhole Nu	ımber:	Mannole #4		
Size:	4)	6'	8'	10'	Inspector: _		KM Re	gan	
	4)	10/19/		7-2	Time:				
Date:					-			s (F)	
Weather Condit	tions:	Sumy	æ uiy		- Temperatur				
Cover:	X	Solid			Frame:			Low	
COVCI.		Ventil	ated					Shifted	
		Lock				_		Crooked	
		Bolted	Ī				<u> </u>	Loose	
		Bonoc	•						
Riser:	X	Precas	st		Corbel and	Barrel:	X	Precast	
		Block						Block	
		Brick						Brick	
		Poor J	oints					Poor Joints	
		Leaki	ng					Leaking	
Bench:	<u> </u>	Poure	d		Char	nnel:	<u>X</u>	Poured	
		Brick						Brick	
		Other						Other	
		Poor						Poor	
		Missi	ng					Missing	
	X	Dirty	(Explain)					Dirty (Explain)	
							3.53*	Depth to invert from top of ring	
Main Line	NA	Size				n Line	8"	Size	
Up Stream to		Depth	of Flow			vn Stream IH 9	. 1/3	Depth of Flow	
MH ###		Mate					VC	Material	
		Crool					NA_	Crooked	
		•	ucted				NO	Obstructed	
		•	(Explain)	)				Dirty (Explain)	



Subsystem: Ev		Evergreen and Pine Road Manhole Number: Manhole #4		Manhole #4
Side Line Up	NA	Size	Side Line	NA Size
Stream to MH ###		Depth of Flow	Down Stream to MH ###	Depth of Flow
		Material		Material
		Crooked		Crooked
		Obstructed		Obstructed
		Dirty (Explain)		Dirty (Explain)
Manholes:	110.51	Top of Ring Elevation		
	106.98'	Invert Elevation		
Steps:		Broken		
	X	Missing		
		Worn		
		out of the channel	slight corrosion of ring	and lid; slight sedimentation located on



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Subsystem:

Weather Conditions:

Size:

Cover:

Riser:

**4**<sup>7</sup>**)** 

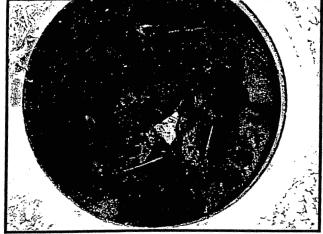
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	rook Subdivision	
End of Pine Road	Manhole Number:	Manhole #5
6' 8' 10'	Inspector:	KM Regan
10/19/00	Time:	1300
Sunny & dry	Temperature:	Mid-60s (F)
Solid Ventilated Lock Bolted	Frame:	Low Shifted Crooked X Loose
Precast	Corbel and Barrel:	X Precast
Block		Block
Brick		Brick
Poor Joints		Poor Joints
Leaking		Leaking
Poured Brick Other	Channel:	X Poured Brick Other
Poor		Poor
Missing		Missing
Dirty (Explain)		Dirty (Explain)
		5.35' Depth to invert from top of

		Leaking			Leaking
Bench:	<u> x</u>	Poured	Channel:	X	Poured
		Brick			Brick
		Other			Other
		Poor			Poor
		Missing			Missing
	<u>X</u>	Dirty (Explain)			Dirty (Explain)
				5.35'	Depth to invert from top ring
Main Line	8"	Size	Main Line Down Stream to PS	8"	Size
Up Stream to MH 10	2/3	Depth of Flow		2/3	Depth of Flow
	VC	Material		<u>vc</u>	Material
	NA	Crooked		NA	Crooked
	NO	Obstructed		NO	Obstructed
		Dirty (Explain)			Dirty (Explain)



Subsystem: _		End of Pine Road	Manhole Number:	Manhole #	5
Side Line Up	NA	Size	Side Line	NA Siz	ce
Stream to MH ###		Depth of Flow	Down Stream to MH ###	De	pth of Flow
		Material		Ma	terial
		Crooked		Cre	ooked
		Obstructed		Ob	structed
		Dirty (Explain)		Dir	ty (Explain)
Manholes:	96.34	Top of Ring Elevation			
	90.99*	Invert Elevation			
Steps:		Broken			
		Missing			
		Worn			
Comments:	There are n	no visible cracks or other failures;	slight corrosion of ring	and lid; heavy	sedimentation located on
he bottom of t	he manhole	out of the channel; sticks and nor	n-organic debris is locat	ed in the manl	nole; there is standing
vater in the ch	annel				
		23. 1	AMA ST	14.	





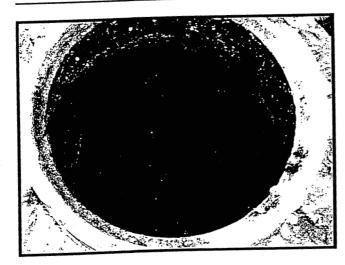


Subsystem:		Entrance to WWTP			Manhole Number: Manhole #6		
Size:	4')	6'	8'	10'	Inspector:	KM Re	egan
Date:		10/19/	00		Time:		
Weather Cond							
Cover:	X	Solid			Frame:		Low
		Ventilated			<u>X</u>	Shifted	
		Lock				X	Crooked
		Bolted	l			X	Loose
Riser:	x	Precas	t		Corbel and Barrel:	X	Precast
		Block					X Loose  X Precast Block Brick Poor Joints Leaking  X Poured Brick Other
		Brick					Brick
		Poor Jo	oints				Poor Joints
		Leakin	g				Leaking
Bench:	X	Poured	l		Channel:	X	Poured
		Brick					Brick
		Other					Other
		Poor					Poor
	-	Missin	g				Missing
	<u>X</u>	Dirty (	Explain)			X	Dirty (Explain)
						2.45*	Depth to invert from top of ring
Main Line	8"	Size			Main Line	8"	Size
Up Stream to MH 7	2/3	Depth (	of Flow		Down Stream to WWTP	2/3	Depth of Flow
	DI	Materia	al			DI	Material
	NA	Crooke	d			NA	Crooked
	NO	Obstruc	cted			NO	Obstructed
		Dirty (I	Explain)				Dirty (Explain)



# Cedarbrook Subdivision

Subsystem:		Entrance to WWTP	Manhole Number:	Manho	le #6
Side Line Up	NA	Size	Side Line Down Stream	NA_	Size
Stream to MH ###		Depth of Flow	to MH ###		Depth of Flow
14111 11111		Material			Material
		Crooked			Crooked
		Obstructed			Obstructed
		Dirty (Explain)			Dirty (Explain)
Manholes:	88.63'	Top of Ring Elevation Invert Elevation			
Steps:		Broken			
	X	Missing			
		Worn			
Comments:	There are	no visible cracks or other failure	es; slight corrosion of rin	g and lid;	heavy sedimentation located on ounding manhole



NO PHOTO AVAILABLE



Subsystem:		Turn	Foward V	VWTP	Manh	iole Number:	Manho	le #/		
Size:	4')	6'	8'	10'	Inspe	ctor:	KM Re	egan		
Date:		10/19/	/00			•				
Weather Cond	itions:	Sunny	Sunny & dry			perature:	Mid-60	Mid-60s (F)		
Cover:	X	Solid			Fram	e:		Low		
		Ventil	ated					Shifted		
		Lock						Crooked		
		Bolted	i				<u>X</u>	Loose		
Riser:	X	Precas	st		Corb	el and Barrel:	<u>X</u>	Precast		
		Block						Block		
		Brick						Brick		
		Poor J	oints					Poor Joints		
		Leakir	ıg					Leaking		
Bench:	X	Poure	đ			Channel:	<u>x</u>	Poured		
		Brick						Brick		
		Other						Other		
		Poor						Poor		
		Missin	ıg					Missing		
	X	Dirty (	(Explain)				<u>x</u>	Dirty (Explain)		
							2.39'	Depth to invert from top of ring		
Main Line	8"	Size				Main Line	8"	Size		
Up Stream to MH 9	1/3	Depth	of Flow			Down Stream to 6	. 1/3	Depth of Flow		
	VC	Materi	al				DI	Material		
	NA	Crook	ed				NA_	Crooked		
	NO	Obstru	cted				NO	Obstructed		
		Dirty (	Explain)					Dirty (Explain)		



# Cedarbrook Subdivision

Subsystem:		Turn Toward WWTP	Manhole Number:	Manhol	e #7
Side Line Up	NA	Size	Side Line	NA_	Size
Stream to		Depth of Flow	Down Stream to MH ### —		Depth of Flow
MH ###		Material			Material
		Crooked			Crooked
		Obstructed			Obstructed
		Dirty (Explain)			Dirty (Explain)
Manholes:	88.80*	Top of Ring Elevation			
	86.41'	Invert Elevation			
Steps:		Broken			
	<u>X</u>	Missing			
		Worn			
	TTI 070	and visible cracks or other failure	s: slight corrosion of rin	g and lid;	heavy sedimentation located on
the bottom of	the manho	ole out of the channel			
					,
		THE RESERVE THE PROPERTY OF THE PARTY OF THE			<b>♦</b> ,



NO PHOTO AVAILABLE

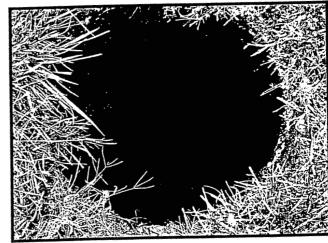


Subsystem:		Backyard of Lot 4			Manhole Number: Manhole #8			le #8
Size:	4')	6'	8'	10'	Inspe	ctor:	KM Re	egan
Date:		10/19/	00					
		Sunny & dry					0s (F)	
Cover:	<u> </u>	Solid			Frame	e:		Low
		Ventila	ated					Shifted
		Lock						Crooked
		Bolted	!				<u> </u>	Loose
Riser:	X	Precas	t		Corbe	l and Barrel:	<u>X</u>	Precast
		Block						Block
		Brick						Brick
		Poor Jo	oints					Poor Joints
		Leakin	g					Leaking
Bench:	<u> X</u>	Poured	l			Channel:	<u>X</u>	Poured
		Brick						Brick
		Other					***************************************	Other
		Poor						Poor
		Missin	g					Missing
	<u> </u>	Dirty (	Explain)				<u>X</u>	Dirty (Explain)
							4.81*	Depth to invert from top of ring
Main Line	8"	Size				Main Line	8"	Size
Up Stream to MH 9	1/3	Depth o	of Flow			Down Stream to 7	1/3	Depth of Flow
	VC	Materia	al				VC	Material
	NA_	Crooke	đ				NA	Crooked
	NO	Obstruc	cted				NO	Obstructed
		Dirty (F	Explain)					Dirty (Explain)



Subsystem:		Backyard of Lot 4	Manhole Number:	Manhole	: #8
Side Line Up	NA	Size	Side Line	NA	Size
Stream to MH ###		Depth of Flow	Down Stream to MH ###		Depth of Flow
MIN ### —		Material			Material
		Crooked			Crooked
		Obstructed			Obstructed
		Dirty (Explain)			Dirty (Explain)
Manholes:	92.19*	Top of Ring Elevation			
	87.38'	Invert Elevation			
Steps:		Broken			
	<u>X</u>	Missing			
		Worn			
Comments:	There are	no visible cracks or other failures	; slight corrosion of rin	g and lid; h	eavy sedimentation located on
the bottom of	the manhol	le out of the channel; manhole is	in a naturally occurring	depression	; lid is very poorly seating.
the observed					



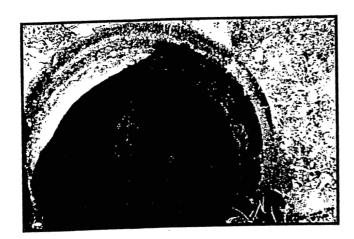




Subsystem: Backyard Lot 8			Manhole Number:	Manho	Manhole #9			
Size:	4')	6'	8'	10'	Inspector:	KM Re	gan	
Date:		10/19/	00		Time:	1510		
Weather Cond			& dry		Temperature:	Mid-60	0s (F)	
Cover:	_ <u>x</u>	Solid Ventil	ated		Frame:		Low Shifted	
		Lock Bolted	1			<u>X</u>	Crooked Loose	
Riser:		Precas Block Brick Poor J Leakin	oints		Corbel and Barrel:	X	Precast  Block  Brick  Poor Joints  Leaking	
Bench:		Poured Brick Other Poor Missin Dirty (			Channel:	X 	Poured Brick Other Poor Missing Dirty (Explain) Depth to invert from top of	
Main Line Up Stream to MH 4	8" 1/3 VC NA NO	Materi Crooke Obstru	ed		Main Line Down Stream to 8	8" - 1/3 - VC - NA - NO	ring Size Depth of Flow Material Crooked Obstructed Dirty (Explain)	



Subsystem:		Backyard Lot#8	Manhole Number:	Manho	le #9
Side Line Up	NA	Size	Side Line Down Stream	NA_	Size
Stream to MH ###		Depth of Flow	to MH ###		Depth of Flow
		Material			Material
		Crooked			Crooked
		Obstructed			Obstructed
		Dirty (Explain)			Dirty (Explain)
Manholes:	94.56'	Top of Ring Elevation			
	88.62'	Invert Elevation			
Steps:		Broken			
		Missing			
		Worn			
Comments: _		no visible cracks or other failure	es; slight corrosion of rin	g and lid;	slight sedimentation located on
the bottom of	the manho	le out of the channel			



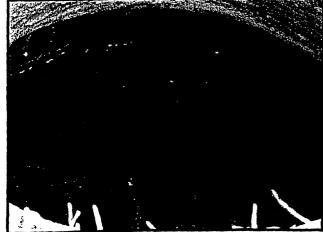


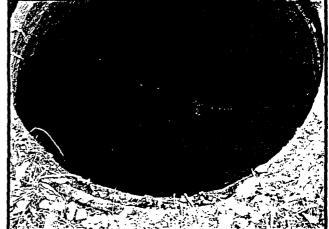


Subsystem: End of Evergreen Road Manhole Number:		ole Number:	Manhole #10							
Size:	4)	6'	8'	10'	Inspec	ctor:	KM Re	egan		
Date:		10/19/	00		Time:		1600			
Weather Cond	itions:	Sunny	& dry		Temp	erature:	Mid-60	0s (F)		
Cover:	<u>X</u>	Solid			Frame	<b>:</b> :		Low		
		Ventil	ated					Shifted		
		Lock						Crooked		
		Bolted	l				<u>x</u>	Loose		
Riser:	X	Precas	st		Corbe	el and Barrel:	x	Precast		
		Block						Block		
		Brick						Brick		
		Poor J	oints					Poor Joints		
		Leakir	ng				<u> </u>	Leaking		
Bench:	X	Poured	i			Channel:	x	Poured		
		Brick						Brick		
		Other						Other		
		Poor						Poor		
	X	Missin	ıg					Missing		
	X	Dirty (	Explain)	•				Dirty (Explain)		
							4.89'	Depth to invert from top of ring		
Main Line	NA_	Size				Main Line	8"	Size		
Up Stream to MH ###		Depth	of Flow			Down Stream to 5	2/3	Depth of Flow		
		Material					Material			
		Crook	ed				NA_	Crooked		
		Obstru	cted				NO	Obstructed		
		Dirty (	Explain)					Dirty (Explain)		



Subsystem: _		End of Evergreen Road	Manhole Number:	Manhole #10
Side Line Up	NA	Size	Side Line	NA Size
Stream to MH ###		Depth of Flow	Down Stream to MH ###	Depth of Flow
-	-	Material		Material
		Crooked		Crooked
		Obstructed		Obstructed
		Dirty (Explain)		Dirty (Explain)
Manholes:	96.62'	Top of Ring Elevation Invert Elevation		
	71.73			
Steps:		Broken		
	<u> </u>	Missing		
		Worn		
Comments:	Large crac	k on south side of barrel; slight co	prosion of ring and lid;	neavy sedimentation located on
				s located in the manhole; there is stand-
water in the ch				
		·		
		-		
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## SHIELD Environmental Associates, Inc.

Sheet 1 of 2

## Smoke Testing Data Sheet Cedarbrook Subdivision

General intol mation.				
		Date	Tested:	11/16/00
Time of Day: <u>1006</u>				
Inspected by: KM Regan/KG M				
Present Weather Conditions:V				
Previous Weather Conditions:	Windy and cold/M			
Access to Manhole:		Good	<u>X</u>	Poor
Access for Cleaning/TV:		Good	<u>X</u>	Poor
Number of Manhole Reaches Test	ed: <u>1</u>			
Total Footage Inspected: 356'				
Location of Smoke Blower: MH_	Manhole #4			
Special Problems/Comments:				
Smoke issuance from ground on se	outheast side of m	anhole 4; si	<u>noke issu</u>	ance from ground
approx. 150 feet from manhole 4 r	near telephone pol	e. See phot	os page C	2-3
Note: Draw the location of each ap	pplicable manhole	and the loc	ation of e	ach sewer plug
installed.				
	MH#9 TOR EL. 94.56' I.E. 88.62'		1	
φ	1.E. 00.02	^		
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	•			
		ာ စ	_	
<b>♦</b>		0	0	
1 18				
	MH#4 TOR EL.	11,0.51		
	I.E. 106	.98' 		
	)	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	- 43	



Sheet 2 of 2

# Smoke Testing Data Sheet, Cont.

# Leak Location/Description

# 1) Smoke Intensity

- a) Light b) Medium
- c) Heavy

# 2) Trunk Line

a) Between Manhole b) Catch Basin c) Storm Sewer X-Connection d) Other (below)

# 3) Manhole

- a) Manhole Ringb) Manhole Coverc) Crack in Walld) Other (below)

# 4) Service Connection

- a) Faulty Connection
  b) Service from Trunk/House
- c) Faulty Cleanout
- d) Area/Yard Drain
- e) Roof Leader
- f) Smoke in Building g) No Smoke from Vent h) Other (below)

		Official	Smake from ground near telephone pole	Sinc	Manhole # 4 – Smoke from ground southware	and anothered		LOCATION DESCRIPTION		DESCRIPTION	
			A			A		INTENSITY		SMOKE	
			150	150		N/A		FEET.		TRUNK LINE	
				4				MH MH		INE	
				NA			•	NUMBER	MANHOLE		HM
				TAD.	NIA		N/A	TRUNK LINE	FEET FROM		SERVICE CONNECTION
					Backyard lot #9		and the second		ADDRESS	DDBECC	NECTION





Smoke Issuance Near Manhole 4



Smoke Issuance From Ground Backyard Lot 9



# SHIELD Environmental Associates, Inc.

Sheet 1 of 2

## Smoke Testing Data Sheet Cedarbrook Subdivision

General Information:				
		Date Teste	d: <u>11/16/00</u>	
Time of Day: <u>1108</u>				
Inspected by: KM Regan/K				
Present Weather Conditions:	Windy and cold/	Mid-20s/Dry		
Previous Weather Conditions	: Windy and cold/	Mid-20s/Dry		
Access to Manhole:		Good X	Poor	
Access for Cleaning/TV:		Good X		
Number of Manhole Reaches	Tested: 1			
Total Footage Inspected:2				
Location of Smoke Blower: M	IH Manhole #5			
Special Problems/Comments:				
Smoke issuance from ground	on east side of manh	ole 5		
Note: Draw the location of each	ch applicable manhol	le and the location	of each sewer p	lug
installed.			The second secon	
	$\sim$		.	
		- ka		
	C	- N	FM.	
	ċ	-		
	~	- } . §g	12	
S	~	Ĭ	FM-	
	*u			
	3	SS	P 1	
MH	#1N °	MH#5	06 FA,	
TOF	#10 ( EL. 96.62' 91.73'	I.E. 90.	99,0.74	
1.E.	^	<b>‡</b>		
[	-ssssss	<del></del>		
			Pump Station	
1			Station	



# Smoke Testing Data Sheet, Cont.

Sheet 2 of 2

### Leak Location/Description

1) Smoke Intensity	2) Trunk Line	3) Manhole	4) Service Connection
a) Light b) Medium c) Heavy	<ul><li>a) Between Manhole</li><li>b) Catch Basin</li><li>c) Storm Sewer X-Connection</li><li>d) Other (below)</li></ul>	<ul><li>a) Manhole Ring</li><li>b) Manhole Cover</li><li>c) Crack in Wall</li><li>d) Other (below)</li></ul>	<ul> <li>a) Faulty Connection</li> <li>b) Service from Trunk/House</li> <li>c) Faulty Cleanout</li> <li>d) Area/Yard Drain</li> <li>e) Roof Leader</li> </ul>

f) Smoke in Building
g) No Smoke from Vent
h) Other (below)

DESCRIPTION	SMOKE	TRUNK	LINE		MH	SERVICE CO	NNECTION
LOCATION DESCRIPTION	INTENSITY	FEET	FROM MH	ТО МН	MANHOLE NUMBER	FEET FROM TRUNK LINE	ADDRESS
Manhole # 5 – Smoke from ground east side	A	2	5		5	N/A	End of Pine Road
				······································			
		1					



## SHIELD Environmental Associates, Inc.

Sheet 1 of 2

### Smoke Testing Data Sheet Cedarbrook Subdivision

General information:	
Subsystem: Line 10	Date Tested: <u>11/16/00</u>
Time of Day: 1143	
Inspected by: KM Regan/KG Mills	
Present Weather Conditions: Windy and cold/Mid-20s	s/Dry
Previous Weather Conditions: Windy and cold/Mid-20	s/Dry
Access to Manhole: Good	1 X Poor
Access for Cleaning/TV: Good	XPoor
Number of Manhole Reaches Tested: 1	
Total Footage Inspected: 310'	
Location of Smoke Blower: MH <u>Manhole #5</u>	
Special Problems/Comments:	
Possible smoke issuance from downspout on left rear side	of house at 388 Pine Road.

Note: Draw the location of each applicable manhole and the location of each sewer plug installed.



# Smoke Testing Data Sheet, Cont.

## Leak Location/Description

Sheet 2 of 2

1) Smoke Intensity	2) Trunk Line	3) Manhole	4) Service Connection
a) Light b) Medium c) Heavy	<ul><li>a) Between Manhole</li><li>b) Catch Basin</li><li>c) Storm Sewer X-Connection</li><li>d) Other (below)</li></ul>	<ul><li>a) Manhole Ring</li><li>b) Manhole Cover</li><li>c) Crack in Wall</li><li>d) Other (below)</li></ul>	<ul> <li>a) Faulty Connection</li> <li>b) Service from Trunk/House</li> <li>c) Faulty Cleanout</li> <li>d) Area/Yard Drain</li> <li>e) Roof Leader</li> <li>f) Smoke in Building</li> <li>g) No Smoke from Vent</li> <li>h) Other (below)</li> </ul>
DESCRIPTION	C1 * C * * * * * * * * * * * * * * * * *		/ Culor (OCIOW)

DESCRIPTION	<b>SMOKE</b>	TRUNK LINE MH SERVICE CONTROL					
		TRUNK	LINE		MH	SERVICE CONNECTION	
LOCATION DESCRIPTION	INTENSITY	FEET	FROM MH	ТО МН	MANHOLE NUMBER	FEET FROM TRUNK LINE	ADDRESS
388 Pine Road – Possible smoke from downspout – 4e	A	N/A			5	N/A	388 Pine Road
		+					
		-					
							1



## SHIELD Environmental Associates, Inc.

Sheet 1 of 2

## Smoke Testing Data Sheet Cedarbrook Subdivision

General Information:					
Subsystem: Line 9	Date T	Date Tested:11/16/00			
Time of Day: <u>1246</u>					
Inspected by: KM Regan/KG Mills					
Present Weather Conditions: Windy and cold/	Mid-20s/Dry				
Previous Weather Conditions: Windy and cold/	Mid-20s/Dry				
Access to Manhole:	Good	X	Poor		
Access for Cleaning/TV:	Good				
Number of Manhole Reaches Tested: 1					
Total Footage Inspected:					
Location of Smoke Blower: MH <u>Manhole #10</u>					
Special Problems/Comments:					
Smoke issuance from ground surrounding manhole	e 10				
Note: Draw the location of each applicable manho	le and the locati	ion of ea	ach sewer plug		
installed.			_		
			1		
		(0			
		S			
}		1			



# Smoke Testing Data Sheet, Cont.

Sheet 2 of 2

# Leak Location/Description

1) Smoke Intensity
a) Light b) Medium
c) Heavy

## 2) Trunk Line

a) Between Manhole b) Catch Basin c) Storm Sewer X-Connection d) Other (below)

## 3) Manhole

a) Manhole Ring b) Manhole Cover c) Crack in Wall d) Other (below)

# 4) Service Connection

- a) Faulty Connection b) Service from Trunk/House c) Faulty Cleanout
  - d) Area/Yard Drain e) Roof Leader
  - f) Smoke in Building g) No Smoke from Vent
  - h) Other (below)

				II) Office (posett)			
				7	MH	SERVICE CON	NECTION
DESCRIPTION	DINO	TRUNK!	LINE FROM	то	MANHOLE	FEET FROM TRUNK LINE	ADDRESS
LOCATION DESCRIPTION	INTENSITY	FEET	МН	МН	NUMBER 10	N/A	End of Evergreen Road
Manhole 10 – Smoke issuance from ground	В	N/A					
-3c		-					
		+					



## SHIELD Environmental Associates, Inc.

Sheet 1 of 2

### Smoke Testing Data Sheet Cedarbrook Subdivision

General Information:	
Subsystem: Line 3	Date Tested:11/16/00
Time of Day: <u>1310</u>	
Inspected by: KM Regan/KG Mills	
Present Weather Conditions: Windy and col	d/Mid-20s/Dry
Previous Weather Conditions: Windy and col-	d/Mid-20s/Dry
Access to Manhole:	Good X Poor Poor Poor Poor Poor Poor Poor Po
Access for Cleaning/TV:	GoodX Poor
Number of Manhole Reaches Tested:1	
Total Footage Inspected: 299'	
Location of Smoke Blower: MHManhole #3	
Special Problems/Comments:	
No faults noted.	
Note: Draw the location of each applicable manh	nole and the location of each sewer plug
installed.	
	110
0 0	7.6
4	_ ai
MH#4	MH#3
TOR EL. 110.51' I.E. 106.98'	TOR EL. 113.22' I.E. 108.32'
	-ss
	Fy
<u> </u>	
	70



## Smoke Testing Data Sheet, Cont.

Sheet 2 of 2

## Leak Location/Description

- 1) Smoke Intensitya) Light
- b) Medium c) Heavy

- 2) Trunk Line
- a) Between Manhole b) Catch Basin
- c) Storm Sewer X-Connection
- d) Other (below)

### 3) Manhole

- a) Manhole Ringb) Manhole Coverc) Crack in Wall
- d) Other (below)

## 4) Service Connection

- a) Faulty Connection
- b) Service from Trunk/House
- c) Faulty Cleanout
- d) Area/Yard Drain
- e) Roof Leader
- f) Smoke in Building
- g) No Smoke from Vent
- h) Other (below)

		TRUNK	I INE	]	мн	SERVICE CO	NNECTION
DESCRIPTION.	SMOKE	FEET	FROM	то	MANHOLE	FEET FROM TRUNK LINE	ADDRESS
LOCATION DESCRIPTION	IMENSITI		MH	MH	NUMBER 10	N/A	End of Evergreen Road
Manhole 10 - Smoke issuance from ground	В	N/A					
-3c							



### SHIELD Environmental Associates, Inc.

Sheet 1 of 2

### Smoke Testing Data Sheet Cedarbrook Subdivision

General Information:				
Subsystem: Line 1	Da	ite Tested:	11/21/00	
Time of Day:				
Inspected by: KM Regan/DL Howard				
Present Weather Conditions: Windy and cold/N				
Previous Weather Conditions: Windy and cold/N	/Iid-20s/D	ry		
Access to Manhole:		X	Poor	
Access for Cleaning/TV:		X	Poor	
Number of Manhole Reaches Tested: 1				
Total Footage Inspected: 423'				
Location of Smoke Blower: MH <u>Manhole #1</u>				
Special Problems/Comments:				
No smoke noted from two storm sewer grates; very		oke from r	nanhole #8; po	orly seated
lid; manhole located in naturally occurring low spot	<u>t</u>			
NT ( D ) (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.1			
Note: Draw the location of each applicable manhole	e and the	location of	each sewer plu	g
installed.				
MH#6				
TOR EL. 88.63'				
(Ø-sšs-(Ø			<u> </u>	
TOR EL. 88.80' 2 I.E. 86.41'				
I.E. 86.41'				
88				
3477.00	0	0	Ó	
MH#8 TOR EL. 92.19'			0	
J.E. 87.38'		MH#1		
ss——ss——ss—		TOR EL. I.E. 91.	. 96.34' 58'	
88	- SS S	os ———	-	
			0	

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## Smoke Testing Data Sheet, Cont.

Sheet 2 of 2

### Leak Location/Description

a) Lightb) Mediumc) Heavy

2) Trunk Line

a) Between Manholeb) Catch Basin

c) Storm Sewer X-Connection

d) Other (below)

3) Manhole

a) Manhole Ringb) Manhole Cover

c) Crack in Wall d) Other (below) 4) Service Connection

a) Faulty Connection

b) Service from Trunk/House

c) Faulty Cleanout

d) Area/Yard Drain

e) Roof Leader

f) Smoke in Building g) No Smoke from Vent

h) Other (below)

DESCRIPTION	SMOKE	TRUNK I	LINE	]	МН	SERVICE CON	NECTION
LOCATION DESCRIPTION	INTENSITY	FEET	FROM MH	ТО МН	MANHOLE NUMBER	FEET FROM TRUNK LINE	ADDRESS
Manhole # 8 – 3a & 3b	С	NA			8	NA	
ividinole # 0 - 34 & 55							
							1



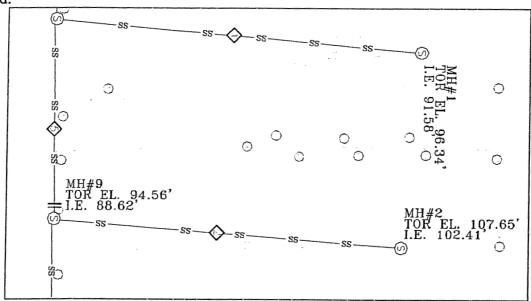
### SHIELD Environmental Associates, Inc.

Sheet 1 of 2

### Smoke Testing Data Sheet Cedarbrook Subdivision

General Information:				
Subsystem: Line 2	Date 7	Tested:11	/2200	
Time of Day:				
Inspected by: KM Regan/KG Mills				
Present Weather Conditions: Windy and cold/M	fid-20s/Dry			
Previous Weather Conditions: Windy and cold/M	fid-20s/Dry			
Access to Manhole:	Good	X	Poor	
Access for Cleaning/TV:	Good		Poor	X
Number of Manhole Reaches Tested:1				
Total Footage Inspected: 401'				
Location of Smoke Blower: MH <u>Manhole #9</u>				
Special Problems/Comments:				
Manhole 9 located in backyard with dog; prior coor	dination requ	uired for ac	cess; man	hole 9
located in naturally occurring low spot				

Note: Draw the location of each applicable manhole and the location of each sewer plug installed.





4) Service Connection

a) Faulty Connection

c) Faulty Cleanout

d) Area/Yard Drain

b) Service from Trunk/House

## Smoke Testing Data Sheet, Cont.

3) Manhole

a) Manhole Ring

b) Manhole Cover

c) Crack in Wall

d) Other (below)

Sheet 2 of 2

### Leak Location/Description

1) Smoke Intensity

a) Light

b) Medium

c) Heavy

2) Trunk Line

b) Catch Basin

a) Between Manhole

c) Storm Sewer X-Connection

e) Heavy	d) Other (below)		d) Other (below)	e) R f) S g) l	Area Yard Drain  Loof Leader  moke in Building  No Smoke from Vent  Other (below)	
THECHIPTION	SMOKE	TRUNK LINE		МН	SERVICE CON	NECTION
DESCRIPTION  LOCATION DESCRIPTION		FEET FR	OM TO	MANHOLE NUMBER	FEET FROM TRUNK LINE	ADDRESS
1					1	_



## SHIELD Environmental Associates, Inc.

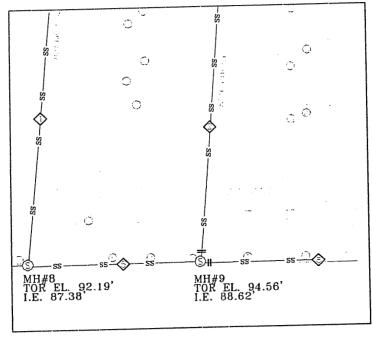
Sheet 1 of 2

## Smoke Testing Data Sheet Cedarbrook Subdivision

General Information: Subsystem: Line 5	Date Te	sted: _	11/2200	
Time of Day:				
Inspected by: KM Regan/KG Mills				
Present Weather Conditions: Windy and cold	/Mid-20s/Dry			
Previous Weather Conditions: Windy and cold	I/Mid-2US/Dry			
Access to Manhole:	Good	<u>X</u>	Poor	
Access for Cleaning/TV:	Good		Poor	_X
Number of Manhole Reaches Tested:1				
Total Footage Inspected: 234'				
Location of Smoke Blower: MH <u>Manhole #9</u>		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		
Special Problems/Comments:	1	inad fo	= occass ma	nhole 9
a to a leasted in backward with dog: Drior C	oordination requ	ireu io	hana nala	inioi <b>c</b> 5
located in naturally occurring low spot; smoke in	back of lot 8 ne	ar telej	phone pole	

Note: Draw the location of each applicable manhole and the location of each sewer plug

installed.





# Smoke Testing Data Sheet, Cont.

Sheet 2 of 2

## Leak Location/Description

- 1) Smoke Intensity a) Light b) Medium c) Heavy
- 2) Trunk Line
- a) Between Manhole b) Catch Basin
- c) Storm Sewer X-Connection d) Other (below)
- 3) Manhole
- a) Manhole Ring b) Manhole Cover c) Crack in Wall
- d) Other (below)

## 4) Service Connection

- a) Faulty Connection
- b) Service from Trunk/House
- c) Faulty Cleanout
- d) Area/Yard Drain
- e) Roof Leader
- f) Smoke in Building
- g) No Smoke from Vent
- h) Other (below)

					ŕ	SERVICE CO	NNECTION
DESCRIPTION	SMOKE	TRUNK	LINE		MH	FEET FROM	ADDRESS
	INTENSITY	FEET	FROM	ТО МН	MANHOLE NUMBER	TRUNK LINE	
LOCATION DESCRIPTION		30'	MH 9		9	NA	Backyard lot 8
Smoke issuance from ground near telephone	A	1 30					
pole							
		_					

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# CEDARBROOK SUBDIVISION Sanitary Sewer System Maximum Design Capacities

١.,				nhole No.		<b></b>		~ .		Hazen-V	Williams		Max.			levation		Elevation
Li	ne No.	From End	To End	Length	Slope	Pipe (in.)	Pipe (ft)	Capacit (cfs)	•	С	R	S	Velocity (ft/s)	Fall in Sewer		Lower End	Upper End	Lower End
	1	1	8	423.42	0.0099	8	0.6667	1.357	609.3	110	0.16667	0.00992	3.89	4.20	91.58	87.38	96.34	92.19
:	2	2	9	401.42	0.0148	8	0.6667	1.685	756.2	110	0.16667	0.01480	4.83	5.94	94.56	88.62	107.65	94.56
	3	3	4	299.25	0.0045	8	0.6667	0.884	396.6	110	0.16667	0.00448	2.53	1.34	108.32	106.98	113.22	110.51
	4	10	5	258.42	0.0029	8	0.6667	0.694	311.5	110	0.16667	0.00286	1.99	0.74	91.73	90.99	96.62	96.34
	5	9	8	234.42	0.0053	8	0.6667	0.967	433.9	110	0.16667	0.00529	2.77	1.24	88.62	87.38	94.56	92.19
	6	8	7 .	200.08	0.0048	8	0.6667	0.922	414.0	110	0.16667	0.00485	2.64	0.97	87.38	86.41	92.19	88.80
	7	7	<b>6</b> , ,	41.00	0.0056	8	0.6667	0.998	447.9	110	0.16667	0.00561	2.86	0.23	86.41	86.18	88.80	88.63

Maximum Capacity at Full Flow = 0.694 cfs or 311.5 gpm

C (Hazen-Williams Pipe Coefficient) = 110 (Vitrified Clay Pipe) R = Hydraulic Radius S = Slope

NOVEMBER 19, 2000

PROJECT NO.: 300-1770 DRAWN BY: KMR APPROVED BY: TMR TABLE NO. 1

LINE DESIGN CAPCITIES CEDARBROOK SUBDIVISION CYNTHIANA, KENTUCKY



2456 Fortune Drive, Suite 100 Lexington, KY 40509 859-294-5155



February 2, 2007

Mark C. Frost
Commonwealth of KY Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, KY 40602-0615

Re: Cedarbrook Treatment Plant

Dear Mr. Frost,

Enclosed please find the proposals for the repairs needed at the plant. You were in need of these additional quotes before you could complete the work on the surcharge. Some time has passed since I sent the other information to you. If at this point you would also like to take the actual expenses for 2006 into account please let me know as soon as possible so that I can get that information to you also.

I apologize for taking so long to get these quotes to you but Larry Smithers had some trouble finding companies that would even quote the work. If you need anything else please feel free to contact me.

Sincerely,

Susan Daugherty

Controller

PAGE 02

p. 1

RECEIVED

F- - 9 1 2007

MURPHYS EXCAVATING
379 BROOKSVIEW CR.
BROOKS, KY. 40109
PHONE-9573775-MOBIL-7733526-FAX-9576185
2-1-07

R.A. WILLIAMS CO., INC.

#### CEDARBROOK WWTP R.A. WILLIAMS OWNER

## BID PROPOSAL & ESTIMATED COST OF REPAIRS

- FOR THE COMPLETE REPAIR OF ALL WORK ON INSPECTION REPORT MADE BY MARTINS PIPE LINE CO. 1-24-06.
- TOTAL FOR ALL WORK, PARTS & LABOR-----\$148,650.00

ONE HUNDRED FOURTY EIGHT THOUSAND, SIX HUNDRED & FIFTY DOLLARS

THANK YOU

JOE MURPHY

1706 Bardstown Road Louisville, KY 40205 502-241-4509 502-241-7943 Fex





To: Susan

From: Larry

Date: 2/1/07

No. of Pages: 2

Re: Cedarbrook WWTP

Find attached one of the quotes for the sewer repairs.



## ELI CAMPBELL PLUMBING LLC

PLUMBING CONTRACTOR
773 C Westland Drive Lexington, Kentucky 40504-1002
(859) 231-0358 Fax (859) 231-0489
www.elicampbellplumbing.com

E de de de

JAN 22

R.A. Williams, Inc 153 Prosperous Place, Suite 1A Lexington, KY 40509

Jan 18, 2007

# Proposal Cedar Brook Subdivision

Eli Campbell Plumbing has been asked to submit a bid for the following work on the existing sewer lines at this subdivision.

Manhole #1 extending to manhole 8A-Remove roots from line	\$ 575.00
Manhole #2extending to Manhole#9B-Remove roots from main	575.00
Run Sewer machine thru laterals	1,278.00
Repair hole in pipe in main	1,267.00
Manhole #3 to Manhole #4-replace mains	38,987.00
Manhole #4 to manhole 9A-Replace mains	17,658.00
Manhole #5 extending to manhole #10-cut out roots	875.00
Manhole #7 extending to Manhole #8-Replace main	27,694.00
Manhole #8 extending to Manhole #9-Replace main	34,591.00
Manhole #9 extending to Manhole #9A-Replace main	38,788.00
Manhole#10A extending to Pump Station-Replace main	<u>12,878.00</u>

**Bid Price:** 

\$175,166.00

#### **Exclusions:**

- 1) rock excavation or hauled off
- 2) tap or connection fees associated with installation of any utility lines
- 3) concrete, floor repair or replacement
- 4) street cut repair and replacement

A SELECT A COMMAN

#### Eli Campbell Plumbing, LLC

page 2 of 2

5) Storm Drainage

- 6) We will not Co-insurance, we carry our own Automobile, General Liability, and Workman's Compensation.
- 7) Due to escalating cost of gasoline and chronic materials shortages now occurring in the construction industry Eli Campbell Plumbing states as a part of this bid we will resume no responsibility for any shortages by suppliers and manufacturers.
- 8) Due to extreme price increases that our now occurring in our trade, we must limit acceptance of this bid to 30 days. Written acceptance must be received by our office within this time or bid may not be honored.
- 9) Bids unless specifically noted do not include costs associated with plan approvals and work cannot begin before approved plans are given to plumbers.
- 10) Bid does not include any fees or costs associated with bid or performance bonds.

## MARTIN'S PIPELINE INSPECTION, INC.

P.O. Box 5343 Paris, KY 40362-5343

Phone (859) 987-2529 Fax (859) 987-2581

www.martins-services.com
B-Mail: mthornton@martins-services.com

September 7, 2006

Covered Bridge Utilities, Inc. Attention: Larry Smither 1706 Bardstown Road Louisville, KY 40205

Ref: Quote for pipe replacement at Cedarbrook WWTP

Latty,

I would like to begin by saying thank you for your continued interest in our company. The following is a revised quote for the pipe replacement and repairs that are needed at the Cedarbrook WWTP per the attached sheet.

- All pipe will be replaced with SDR 35 8" pipe, couplings and service tees.
- The pipe will be bedded in stone per standard pipe specifications for road and or grade.
- Bypass pumping will be used in order to keep the sewer system operational and to prevent any bypassing during the project.
- · Manholes will be rescaled and vacuum tested to insure that they are properly sealed.
- A video inspection, mandrel test and air test will be performed after all pipe has been backed filled to insure that there are no problems.
- The entire site shall be graded and reseeded, and asphalt replaced for all street cuts.

Total: \$154,797.21

Please make note that PVC pipe and stone are increasing in price and this quote is only valid for 30 days.

If you have any additional questions, please feel free to call me at 859-987-2529.

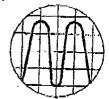
Thank you,

Mike Thornton.

CEDARBROOK WWTP					2/7/2006
Line Segment	Recommended Se	olution Estimat	ed Repair Cost	Yearly Main	ntenance
Manhole #5 - Manhole #10 1. Roots in joints from 96'-105' 2. Pipe in overall excellent condition	Yearly maintenance	\$		\$	325.00
Manhole #10A - Manhole #11 1. Manhole 10A (roots in manhole) 2. Pipe in overall excellent condition	No action needed	\$	-		•
Manhole #10A - Pump Station (95') 1. Only 1 residential lateral 2. Entire line segment has sags (length of pipe) 3. Heavy infilitration in two locations	Replace entire line	\$	6,865.00		
Mnahole #3 - Manhole #4 (307') 1. Sag in pipe from 144'-197' 2. Sag in pipe from 221'- 307'	Replace entire line	\$	29,932.50		
Manhole #4 - Manhole #9A (133') 1. Infitration @ 1.5' in joint (Light) 2. Sag in pipe from 14'-92' 3. Pipe collapsed at Manhole 9A	Replace entire line	\$	12,976.50		
Manhole #2 - Manhole #9B 1. Roots in several joints 2. Hole in top of pipe @ 153.1 3. All laterals have moderate to heavy roots 4. Pipe in overall good condition	Yearly maintenance (no infiltration apparent)	\$ .	-	\$	325.00
Manhole #1 - Manhole #8A 1. Roots in several joints 2. Pipe in overall excellent condition	Yearly Maintenance			\$	325.00
Manhole #9B - Manhole #9 1. Pipe in overall excellent condition	No action needed	\$	· -		
Manhole #8A - Manhole #8  1. Pipe in overall excellent condition	No action needed	\$	-		-
Manhole #7 - Manhole #8 (186') 1. Infiltration @ 52' 2. Sag in pipe from 135'-140'	Replace entire line	\$	12,370.86		ar en
Manhole #8 - Manhole #9 (264')  1. Sag in pipe from 61'-70' and from 210'-250'  2. Service taps in need of repair  3. Hole in pipe @ 144'	Replace entire line	\$	17,558.64		
Manhole #9 - Manhole #9A (321')  1. Broken pipe @ 317'  2. Overall condition of pipe is fair	Replace entire line	\$	21,349.71		
	•	TOTAL: _\$	101,053.21	<b>B</b>	975.00

CEDARBROOK WWTP						9/7/2006
Line Segment		Recommended	Sciution Estimat	ed Repair Cost	Yearly Ma	Intenançe
Manhole #5 - Manhole #10 1. Roots in joints from 96!-105' 2. Pipe in overall excellent condition		Yearly maintenance	\$		\$	325.00
Manhole #10A - Manhole #11  1. Manhole 10A (roets in manhole)  2. Pipe in overall excellent condition	· .	No action needed	. \$	-		
Manhole #10A - Pump Station: (95')  1. Only 1 residential lateral  2. Entire line segment has sags (length  3. Heavy infiltration in two locations	• .	Replace entire line	\$	10,925.36		
Mnahole #3 - Manhole #4: (307') 1. Sag in pipe from 144'-197' 2: Sag in pipe from 221'- 307'		Replace entire line	\$	39,010,58		
Manhole #4 - Manhole #6A (133')  1. Infiltration @ 1.5' in joint (Light)  2. Sag in pipe from 14'-92'  3. Pipe collapsed at Manhole 9A		Replace entire line	<b>\$</b>	15,295.23		
Manhole #2 - Manhole #9B  1. Roots in several joints  2. Hole in top of pipe @ 153.1  3. All laterals have moderate to be any n  4. Pipe in overall good condition	oots	Yearly maintenance (no infiltration apparen	\$		\$	325.00
Manhole #1 - Manhole #8A 1. Roots in several joints 2. Pipe in overall excellent condition		Yearly Maintenance			\$	325.00
Manhole #9B - Manhole #9 1. Pipe in overall excellent condition	. :	. No action needed	\$	-		
Manhole #8A - Manhole #8  1. Pipe in overall excellent condition		No action needed	<b>\$</b>	•		
Manhole #7 - Menhole #8 (186') 1. infiltration @ 52' 2. Sag in pipe from 135'-140'		Replace entire line	e name and address of the	21,390,49		
Manhole #8 - Manhole #9 (264')  1. Sag in pipe from 61'-70' and from 210'  2. Service taps in need of repair  3. Hole in pipe @ 144'	-250'	Replace entire line	\$	30,360.64	•	
Manhole #9 - Manhole #9A (321') 1. Broken pipe @ 317'. 2. Overall condition of pipe is fair		Replace entire fine	, <b>\$</b>	36,915.21		
			TOTAL: S	154,797.21	<b>S</b>	975.00

Quote valid for 30 days. Additional surcharge applies due to the increasing PVC pipe & material cost if after 30 days.



M&M Electric, Inc.

COMMERCIAL / INDUSTRIAL ELECTRICAL CONTRACTORS CORNER OF 9, 3RD & MOGRATH STREET - DANVILLE, KENTUCKY 40422 PHONE: 859/236-7589 FAX: 859/296-9210

4

RECEIVED

FFR 0 6 2007

R.A. WILLIAMS CO., INC.

February 5, 2007

Larry Smither Covered Bridge Utilities, Inc. 1706 Bardstown Road Louisville, KY 40205 Tei: (502) 241-4809 Fax: (502) 241-7943

Re:

Various Repairs to Sewer System

Farmdale Communities Cynthiana, Kentucky

Dear Mr. Smither:

Per your conversation with Mr. Montgomery, we are pleased to provide the following estimate for the above referenced. As you are aware, we are dependent solely on the inspection report provided by Martins Pipeline Inspection of Paris Kentucky. The estimate is as follows:

Make all repairs required as per your inspection report completed by Martins Pipeline Inspection of Paris Kentucky dated February 7, 2006 including all parts, labor and equipment Please note, this is only an estimate and may result in additional costs due to unknown conditions.

Lump Sum Estimate: 168,245.37

This quotation is valid for 15 days. After the above noted date, it is subject to changes at our discretion. Thank you for the opportunity to be of service and hope we have met all of your requests, intentions and expectations. If we have overlooked anything or misinterpreted your request, please do not hesitate to contact this office.

Respectfully.

Chris Preston
Project Manager

(1070g-multier foundate)

#### Quotation

## Covered Bridge Utilities, Inc. 1706 Bardstown Road Louisville, Kentucky 40205 (502)238-3301 Fax (502)238-3329

March 21, 2006

Mr. Ron Osborne R.A. Williams Company Inc. 153 Prosperous Place Suite 1-A Lexington, KY 40509

Re: Cedarbrook Subdivision Sewer System

Dear Mr. Osborne:

As requested, the following is a break down of the repairs, replacements and additions that need to be made in the referenced sewer system – including the treatment plant, the remote lift station and the gravity sewer mains. With this list are the current cost for each item.

It is as follows:

#### Sewage Treatment Plant

1) Remove the existing air lift sludge returns and skimmers. Furnish the necessary materials, fabricate new sludge returns, skimmers and install same.

Your price - - \$5,625.00 installed

2) One new (1) Sutorbilt Model 4M blower motor assembly with 7.5 H.P. motor housed in a fiberglass enclosure. Also furnish one (1) duplex electrical blower control panel.

We will pour a concrete pad next to the aeration tank, mount the new blower/motor assembly, move the existing blower motor assembly off of the plant and mount it on the pad and install the control panel.

Your price -- \$8,330.00 installed

3) Purchase one (1) new Zoeller Model N267-F effluent pump. It will be stored in the building and used when the existing pump goes out. The treatment plant only has piping for one effluent pump.

Your price - - \$434.00

#### **Remote Lift Station**

1) This is a duplex station with only one pump, and that pump is not the one the station was designed to have. This pump should be removed and two (2) new Myers Model 3WHV30M4-21 non-clog submersible pumps should be installed with new guide rail assemblies. Note: This is the make and model pump that the station originally had.

Also install one (1) new duplex 3 H.P. 230 volt 1 phase pump control panel.

Your price - - \$15,022.00 installed

#### **Gravity Sewer Mains**

1) The gravity sewer mains in the Cedarbrook subdivision are in need of extensive repair to stop the I/I problems that exist. As you are aware, a video survey of all the gravity sewer mains is now complete and with the report supplied by Martin Pipeline Inspection Company I have been able to obtain an estimate to repair all areas that are identified as being sources of I/I.

Your price -- \$111,053.00

If you have questions or need additional information please let me know.

Sincerely,

Lawrence W. Smither

R98:7704 021797:1:GWM.141249.lex Highland Deed

#### QUITCLAIM DEED

THIS QUITCLAIM DEED, made and entered into this the 2104 day of Fchravey, 1997, by and between HIGHLAND DEVELOPMENT CORPORATION, a Kentucky corporation, whose address is P.O. Box 200, Paris, Kentucky 40362-0200, party of the first part, and R. A. WILLIAMS COMPANY, INC., a Kentucky corporation of 153 Prosperous Place, Suite 1-A, Lexington, Kentucky 40509, party of the second part;

#### WITNESSETH:

That party of the first part, for and in consideration of \$1.00, receipt of which is hereby acknowledged, do hereby remise, release and forever quitclaim unto party of the second part, its successors and assigns forever, all of its right, title, interest or claim in and to the following described property, located in the Harrison County, Kentucky, to-wit:

Being all of Lot 1, Block C, Unit 1 of Cedarbrook Subdivision as shown by plat of record in Plat Book \_\_\_\_\_, Slide \_\_\_\_\_\_, Harrison County Clerk's Office and to which plat reference is hereby made for a more particular description.

Being a part of the same property conveyed to First Party from Julian Varner and Betty Varner, his wife, by deed dated June 22, 1973 of record in Deed Book 140, Page 109, Harrison County Clerk's Office.

 $_{\mbox{\scriptsize TO HAVE}}$  AND TO HOLD, the same unto party of the second part, its successors and assigns forever.

IN WITNESS OF ALL WHEREOF, the said party of the first part has hereunto set its hand on this the day and year first above written.

HIGHLAND DEVELOPMENT CORPORATION

By: Alpry 2. White

R98:7704 021797;1:GWM.141249 lex Highland Deed STATE OF KENTUCKY ) SCT. COUNTY OF <u>Bourbon</u>) The foregoing instrument was acknowledged before me this 1/2 day of July, 1997 by

New Highland

Development Corporation, a Kentucky corporation, on behalf of the corporation. My Commission Expires: May 16, 2000 NOTARY PUBLIC, STATE AT LARGE, KY CERTIFICATION OF CONSIDERATION Being first duly sworn, the undersigned Grantor and Grantee, state that the consideration set forth in the foregoing deed is true and correct and is the full consideration paid for the subject property. GRANTOR: HIGHLAND DEVELOPMENT CORPORATION By: Stong 2. Huble Its: Vice President GRANTEE: R. A. WILLIAMS COMPANY, INC. STATE OF KENTUCKY SCT: COUNTY OF FAYETTE The foregoing Certificate of Consideration was subscribed and sworn to before me this 212 day of foregoing the subscribed day of foregoing the figure of Righland Development Corporation, a Kentucky corporation, on

behalf of the corporation. My Commission Expires: May 26, 2000

Sittle G. Edward

NOTARY PUBLIC, STATE AT LARGE, KY

R98:7704
STATE OF KENTUCKY )
COUNTY OF FAYETTE )
The foregoing Certificate of Consideration was subscribed and sworn to before me this 2 day of February 1997 by Kong Tong Tong Tong Tong Tong Tong Tong T
My Commission Expires: 7 [2 9]  NOTERY PUBLIC, STATE OF LARGE, KY (NOTERY PUBLIC)
This Instrument Prepared By: STITES & HARBISON 2300 Lexington Financial Center 250 West Main Street Lexington, Kentucky 40507  By:
State of Kentucky County of Harrison  I, Ralph E. Coppage, Clerk of the Harrison County Court do hereby certify that the foregoing Deed was on the 9th day of May 1997 at 4:20 P.M.; lodged in my office certified as above for record, whereupon, the same and this certificate are now duly recorded.
Given under my hand this the 13th day of May 1997. Ralph E Copyag Clerk
Tax Collected: .50 Luda Barnes D.C.