!"

"

$%&"'&()*+",+'")+(-,..,-)/+"/0"-%&"1234"(5(-&6"0/7"1,77)&-"$896,+":)''.&";<%//."=,("'&>&./?&'"/8-"/0"
</+<&7+"0/7"-%&"%&,.-%"/0"(-8'&+-(",+'"(-,00@""A/7-.,+'"A89.)<";<%//.("7&</*+)B&'"-%,-"-%&"/8-'//7",)7",-"
-%&"(<%//."=,(")6?,<-&'"95"-7,00)<C7&.,-&'",)7"?/..8-)/+"07/6"DCEF",+'"?/-&+-),..5"95",7&,")+'8(-75@""
A7&.)6)+,75",)7"6/+)-/7)+*"</+'8<-&'")+":,7<%",+'"3?7)."/0"#G!H"</+0)76&'"-%&"+&&'"0/7",+"1234"
(5(-&6"=)-%"0).-7,-)/+"0/7"?,7-)<.&(",+'"*,(&("-/"?7&>&+-"(8(-,)+&'"',).5"&I?/(87&@""J&+/>,-)/+"/0"-%&"
(<%//."98).')+*",+'")+(-,..,-)/+"/0"-%&"1234"(5(-&6"=,("</6?.&-&'")+"38*8(-@""$/"&>,.8,-&"-%&"

"

D+<7&,()+*"?89.)<"%&,.-%",--&+-)/+"-/"-7,00)<C7&.,-&'",)7"?/..8-)/+"R$J3AS"</6?&..&'"A/7-.,+'"A89.)<"
;<%//.("RAA;S"-/"'&()*+",+'")+(-,..","%&,-)+*F">&+-).,-)/+F",+'",)7"</+')-)/+)+*"R1234"S"(5(-&6"=)-%"
0).-7,-)/+"0/7"?,7-)<.&(",+'"*,(&("'87)+*"-%&"6/'&7+)B,-)/+"/0"1,77)&-"$896,+":)''.&";<%//.@""$%&"
?7&'/6)+,+-"</+<&7+"=,("-%&"7&'8<-)/+"/0"',5C-/C',5"&I?/(87&("-/"$J3A"-%,-"%,>&"9&&+",((/<),-&'"
=)-%"7&'8<&'".8+*"*7/=-%")+"<%).'7&+F",+'")+<7&,(&'"7)(L"0/7"-%&"'&>&./?6&+-"R/+(&-S"/0",(-%6,",+'"
&I,<&79,-)/+"R-7)**&7)+*S"/0",(-%6,",--,<L(@""$%&"</66)-6&+-"-/")+(-,.."-%&"1234"(5(-&6"95"AA;",.(/"
,<L+/=.&'*&'"&6&7*)+*"%&,.-%"7&(&,7<%"</+<&7+("0/7")+')>)'8,."</6?/+&+-("/0"$J3AF"(?&<)0)<,..5"')&(&."
?,7-)<8.,-&"6,--&7@""VI-&+()>&",)7"6/+)-/7)+*"(-8')&("=&7&"</+'8<-&'"95"(<)&+-)(-("07/6"A/7-.,+'";-,-&"
W+)>&7()-5"-/"<%,7,<-&7)B&"-%&"/8-'///",)7"M8,.)-5",+'"</+0)76"-%&",'&M8,<5"/0"-%&"?&70/76,+<&"/0"-%&"
1234"0).-7,-)/+"(5(-&6"-/"?7/>)'&"<.&,+",)7"-/"<.,((7///6(",+'")+'///7"(?,<&(",-"-%&"(<%//.@""3)7"M8,.)-5"
6&,(87&6&+-("=&7&"0)7(-"6,'&")+"-%&"3?7)."#G!HF",+'"=&7&"</+'8<-&'",*,)+")+"-%&";&?-&69&7",+'"
K<-/9&7"0/../=)+*")+(-,..,-)/+"/0"-%&"1234"(5(-&6",+'"98).')+*"/<<8?,+<5@""3+/-%&7"<5<.&"/0"
6&,(87&6&+-("=,("6,'&")+"3?7).".",+'":,5"/0"#G!N"-/"&>,.8,-&"/8-'///7C)+'///7"</+')-)/+(",0-&7"X"
6/+-%("/0",)7"%,+'.)+*"(5(-&6"/?&7,-)/+@"

$%&"A;W"-&,6"</+'8<-&'","6/+)-/7)+*"/+","</6?7&%&+()>&"(&-"/0")+')>)'8,."?/..8-,+-("-%,-"</6?7)(&"
$J3A@""$%&"(&-"/0"?/..8-,+-(")+<.8'&"-%&"Y<7)-&7),"?/..8-,+-(Z"<,79/+"6/+/I)'&"R4KSF"+)-7/*&+"')/I)'&"
RTK#SF"?,7-)<8.,-&"6,--&7"RA:!G",+'"A:#ES"=%/(&"%&,.-%"&00&<-(",7&"=)'&.5"7&</*+)B&'",+'"0/7"=%)<%"
0&'&7,."7&*8.,-/75"(-,+',7'("&I)(-"RT33[;"$,9.&S@""W.-7,0)+&"?,7-)<.&("WPASF"9.,<L"<,79/+"R\4SF",+'"
>/.,-).&"/7*,+)<"</6?/8+'("R2K4(S",7&"</+(-)-8&+-("/0"')&(&."&I%,8(-",+'"-%&(&"0/76("/0"A:"=&7&",.(/"
6/+)-/7&'@"";?&<)0)<",)7"M8,.)-5"(-,+',7'("'/"+/-"&I)(-"0/7"-%&(&"')&(&."?/..8-,+-(F"%/=&>&7F"&>)'&+<&"
07/6",+)6,."-/I)</./*5"7&(&,7<%",+'"/+*/)+*"&?)'&6)./*)<"(-8')&("(8??/7-"</+<&7+"0/7"<%).'7&+",("
?,7-)<8.,7.5"(8(<&?-)9.&"-/"-%&",'>&7(&"7&(?)7,-/75"&00&<-("/0".+*C-&76"&I?/(87&"-/"')&(&."?,7-)<8.,-&"
?/..8-)/+"R1V0"#G!G]"1V0"#G!Q]"^8,7+)&7)",+'"\,.6&("#G!US@"

$%)("7&?/7-"?7/>)'&(",+"/?)+)/+"/+"-%&"%&,.-%"7)(L("?/(&'"-/"(-8'&+-(",+'"(-,00",-"1,77)&-"$896,+"
:)''.&";<%//."8()+*"-%&"6&,(87&'"&I?/(87&(")+"/8-'///",+'")+'///",)7@""$%)(",+,.5()("0/../=(","=&)*%-C
/0C&>)'&+<&",??7/,<%"-%,-",??.)&("0&'&7,."%&,.-%C9,(&'"(-,+',7'("=%&+",>,).,9.&F",+'",??.)&("
)+0/76,-)/+"07/6"?89.)(%&'"(-8')&("0/7"?/..8-,+-("=%)<%".,<L"7&*8.,-/75"*8)'&.)+&(@"

4,79/+"6/+/I)'&"R4KS")(",-/I)<",(?%5I),+-"*,("-%,-")("%,B,7'/8("9&<,8(&"/0")-("(?&<)0)<",9).)-5"-/"9)+''-/"
%&6/*./9)+",+'"-/"7&'8<&"-%&",9).)-5"/0"-%&"9.//''-/"'&.)>&7"/I5*&+"-/")-((8&(@""3(","</6?/+&+-"/0"
6/-/7">&%)<.&"&6)(()/+(F"4K"?&+&-7,-&("-/")+'///7"(?,<&("=)-%"%)*%"&00)<)&+<5"9&<,8(&"-%)("*,("%,(">&75"
./="<%&6)<,."7&,<-)>)-5@""$%&(&"(,6&"?%5()<,.",+'"<%&6)<,."?7/?&7-)&(".)6)-"&+*)+&&7)+*",9).)-)&("-/"
&</+/6)<,..5"7&6/>&"4K"*,("=%&+"?7&(&+-")+"-%&")+-,L&",)7"/0"98).')+*">&+-).,-)/+"(5(-&6(@""$/"?7/-&<-"

Q"

"

0/7"K7&*/+",+'"A/7-.,+'"%,>&"(-&,').5"'&<.)+&'"/>&7"-%&"?,(-"E"'&<,'&(",+'"<877&+-.5"-%&"(&</+'"
%)*%&(-"HC%/87",>&7,*&"/<<877)+*")+","5&,7")(".&((-%,+"#"??6"
R%--?(0_===@/7&*/+@*/>_'&M_P).-&7`/<(_#G!X,M,++8,.7&?/7-@?'0"S@""3.-%/8*%"4K"07/6"6/-/7">&%)<.&"
&6)(()/+(" ')(?&7(&("M8)<L.5"8+'&7"6/(-"</+')-)/+(F"?//7"-7,00)<"0./=",+'"</+*&(-)/+"<,+".&,'"-/"&.&>,-&'"
&I?/(87&("0/7"6/-/7">&%)<.&"/<<8?,+-(",+'"?&7(/+(")+"<./(&"?7/I)6)-5"-/"%)*%=,5(@""4K"</+<&+-7,-)/+("
6&,(87&'",-"6)<7/(<,.&"()-&("%,>&"'&<.)+&'")+"-%&"(,6&"?7/?/7-)/+(",("</+<&+-7,-)/+("7&</7'&'",-"
6/+)-/7("7&?7&(&+-)+*".,7*&7"879,+"7&*)/+(@""369)&+-"6/+)-/7)+*",-"+&,7C7/,'"./<,-)/+(")+')<,-&"-%,-"
-%&"0&'&7,."(-,+',7'(",7&"+/-"&I<&&'&'F",+'"-%)("?7/-&<-)/+")(",--7)98-&'"-/"*7&,-.5")6?7/>&'"</+-7/."/0"
6/-/7">&%)<.&"&6)(()/+("R&@*@F"<.&,+"987+)+*"08&.(F")6?7/>&'".)*%-C'8-5"&+*)+&"'&()*+F",+'"<,-,.5-)<"
</+>&7-/7(S@""" :&,(87&6&+-("/0",69)&+-"4K",-"-%&"K7&*/+"`V["DCE"$8,.,-)+"+&,7C7/,'=,5",)7"6/+)-/7)+*"
(-,-)/+"%,>&"+/-"7&</7'&'"&I<&&',+<&("/0"0&'&7,."(-,+',7'("'87)+*"#G!E"-/"#G!X"R6,I)686"HC%/87"
,>&7,*&("a"!@U"??6S@"""""

$%&"%&,.-%"7)(L("/0"4K"%,>&"9&&+"./+*"7&</*+)B&'",+'"4K")("/+&"/0"-%&"/7)*)+,."()I"Y<7)-&7),Z",)7"?/..8-,+-("
'&0)+&'")+"-%&"4.&,+"3)7"3<-"/0"!NXG@""$%&"<877&+-"T,-)/+,."369)&+-"3)7"[8,.)-5";-,+',7'"RT33[;S"0/7"
<,79/+"6/+/I)'&")("QE"??6"/>&7","!C%/87",>&7,*)+*"-)6&",+'"N"??6"/>&7",+"HC%/87",>&7,*)+*"-)6&"
R%--?(0_===@&?,@*/>_<7)-&7),C,)7C?/..8-,+-(_+,,M(C-,9.&"S@""$%&(&".&>&.(",7&"9,(&'"/+",+"&I-&+()>&"
&>)'&+<&"9,(&"07/6"&?)'&6)/./*)<"(-8')&(",+'"</+-7/..&'"&I?/(87&"(-8')&("/+"%86,+"(89h&<-("
R%--?(0_<0?89@&?,@*/>_+<&,_7)(L_7&</7')(?.,5@<06c'&)'a#!HdHde4P0`aXHXXdN!!e4P$KfVTaH!HHUQdN"
S@""$%&"-=/",>&7,*)+*"-)6&("?7&>&+-"9.//'"<,79/I5%&6/*./9)+".&>&.("07/6"7&,<%)+*"#gF"-%&".&>&.",-"
=%)<%"<%&(-"?,)+"R,+*)+,"?&<-/7)(S")("-7)**&7&'")+"&I&7<)()+*",'8.-("=)-%"</7/+,75",7-&75"')(&,(&F",+'"-/"
?7/-&<-"?7&*+,+-"=/6&+",+'"-%&"'&>&./?)+*"0&-8("07/6"%5?/I)<"(-7&((",+'"./="9)7-%"=&)*%-"/8-</6&(@""

U"

"

)+-&7)/7"(?,<&"/0"-%&"(<%//.F"-%&(&".&>&.(",7&"9&./="-%&"T33[;"/0"N"??6",>&7,*&'"/>&7"H"%/87(@""
:&,(87&6&+-("/0"4K")+"-%&"7&-87+",)7F"7&?7&(&+-)+*"-%&"6)I&'",)7"/0"-%&"&+-)7&")+-&7)/7"/0"-%&"(<%//.F"
,>&7,*&'"G@GX"RXQ@N"??9S@""$%)("(6,.."')00&7&+<&")+"-%&",)7"</+<&+-7,-)/+")("+/-",??7&<),9.&F",+'")("

-%&"0&'&7,."(-,+',7''/0"!GG"??9@"";)6).,7.5"-%&",++8,."TK#",>&7,*&"0/7"-%&"+&)*%9/7%//''",+''+&,7C
7/,'=,5"6/+)-/7)+*"()-&("%,("</+()(-&+-.5"-7,<L&''"+&,7"!G"??9",+''!Q"??9F"7&(?&<-)>&.5]",.(/"=&.."9&./="
-%&"0&'&7,."(-,+',7''/0"EQ"??9@"

$%&"')(-7)98-)/+"/0"(<%//.C',5",>&7,*&"TK#"</+<&+-7,-)/+("'87)+*"-%&"P,..",+'';?7)+*"6/+)-/7)+*"?&7)/'("
)("?7&(&+-&'")+"P)*87&"#@""D+"-%&"P,..F"/8-'//7"TK#".&>&.(",>&7,*&''!Q@G"??9"/>&7"-%&"N"3:"-/"U"A:"(<%//."
',5@""$%&"%)*%&(-"(<%//.C',5",>&7,*&"=,("dX@d"??9@""NE"?&7<&+-"/0"-%&"',).5",>&7,*&("=&7&"9&./="QG"
??9F",+''XE"?&7<&+-"=&7&"9&./="#G"??9@""$%&"6&,+"(8??.5",)7",>&7,*&"=,("G@HN"??9F")+')<,-)+*",%)*%"
.&>&."/0"7&6/>,."95"-%&",)7"%,+'.)+*"(5(-&6@""$%&"6&,+"TK#".&>&.(")+"7&-87+",)7"=,("d@N#"??9@"`&(?)-&"
-%&",??,7&+-")+0).-7,-)/+"/0"/8-'//7"TK#"-%7/8*%"-%&"98).')+*"&+>&./?&F")+'//7"TK#".&>&.(",7&"
,??7/I)6,-&.5"/+&C%,.0"/0"-%&".&>&.("/9(&7>&'")+"/8-'//7",)7@"

D+"-%&";?7)+*"6/+)-/7)+*"?&7)/'F"-%&"(<%//.C',5",>&7,*&"/0"X@Q"??9"=,("(89(-,+-),..5"./=&7"-%,+"
</+<&+-7,-)/+("/9(&7>&')+"-%&"P,..@"";8??.5",)7"</+<&+-7,-)/+",>&7,*&''#@H"??9F",*,)+")+')<,-)+*"
(89(-,+-),."7&6/>,."95"-%&"1234"(5(-&6@""J&-87+",)7"TK#"

"

&6)(()/+("07/ 6"ÐCEF"98-"-%&5",7&"

X"

"

H"

D+"(8 6 6 ,75F"-%&"/8-' / /7"</+<&+-7,-)/+("/0"A : !G",+'"A : #E",-"1$: ;",7&"9&./="0&'&7,."(-,+',7'(

(<%/ / .(" , 7&"+ , -87 , ..5">&+-). , -& ' " , + ' "-%&"?&+&-7 , -)/ +"/ 0"/ 8- ' / / 7"A : #@E" , + ' "TK# "-/ "-%&"(<%/ / .(h")+ ' / / 7" , 7& , (")("%)*%"R3 6 , -/ "&-" , .@"#G ! USF" , + ' " 6 & , +("-% , -"(<%/ / ."<%). ' 7&+" , 7&"&I ? / (& ' "-/ "&.&> , -& ' ".&>&.(" -%7 / 8*% / 8-"-%&"(<%/ / ." ' , 5F")+ ' / / 7(" , + ' "/ 8- ' / / 7(@""D+"-%&"\ , 7<&. / + , "<. , ((7/ / 6 (F"-%&" 6 & , +"TK# ".&>&."= , (" ! E@H"??9"R ! ! @NC ! H@N"??9"

=,("H#N"+*_6 Q F"=)-%",+")+-&7M8,7-).&"7,+*&"/0"#NG"-/"!!#X"+*_6 Q @""$%8(F"/8-'//7".&>&.(")+"9/-%"(&,(/+("
&I<&&'&''-%&"K7&*/+"3\4@""D+"9/-%"6/+)-/7)+*"(&,(/+(F"-%&"1234"(5(-&6''&6/+(-7,-&''.,7*&"7&6/>,."
&00)<)&+<)&("0/7"\4]",??7/I)6,-&.5"NEg")+"-%&"P,..",+''Hdg")+"-%&";?7)+*@""2&75"-)*%-''(-7)98-)/+("/0"
>,.8&("=&7&"/9(&7>&'')+"-%&";?7)+*"0/7"(8??.5",+''7&-87+",)7F"&>)'&+<&"/0">&75"*//''1234"(5(-&6"
?&70/76,+<&@"

D+"-%&";?7)+*"6/+)-/7)+*F"\4"=,("6&,(87&''=)-%","%,+'%&.'',&-%&./6&-&7")+"-%&"?,7L",+''/-%&7"/8-'//7"
,7&,("(877/8+')+*"-%&"(<%//.F''87)+*".8+<%-)6&",+'',0-&7+//+"%/87(@"":&'),+".&>&.("=&7&"</6?,7,9.&"
-/"-%/(&"6&,(87&'',-"-%&"1234")+-,L&F"7,+*)+*"07/6"UEX"-/"X#E"+*_6 Q @""$%&"6&'),+"+&)*%9/7%//''
9,<L*7/8+''.&>&.F"6&,(87&''(&>&7,."9./<L("-/"-%&"&,(-"/0"-%&"(<%//.F"=,("QQQ"+*_6 Q @""

$%&"/8-'//7"</+<&+-7,-)/+("/0"\4"

"

!#"

"

`)(6)((,."/+"P.)+-"3>&"	30-&7+//+"Q0QGCU0!E"A:"	dFHGG"	dFdGG"
T&)*%9/7%//'"	30-&7+//+"U0!E"e".,-&7"	CCC"	EFUGG"

"

&M8)?6&+-F",+'"<.&,+)+*"?7/'8<-(@""D+"0,<-F"-%&"</+<&+-7,-)/+("/0"6,+5"2K4(",7&"%)*%&7")+")+'//7"
7&()'&+-),."(&--)+*(",+'"?89.)<"98).')+*(F"-%,+"/8-'//7("RW@;@"VA3"$&,6";-8'5F"!NHES@""$%&"%&,.-%"&00&<-("
,((/<),-&'"=)-%"&I?/(87&"-/"2K4(")+<.8'&"&5&",+'"8??&7",)7=,5")77)-,-)/+F",(-%6,",+'",..&7*)<"
7&(?)7,-/75"(56?-/6(F"%&,',<%&(F"')BB)+&((F",+'"+,8(&,F"6&6/75")6?,)76&+-F"',6,*&"-/"-%&".)>&7F"
L)'+&5",+'"<&+-7,."+&7>/8("(5(-&6F",+'"0/7"<&7-,)+"2K4(F"<,+<&7"RD+'//7"3)7"[8,.)-5";<)&+-)0)<"P)+')+*("
J&(/87<&"\,+LF"%--?(0),M(<)&+<&@.9.@*/> >/<C(&+(/75"S@""$%&"<%,7</,."9&')"0).-&7"9,+L")+"-%&"1234"
(5(-&6",-"1$:;")("'&()*+&'"-/"7&6/>&"97/,'"<.,((&("/0"2K4("07/6"/8-'//7",)7@""$%&7&",7&"%8+'7&'("/0"
/7*,+)<"</6?/8+'(F"-%&7&0/7&","7&'8<&'"(&-"/0"2K4("=)-%"7&.&>,+<&"-/"$J3A"/7"%)*%"-/I)<"?/-&+-),."
=&7&"(&.&<-&'"0/7"6/+)-/7)+*"95"-%&"A;W"-&,6F",+'"=&7&"6/+)-/7&'")+"-%&"/8-'//7",)7F",+'"-%&"(8??.5"
,+'"7&-87+",)7"(-7&,6("/0"-%&"1234"(5(-&6@"

4877&+-.5F"+/"0&'&7,."(-,+',7'("%,>&"9&&+"(&-"0/7"2K4(F",.-%/8*%"*8)'&.)+&(",+'"7&</6 6&+',-)/+("%,>&"
9&&+"(&-"95">,7)/8("?7/0&(()/+,."/7*,+)B,-)/+("R34^D1F"%--?(0_===@,<*)%@/7*_-.>C9&)C*8)'&.)+&(_-.>C
<%&6)<,.C(89(-,+<&(C)+-7/'8<-)/+"S@""$%&"&>)'&+<&"0/7"-/I)<)-5"0/7"2K4("-%,-",7&"</6 6/+.5"?7&(&+-")+"
$J3A"%,("9&&+"7&>)&=&'"95"-%&"3)7"$/I)<(";<)&+<&"3'>)(/75"4/6 6)--&&"R3$;34$"/0"-%&"K7&*/+"`V[F,+'"
-%)(",'>)(/75"9/'5"%,("7&</6 6&+'&'"369)&+-"\&+<%6,7L"4/+<&+-7,-)/+("R3\4(S"0/7"(?&<)0)<"<%&6)<,."
</6?/8+'("-%,-"=&7&",'/?-&'"95"-%&"V+>)7/+6&+-,."[8,.)-5"4/66)(()/+"/0"-%&";-,-&"/0"K7&*/+")+"#G!X"
R%--?(0_===@/7&*/+@*/>_'&M_,M_,)7C-/I)<(_A,*&(_'&0,8.-@,(?I"S@""$%&"3\4(",7&"7&>)&=&'"&>&75"E"5&,7("
,+'",7&"9,(&'"/+"-%&"9&(-",>,).,9.&"(<)&+-)0)<"&>)'&+<&"-/"'&7)>&",+"&I<&(("%&,.-%"&00&<-("7)(L"R<,+<&7F"
9)7-%"'&0&<-F"/7*,+"',6,*&S"/0"!C)+C!"6)..)/+"07/6"</+-)+8/8(")+%,.,-)/+"&I?/(87&",<7/((",".)0&-)6&@""$%)("
)("-%&",''')-)/+,."/7"&I-7,"7)(L"/0"'&>&./?)+*"<,+<&7"'8&"-/"&I?/(87&"/>&7"-%&"XGC5&,7".)0&"/0",+")+')>)'8,.@""
$%&"3\4(")+<.8'&"8+<&7-,)+-5"0,<-/7("-/"?7/-&<-"(&+()-)>&"(89*7/8?(@""$%8(F"-%&"3\4(",7&"%&,.-%C9,(&'"
,+'"?7/>)'&","8(&08."?/)+-"/0"7&0&7&+<&"0/7"&>,.8,-)+*"?/?8.,-)/+"%&,.-%"7)(L(F"98-")-")(")+</77&<-"-/",??.5"
-%&"3\4("-/"&(-)6,-&"-%&"?7/9,9).)-5"-%,-",+")+')>)'8,."=).."&I?&7)&+<&",+",'>&7(&"%&,.-%"&00&<-@"

j&>&.("/0"2K4(")+"-%&";?7)+*"6/+)-/7)+*"?&7)/'"7&?7&(&+-"-%&"-5?)<,."/<<8?,+<5"</+')-)/+("/0"-%&"(<%//."
=)-%/8-"-%&")+0.8&+<&"/0"</+(-78<-)/+",<-)>)-)&(",+'"/00C*,((()+*"/0"+&="98).')+*"6,-&7),.(@""K8-'//7",)7"
6&,(87&6&+-("/0"-%&(&"2K4(",-"1$:;"=&7&".&(("-%,+"</+<&+-7,-)/+("7&?/7-&'"95"`V["0/7"A/7-.,+'"
+&)*%9/7%//'"6/+)-/7)+*"(-,-)/+("RP)*87&("NC!!S@"W()+*"6&,(87&6&+-("/0"2K4(")+"-%&"7&-87+",)7"-/"
7&?7&(&+-"-%&")+'//7"&I?/(87&"/0"(-8'&+-(")+"<.,((7//6(F"&,<%"/0"-%&(&"2K4("=&7&"=&.."9&./="369)&+-"
\&+<%6,7L"4/+<&+-7,-)/+(@"

4%&6)<,."	A/7-.,+'"\,<L*7/8+'"	K7&*/+"`V["3\4"	K8-'//7"3)7"	J&-87+"3)7"
	µ*_6Q"	µ*_6Q"	µ*_6Q"	µ*_6Q"
\&+B&+&"	G@EN"	G@!Q"	G@!G"	G@GG"
$/.8&+&"	!@!#"	EGGG"	G@U!"	G@!H"

6CF"?Cn5.&+&"

"

D

!E"

"

"

"

34^D1@"DEFGH:!)I6,($7,"$.J"36&7)<,+"4/+0&7&+<&"/0"^/>&7+6&+-,."D+'8(-7),."15*)&+)(-(F"k,(%)+*-/+F"
`@4@""%--?(0__===@,<*)%@/7*_-.>C9&)C*8)'&.)+&(_-.>C<%&6)<,.C(89(-,+<&(C)+-7/'8<-)/+"

!d"

"

1V"J&>)&="A,+&."/+"W.-7,0)+&"A,7-)<8.,-&(@"T"($&.#'"(,"%)#L$)L$'7#L)$00$+#.)10)'/O,$"#)67#&'0,"$)

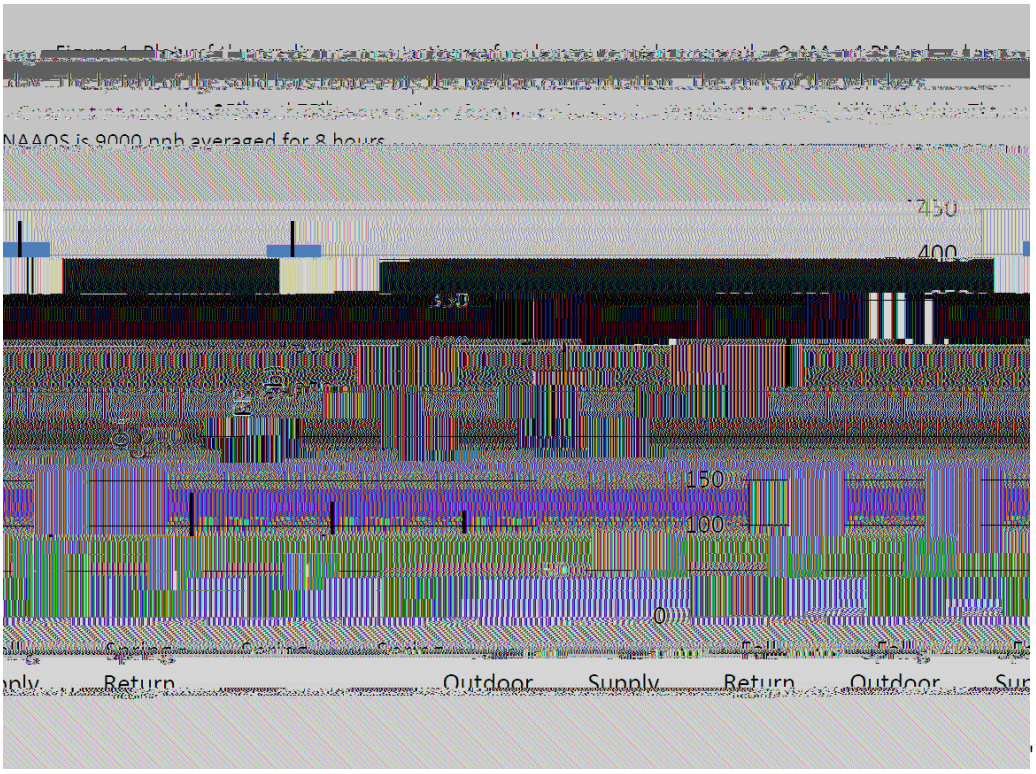
"

W@;@"VA3@"

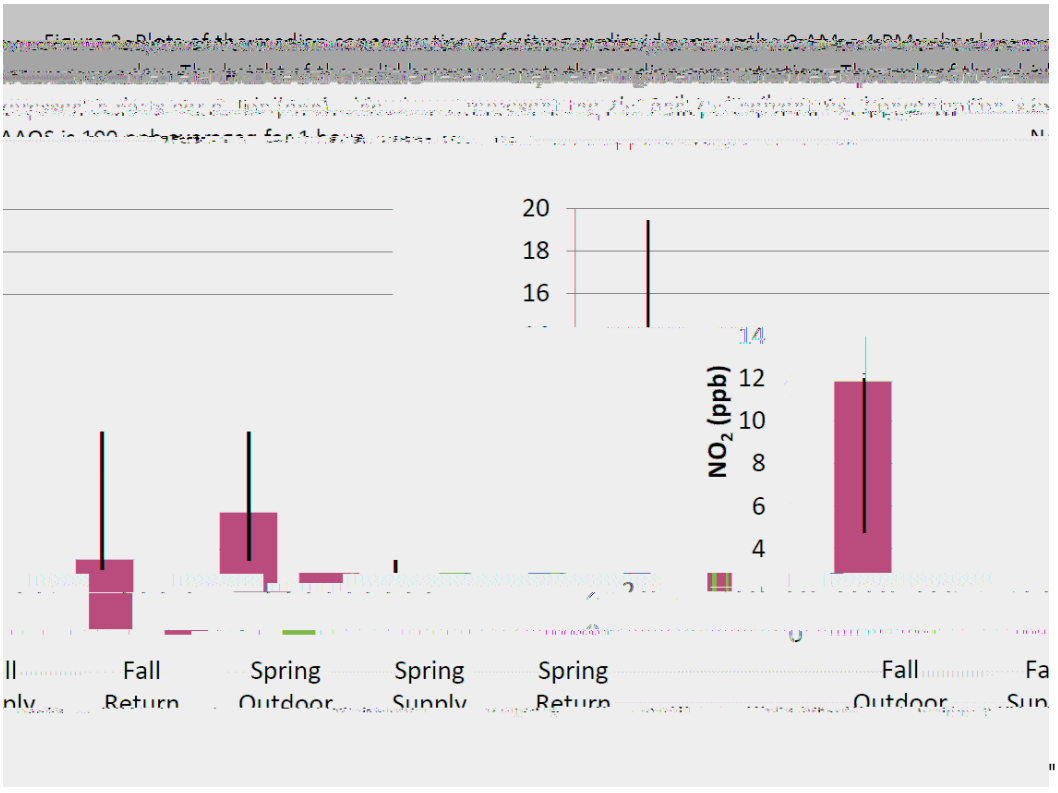
!H"

"

"


NAAQS is 9000 ppb averaged for 8 hours
450
400
150
100
0
Return
Outdoor
Supply
Return
Outdoor

"

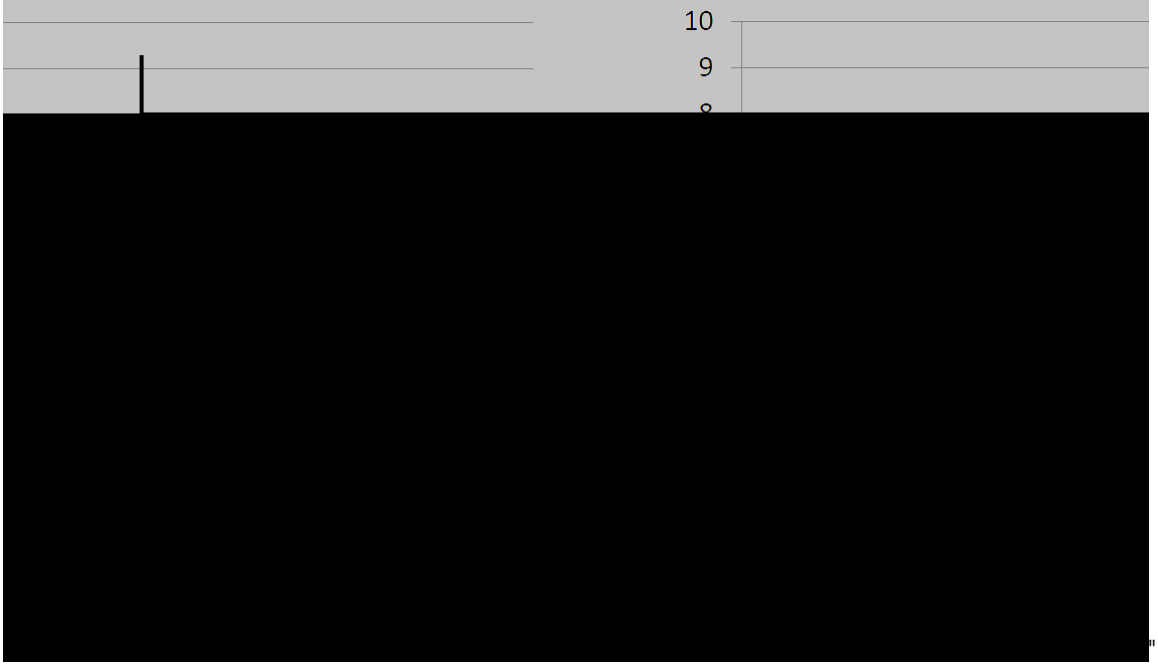

20
18
16
14
12
10
8
6
4
NO_2 (ppb)
Fall
Return
Spring
Outdoor
Spring
Supply
Spring
Return
Fall
Outdoor

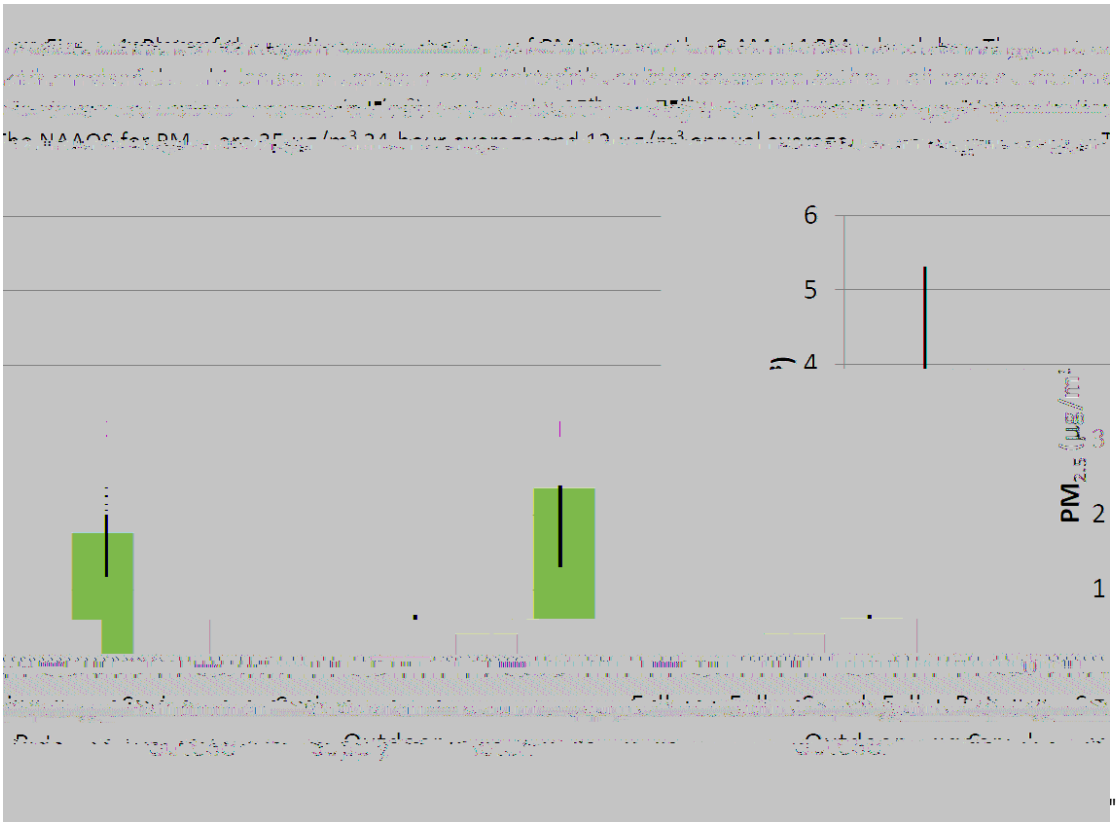
"

!N"

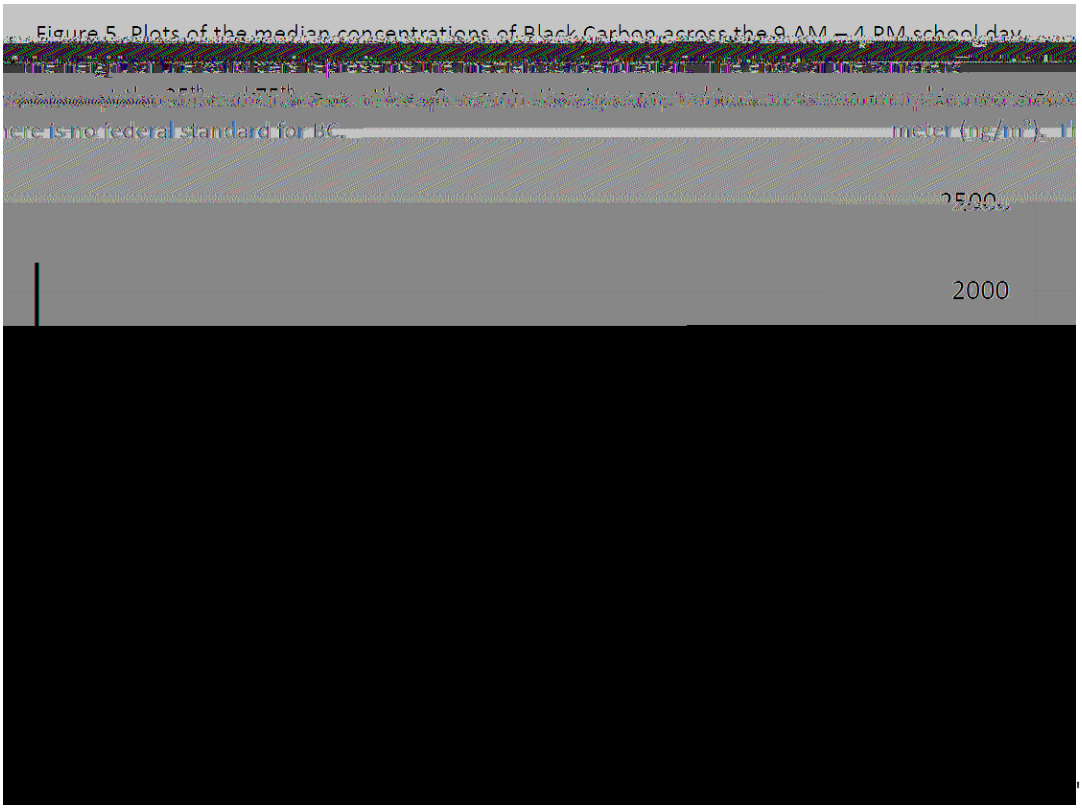
"

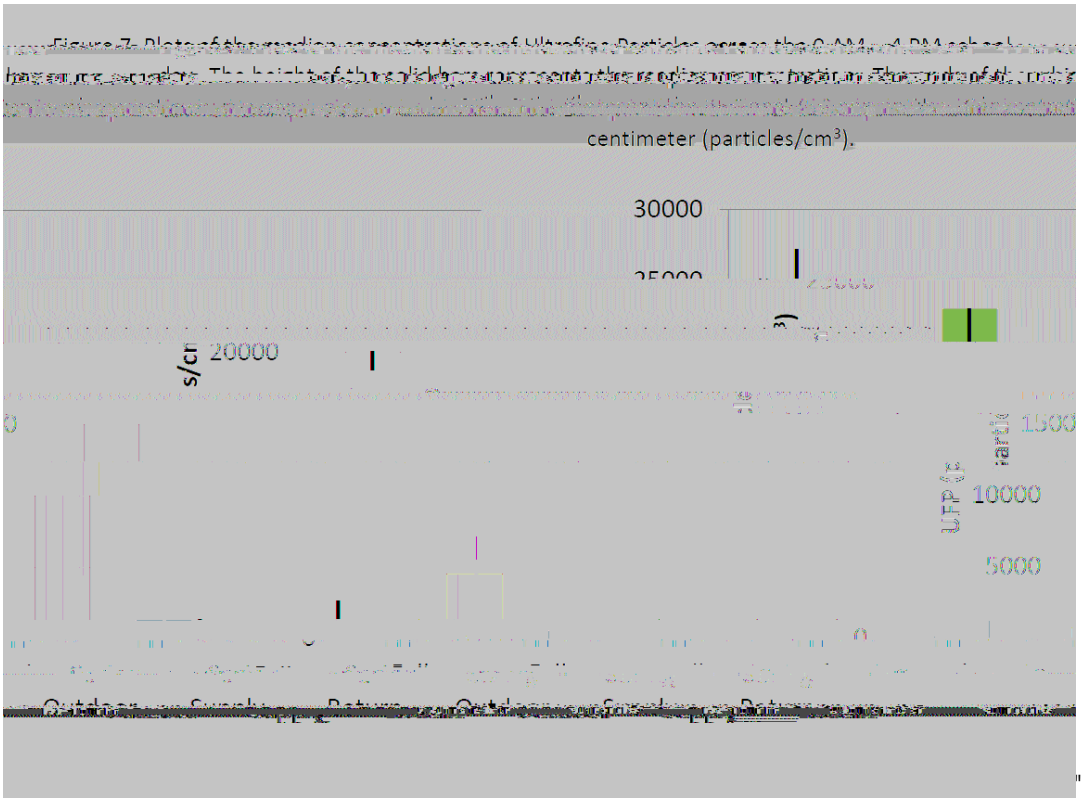
Figure 3. Plots of the median concentrations of PM_{10} across the 9 AM – 4 PM school day. The

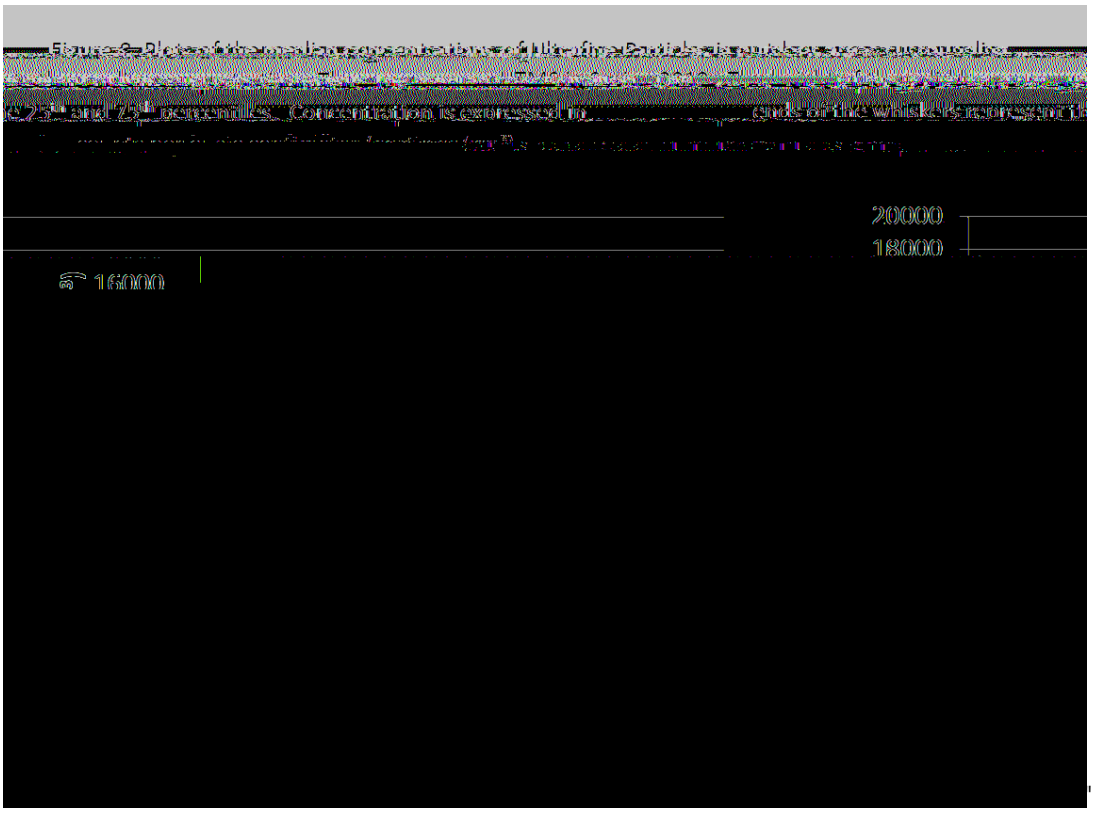




#G"

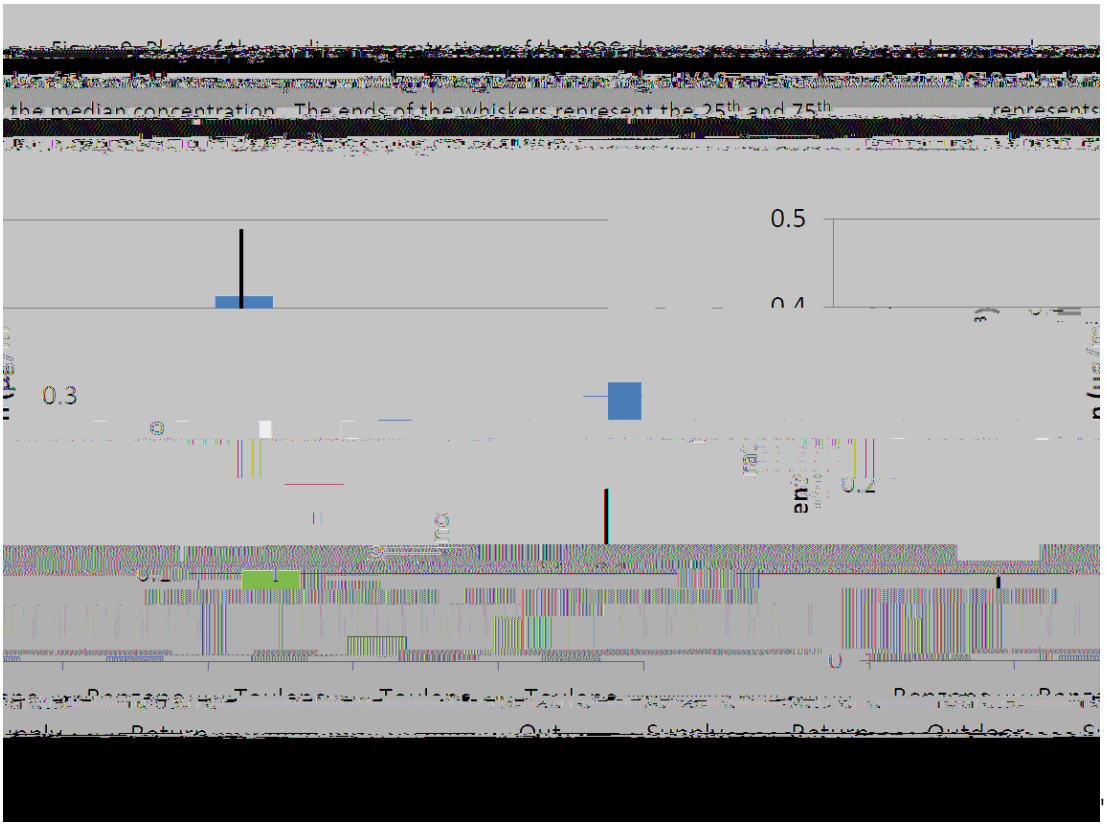

2500
2000


centimeter (particles/cm³).
30000
20000
10000
5000


20000
18000
16000

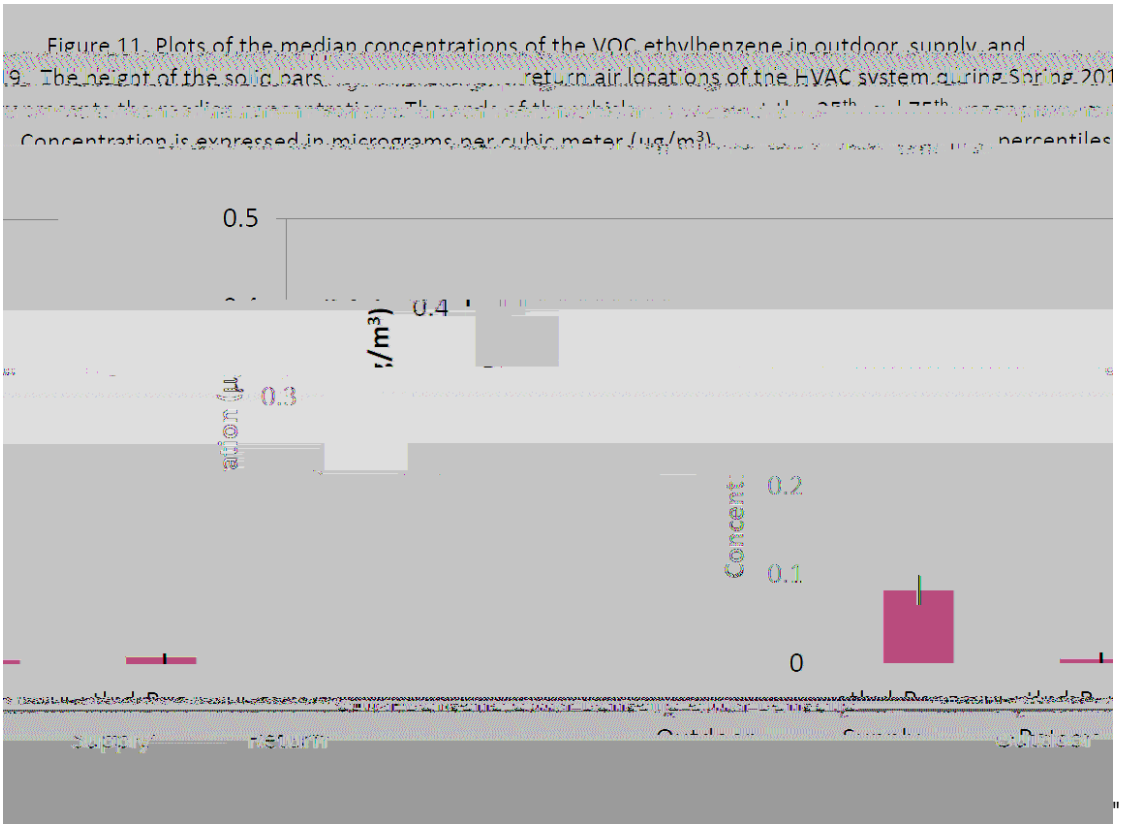
##"

"



#Q"

"



#U"

"