

Appendix I

Well Redevelopment Field Forms



Well ID: MW-1A

lient: Pepco		-1-1-		Da	te: 12	12/16		Time:	Start 1	
roject Name:	-	Road RI/FS							Finish /	140
roject Number: eveloper(s):			2							
eveloper(s).	DiDer	ueis, N.	Darnett							
WELL CONS	TRUCTION	DATA								
a. Casing Dia	meter/Mate	erial <u>2" P</u>	VC	d. N	/leasured	Total V	Vell Depth	(TOC)	34,0	90
b. Given Tota	al Well Dept	th (TOC)	34.32	e. N	/leasured	Depth			10.4	5
c. Given Scre	en Interval	(bgs) _[(	)-35	f. V	Vell Volur	ne (gal)		3.84	-	
· •					W	ell Volu	<sup>me</sup> = W	/ater Co	lumn Heigi	ht [ft] (d - e)
WELL DEVE	LOPMENT	DATA			(f	(gal) or 2" we	ell)		x 0.1632)	)
Well screen s	surged with	surge bloc	k? (Yes)	/ No						
Pump type(s)			$\cup$							
Pump type(s	<u> </u>	Nave				-		1.1	1	
Turbidity Met	er (Make/M	lodel/Serial	Number)	Li	Mott	e 28	20w	e :	S/N:50	795
Time Volume	· · · · · · · · · · · · · · · · · · ·			urbidity					Volume	
24 hr) Remove		(24 hr) R	emoved	(NTU)	(24 hr) Re	emoved	(NTU)	(24 hr)	Removed	(NTU)
75 2 94	9									1000
145 Pump	10M								19 13	
25 555	62,2							113	-51 1.1	
30 70	17.2 7.88		12-14							
	7:00									
									The Control of the Co	
								1		
Fime Volume 24 hr) Added	Time Vo (24 hr) Ad		e Volume		Volume		Volume Added	Time (24 hr)	Volume Added	
				(24 111)	Auueu	(24 11)	Audeu	(24 (11)	Audeu	
	· · · · · ·	-								
						-		-		
otal Volume Ad	ded		Total Volui	ne Remo	ved	80	-	Final Tu	rbidity	7.88
otal Volume Re	moved >11	0% of Tota	l Volume 4	Added	Res / N	lo	Final Tur	hidity <1	0 NTU2	Ves / No
	1				10071		i inai i ai	biology of	(	9/10
omments	ramp	rates	1.5 gal	Imin	-					
			0							
			•••							
ianatura	R	CA	1	/				-1	12/10/	10
ignature	de la companya de la		$\sim$	2			Da	ate	1414	D



Well ID: MW-1B

Client: Pepco	Date: 12/12/16 Time:	Start 1053
Project Name: Benning Road RI/FS		Finish 1205
Project Number: 60340344	1.00	
Developer(s): BiDaniels, N. Barrett		21-1-18 21-2-4
. WELL CONSTRUCTION DATA		
a. Casing Diameter/Material _2" PVC	d. Measured Total Well Depth (TOC)	51.45
b. Given Total Well Depth (TOC) <u>51, 49</u>	e. Measured Depth to Water (TOC)	10.45
c. Given Screen Interval (bgs) <u>40-52</u>	f. Well Volume (gal) 6,69	
	Well Volume _ Water Colu	umn Height [ft] (d - e)
2. WELL DEVELOPMENT DATA	(gal) (for 2" well)	x 0.1632)
Well screen surged with surge block?		
<u> </u>		
Pump type(s) Whale		,
Turbidity Meter (Make/Model/Serial Number)	La Motte 2020 ve S	N:5995
Time Volume Turbidity Time Volume Turbid		Volume Turbidity
(24 hr) Removed (NTU) (24 hr) Removed (NTU	I) (24 hr) Removed (NTU) (24 hr)	Removed (NTU)
1050 start surge 2 gal		
100 Stan Dumo		
130 55 23,5		Sector State of Sector
55 100 19.8		
200 110 13.4		7.9%. L. 3 (fr
200 20 3.76		
Time Volume Time Volume Time Volume Time		Volume
(24 hr) Added (24 hr) Added (24 hr) Added (24	hr) Added (24 hr) Added (24 hr)	Added
Fotal Volume Added Total Volume F	emoved 120 Final Tur	bidity 9.76
Total Volume Removed >110% of Total Volume Adde		
	d? fes/No Final furbidity < 10	Tes No
comments Pump rate 2 gal/min	and the Research and the second se	
Band		alialic
Signature	Date	16/16/16

b. Given Total Well Depth (TOC) $\overrightarrow{\mathcal{H}}$ e. Measure c. Given Screen Interval (bgs) $\overrightarrow{\mathcal{H}}$ f. Well Volu $\mathcal{B}$ -28 f. Well Volu Well screen surged with surge block? $\mathcal{D}$ for Pump type(s) $\underline{\mathcal{M}}$ for all for all for Pump type(s) $\underline{\mathcal{M}}$ for all for all for all for Pump type(s) $\underline{\mathcal{M}}$ for all for all for all for Pump type(s) $\underline{\mathcal{M}}$ for all for all for all for all for Pump type(s) $\underline{\mathcal{M}}$ for all for all for all for all for all for all for Pump type(s) $\underline{\mathcal{M}}$ for all for	15 03 0
Monitoring Well Develop         Project Name:       Benning Road RI/FS         Project Name:       Benning Road RI/FS         Project Number:       60340344         Developer(s):       Date:         Date:       Date:         WELL CONSTRUCTION DATA       a. Casing Diameter/Material       2" PVC         b. Given Total Well Depth (TOC)       H-H       e. Measure         c. Given Screen Interval (bgs)       H-H       f. Well Volu         g-28       f. Well Volu         Well screen surged with surge block?       Yes/ No         Pump type(s)       DATE:       Mark         Time Volume Turbidity Time Volume Turbidity Time       24 hr) Removed (NTU) (24 hr) Removed (NTU) (24 hr) F         MAS       Mark of Addet       Date:         Mass of Addet       Date:       Date:         Mass of Addet       Mark of Addet       Date:         Mark of Addet       Mark of Addet       Date:         Mass of Addet       Mark of Addet       Date:         Mark of Addet       Mark of Addet       Date: <th>Well ID: NW-25 # 2</th>	Well ID: NW-25 # 2
Client:       Pepco       Date:	Dry Dry
roject Name: Benning Road RI/FS roject Number: 60340344 eveloper(s): Anit Meterial 2" PVC d. Measure a. Casing Diameter/Material 2" PVC d. Measure b. Given Total Well Depth (TOC) 44-55 f. Well Volu C - 28 WELL DEVELOPMENT DATA Well screen surged with surge block? Vest No Pump type(s) 64-64 pump 64-64 No Pump type(s) 64-64 No Pum	
roject Number:       60340344         eveloper(s):       Anit Mubert         WELL CONSTRUCTION DATA         a. Casing Diameter/Material       2" PVC         b. Given Total Well Depth (TOC)       4. Measure         c. Given Screen Interval (bgs)       4	Time: Start <u>0845</u> Finish 1045
WELL CONSTRUCTION DATA         a. Casing Diameter/Material       2" PVC         b. Given Total Well Depth (TOC)       #####         c. Given Screen Interval (bgs)       #####         g-28       f. Well Volu         WELL DEVELOPMENT DATA       Well screen surged with surge block?       Ge/ No         Pump type(s)	1 mist
a. Casing Diameter/Material <u>2" PVC</u> d. Measure b. Given Total Well Depth (TOC) <u>34.32</u> e. Measure c. Given Screen Interval (bgs) <u>44-35</u> f. Well Volu <i>B-28</i> f. Well Volu <i>B-28</i> d. Well Screen Surged with surge block? (res/ No Pump type(s) <u>64.44 pump (Smail)</u> Turbidity Meter (Make/Model/Serial Number) <u>164.044</u> Turbidity Meter (Make/Model/Serial Number) <u>164.044</u> Time Volume Turbidity Time Volume Turbidity Time 24 hr) Removed (NTU) (24 hr) Removed (NTU) (24 hr) F <u>250 66.95 pump (Smail)</u> <u>752 66.95 pump (Smail)</u> <u>753 66.95 pump (Smail)</u> <u>754 66.95 pump (Smail)</u> <u>754 66.95 pump (Smail)</u> <u>755 66.95 pump (Smail)</u> <u>7</u>	
b. Given Total Well Depth (TOC) $\frac{2732}{32}$ e. Measure c. Given Screen Interval (bgs) $\frac{14-35}{32-35}$ f. Well Volu 3-25 f. Well Volu 3-25 f. Well Volu Well screen surged with surge block? (ref) No Pump type(s) $\underline{Malt pump (small)}$ Turbidity Meter (Make/Model/Serial Number) $\underline{LaMarte}$ Turbidity Meter (Make/Model/Serial Number) $\underline{LaMarte}$ ime Volume Turbidity Time Volume Turbidity Time 4 hr) Removed (NTU) (24 hr) Removed (NTU) (24 hr) F $\underline{250}$ $\underline{Marte}$ $\underline{3732}$ $\underline{440}$ $\underline{440}$ $\underline{740}$ $740$	Indal Final
c. Given Screen Interval (bgs) $\frac{44-35}{8-28}$ f. Well Volu 8-28 f. Well Volu WELL DEVELOPMENT DATA Well screen surged with surge block? Yes/ No Pump type(s) $\underline{44-25}$ No Pump type(s) No Pum type(s)	Vell Depth (TOC) NA 27.73
B-28       WELL DEVELOPMENT DATA         Well screen surged with surge block?       (es) No         Pump type(s)	to Water (TOC) <u> </u>
WELL DEVELOPMENT DATA         Well screen surged with surge block? (ses) No         Pump type(s)	
Well screen surged with surge block?       Yes/ No         Pump type(s)	= Water Column Height [ft] (d - e)
Pump type(s)	ell) x 0.1632)
Turbidity Meter (Make/Model/Serial Number)	
Turbidity Meter (Make/Model/Serial Number)	
Time       Volume       Turbidity       Time       Volume       Turbidity       Time         44 hr)       Removed       (NTU)       (24 hr)       Removed	
24 hr) Removed (NTU) (24 hr) Removed (NTU) (24 hr) R         250       Ungcal Surge and and property	WE Tursidimeter fire# 0340
BD       JUTC of SUTC Anot         BD       BT       SUTC of SUTC Anot         BD       BT       BT         BD       BT       Added         BD       BT       Added </th <th>Turbidity Time Volume Turbidity (NTU) (24 hr) Removed (NTU)</th>	Turbidity Time Volume Turbidity (NTU) (24 hr) Removed (NTU)
945       Pare and a formation         95       Pare and a formation	
Image: State of the state in the state in the state of the state	
Time Volume Added (24 hr) Added	
Time Volume Added (24 hr) Added	
Added (24 hr) Added (24 hr) Added (24 hr) Added         Added (24 hr) Added (24 hr) Added	
Added (24 hr) Added (24 hr) Added (24 hr) Added         Added (24 hr) Added (24 hr) Added	
4 hr)       Added       (24 hr)       Added       (24 hr)       Added         4 hr)       Added       (24 hr)       Added       (24 hr)       Added         otal Volume Added       MA       Total Volume Removed       Total Volume Added?       Yes	
otal Volume Added Total Volume Removed	Volume Time Volume
otal Volume Removed >110% of Total Volume Added? Yes	) Added (24 hr) Added
otal Volume Removed >110% of Total Volume Added? Yes	
otal Volume Removed >110% of Total Volume Added? Yes	
otal Volume Removed >110% of Total Volume Added? Yes	Final Turbidity 664
	Final Turbidity <10 NTU? Yes No
omments Manually surge will scous with s	the second s
Use whele pump to manually surge will se	ack them 0850-0905,
SICHMANT - Are discharge (< YONON)	Davide 1 purge until clear,
5 guts - 2 mins 57 sec 172 su = 1.74	16
ignature	

· 12	_		ποη	ng w	_			nt Red			State Press
Client: Pepco					Da	ate: 🦯	217/10	1000 1145	Time:	Start _	1750
Project Name:	-	g Road F	RI/FS		-	10	2/8/16	1000	)	Finish	1800
Project Number: Developer(s):			-				-	1145			
								-	1.2	1. 4-1	Fire
I. WELL CONS					d	Мореци	ed Total \	Mell Dept		In.hal 52.51	52.50
a. Casing Dia b. Given Tota										A.1 111	and the second second
					-						
c. Given Scre		vai (bgs)	38	-53	- T. \	veli vo	Well Volu	ime	13 5	ilons	
							(gal)	V	/ater Co	umn Heig x 0.1632	ght [ft] (d - e)
2. WELL DEVE	LOPMEN	NT DATA		1			(for 2" w	ell)			.,
Well screen s	surged w	ith surge	block?	Yes	No						
Pump type(s)	) du	per d	Orar	Insha.	Ic Pa	ino					
						-	2.0				0
Turbidity Met	er (Make	/Model/S	Serial Nu	umber)	24,	Motte	2070	) WE	Jurbic	Viniter	- Tint
Time Volume											Turbidity
(24 hr) Remove		J) (24	hr) Rem	oved (	NTU)		Removed	I (NTU)	(24 hr)	Removed	d (NTU)
	Suge					1017 1050	Bigin p	Sing/su	The w	whate p	amo
1917 Begn 1949 Row	argin	<u>67.45</u>	ng av i	MARK P	mp	1100	Porge or	mg 2's	to bet	En	
19-11	50.6	,				1118	125	10.53			
1924 143		3		-	_	1175	136	6.97			
8932 160	50.0			100							
	0 2' 0	A Sorto							1.1.70		
8932 160 * pul pum 1940 177	a 2' a 79.6	10									
8932 160 ** prv1 prvm 1940 177 1945 188	0 2' 0 79.0 51.5										
8932 160	0 2' 0 79.0 51.5										
8932 160 → pul pump 1940 197 1945 198 ★ Ac pat 1 Time Volume	2' 9 79.6 51.5 2.5 2.5	Volume	Time					Volume		Volume	
8932 160 → pul pump 1940 177 1945 188 ★ Ac pat 1 Time Volume	2' 9 79.6 51.5 2.5 2.5	Volume	Time					Volume ) Added		Volume Added	
8932 160 → pul pump 1940 197 1945 198 ★ Ac pat 1 Time Volume	2' 9 79.6 51.5 2.5 2.5	Volume	Time								
8932 160 → put pump 1940 177 1945 188 ★ Ac pat 1 Time Volume (24 hr) Added	2' 1 79.6 57.5 57.5 57.5 57.5 57.5 57.5 57.5 57	Volume	Time (24 hr)	Added	(24 hr)	Adde	ed (24 hr	) Added	(24 hr)	Added	]
8932 160 → put pump 1940 177 1945 188 ★ Ac pat 1 Time Volume (24 hr) Added	2' 1 79.6 57.5 57.5 57.5 57.5 57.5 57.5 57.5 57	Volume	Time (24 hr)	Added	(24 hr)	Adde	ed (24 hr	) Added	(24 hr)	Added	]
8932 160 → put pump 1940 177 1945 188 ★ Ac pat 1 Time Volume (24 hr) Added	2' 1 79.6 57.5 57.5 57.5 57.5 57.5 57.5 57.5 57	Volume	Time (24 hr)	Added	(24 hr)	Adde	ed (24 hr	) Added	(24 hr)	Added	]
8932 160 → put pump 1940 177 1945 188 ★ Ac pat 1 Time Volume (24 hr) Added	2' 1 79.6 57.5 57.5 57.5 57.5 57.5 57.5 57.5 57	Volume	Time (24 hr)	Added	(24 hr)	Adde	ed (24 hr	) Added	(24 hr)	Added	]
0932         160           ★ pull pump           0940         171           0945         188           ★ flc put         1           1945         188           ★ flc put         1           Time         Volume           (24 hr)         Added           Total Volume Re         1	e Time (24 hr)	Volume Added	Time (24 hr)	Added tal Volun	(24 hr) ne Rem	Adde	ed (24 hr	) Added	(24 hr) (28 hr) Final Tu bidity <1	Added	
0932         160           ★ pull pump           0940         171           0945         188           ★ flc put         1           1945         188           ★ flc put         1           Time         Volume           (24 hr)         Added           Total Volume Re         1	e Time (24 hr)	Volume Added	Time (24 hr)	Added tal Volun	(24 hr) ne Rem	Adde	ed (24 hr	) Added	(24 hr) (28 hr) Final Tu bidity <1	Added	
0932         160           ★ pull pump           0940         171           0945         188           ★ flc put         1           1945         188           ★ flc put         1           Time         Volume           (24 hr)         Added           Total Volume Re         1	e Time (24 hr)	Volume Added	Time (24 hr)	Added tal Volun	(24 hr) ne Rem	Adde	ed (24 hr	) Added	(24 hr) (28 hr) Final Tu bidity <1	Added	
Image: State of the state o	2' 10 79.0 51.5 51.5 6 Lace e Time (24 hr) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volume Added N/A >110% of Hy Srz te m < 10 A	Time (24 hr) To To Total V	Added	(24 hr)	Adde	ed (24 hr 12/7 188 y 188 y 1700 188 y 1700 189 y 1700 189 y 189 y 18	) Added Participants Final Tur with provide for	(24 hr)	Added	12/7 51.5 (Ye) (P) 215. 27.5.
Image: State of the state o	2' 10 79.0 51.5 51.5 6 Lace e Time (24 hr) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volume Added N/A >110% of Hy Srz te m < 10 A	Time (24 hr) To To Total V	Added	(24 hr)	Adde	ed (24 hr 12/7 188 y 188 y 1700 188 y 1700 189 y 1700 189 y 189 y 18	) Added Participants Final Tur with provide for	(24 hr)	Added	12/7 51.5 (Ye) (P) 215. 27.5.
0932         160           ★ pull pump           0940         171           0945         188           ★ flc put         1           1945         188           ★ flc put         1           Time         Volume           (24 hr)         Added           Total Volume Re         1	2' 10 79.0 51.5 51.5 6 Lace e Time (24 hr) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volume Added N/A >110% of Hy Srz te m < 10 A	Time (24 hr) To To Total V	Added	(24 hr)	Adde	ed (24 hr 12/7 188 y 188 y 1700 188 y 1700 189 y 1700 189 y 189 y 18	) Added Participants Final Tur with provide for	(24 hr)	Added	12/7 51.5 (Ye) (P) 215. 27.5.



Well ID: MW-3A

Client: Pepco Project Name: Benning Road RI/FS Project Number: 60340344 Developer(s): 6 Daniels	Date:	12/7/1	6	Time:	Start <u>i (</u> Finish <u>)</u> /	
I. WELL CONSTRUCTION DATA         a. Casing Diameter/Material <u>2" PVC</u> b. Given Total Well Depth (TOC) <u>25,08</u> c. Given Screen Interval (bgs) <u>(0-25</u> 2. WELL DEVELOPMENT DATA         Well screen surged with surge block? Yes No         Pump type(s) <u>Super Surger W</u> Turbidity Meter (Make/Model/Serial Number)	f. Well Vol	ed Depth t lume (gal) Well Volur (gal) (for 2" we	o Water (T <u>2.</u> ne <sub>=</sub> Wa II)	OC) 21 Iter Col	11.55 lumn Heigh x 0.1632)	1 nt [ft] (d - e)
	dity Time	Volume	Turbidity	Time	Volume	Turbidity
Time Volume Time Volume Time Volume Tire (24 hr) Added (24 hr) Added (24 hr) Added (24 Cotal Volume Added Total Volume R	hr) Adde		Added (	Time 24 hr) inal Tu	Volume Added	9.4
Total Volume Removed >110% of Total Volume Adde Comments <u>Pump cate 2-gal/min</u> Signature <u>B</u>	d? Yes		Final Turb		0 NTU?	Yes / No



Client: Pepco Project Name: Benning Road RI/FS Project Number: 60340344 Developer(s): B, Danit /5	Date: <u>17/7/1</u> -	<u>6</u> Time: Start Finish	0925 1055
<ol> <li>WELL CONSTRUCTION DATA         <ul> <li>a. Casing Diameter/Material <u>2" PVC</u></li> <li>b. Given Total Well Depth (TOC) <u>49, 76</u></li> <li>c. Given Screen Interval (bgs) <u>40-50</u></li> </ul> </li> <li>WELL DEVELOPMENT DATA         <ul> <li>Well screen surged with surge block? Yes/ No</li> </ul> </li> </ol>	e. Measured Dept f. Well Volume (ga Well Vo (gal (for 2" v	= valer column ne (0.16)	eight [ft] (d - e)
Pump type(s) Whak		02 One SN?	916
TimeVolumeTurbidityTimeVolumeTurbidity $(24 hr)$ Removed $(NTU)$ $(24 hr)$ Removed $(NTU)$ $0925$ StartSurge $0940$ StopSurge $0940$ StopSurge $0940$ Stop $0940$ $0940$ StopSurge $0940$ Stop $0940$ $0940$ StopSurge $0940$ $0940$ $0940$ $0940$ StopSurge $0940$ $0960$ $0020$ Stop $0960$ $0960$ $0960$ $0030$ $75^{-1}$ $666.2$ $0940$ $090$ $0940$ $90$ $492$ $0960$ $0960$ $0940$ $90$ $492$ $0960$ $0960$ $0940$ $90$ $492$ $0960$ $0960$ $0940$ $90$ $492$ $0960$ $0960$ $0975$ $000$ $23.1$ $0970$ $0960$ $0050$ $100$ $17.8$ $0970$ $0970$ $1055$ $120$ $8.71$ $0970$ TimeVolumeTimeVolume	J) (24 hr) Remove	e Turbidity Time Volum ed (NTU) (24 hr) Remov	ed (NTU)
Total Volume Removed >110% of Total Volume Added Comments	Removed 120 WA Yes / No	nr) Added (24 hr) Adde	d 8.71 ? (Yes)/No
Signature B D		Date(2/7	116



Well ID: MW-4A

roject Name: Benning Road RI/FS roject Number: 60340344 eveloper(s): B, Danniels, M, Karr	Date: 12/9/16 Time: Start 1/25 Finish 1230
WELL CONSTRUCTION DATA	
a. Casing Diameter/Material PVC	d. Measured Total Well Depth (TOC) 25, 93
b. Given Total Well Depth (TOC) 25.93	e. Measured Depth to Water (TOC)
c. Given Screen Interval (bgs)	f. Well Volume (gal) 2,42
	Well Volume (gal) = Water Column Height [ft] (d - e)
WELL DEVELOPMENT DATA	(for 2" well) x 0.1632)
Well screen surged with surge block? (Yes)/ N	lo
Pump type(s) Male pump	
	1. 11 1. 2000
Turbidity Meter (Make/Model/Serial Number)	La Motte 2020 NO. 916
	bidity Time Volume Turbidity Time Volume Turbidity TU) (24 hr) Removed (NTU) (24 hr) Removed (NTU)
125 Startswale	
2101	
140 Stiert Dump 215 60 cal 70.5	
25 8561 26.9	
230 110 3:07	
Time Volume Time Volume Time Volume	Time Volume Time Volume Time Volume
4 hr) Added (24 hr) Added (24 hr) Added (	
otal Volume Added Control Total Volume	Removed 10 Final Turbidity 867
	(ArA)
otal Volume Removed >110% of Total Volume Ad	ded? Yes No Final Turbidity <10 NTU? Yes / No
omments	
an a	
3 7=1	- in falle
ignature	Date <u>12/9//6</u>



Well ID: MW-4B

Client: Pepco Project Name: Benning Road RI/FS Project Number: 60340344 Developer(s): B. Dan K.S., M. Ramet	Date: <u>12 9  6</u> Time: Start <u>  05</u> Finish <u> 235</u>
<ol> <li>WELL CONSTRUCTION DATA         <ul> <li>a. Casing Diameter/Material <u>2" PVC</u></li> <li>b. Given Total Well Depth (TOC) <u>44.6</u></li> <li>c. Given Screen Interval (bgs) <u>34-44</u></li> </ul> </li> <li>WELL DEVELOPMENT DATA         <ul> <li>Well screen surged with surge block?</li> <li>Yes No</li> </ul> </li> </ol>	d. Measured Total Well Depth (TOC) $(0.99)$ e. Measured Depth to Water (TOC) $44.60$ f. Well Volume (gal) $5.49$ Well Volume $(gal)$ = Water Column Height [ft] (d - e) $\times 0.1632$ ) (for 2" well)
	La Motte 2020 Ve W: 916 dity Time Volume Turbidity Time Volume Turbidity U) (24 hr) Removed (NTU) (24 hr) Removed (NTU)
Time       Volume       Time       Volume       Time       Volume       Time         (24 hr)       Added       (24 hr)       Added       (24 hr)       Added       (24 hr)         Image: Strain Str	
Total Volume Added	atta)



Well ID: MM-517

Client: Pepco	Date:	12/8/16	Time: Start <u>2850</u>
Project Name: Benning Road RI/FS			Finish 0255
Project Number: 60340344			
Developer(s): B. Danvels			T BUM LI BUSH AS
I. WELL CONSTRUCTION DATA			U. C. 1 15.05. 1 10.
a. Casing Diameter/Material _2" PVC	d. Meas	ured Total Well Depti	n (TOC) <u>1916 %</u>
b. Given Total Well Depth (TOC) 19.68		ured Depth to Water	
c. Given Screen Interval (bgs) <u>10 - 7 o</u>	f. Well \	/olume (gal)	0,75
		(gal) Well Volume = V	Vater Column Height [ft] (d - e) x 0.1632)
2. WELL DEVELOPMENT DATA		(for 2" well)	× 0.1002)
Well screen surged with surge block?	)		
Pump type(s) Whale			
Turbidity Meter (Make/Model/Serial Number)	Call	otte 2020m	SN1916
Time Volume Turbidity Time Volume Turbi	idity Tim	e Volume Turbidit	y Time Volume Turbidity
24 hr) Removed (NTU) (24 hr) Removed (NT	U) (24 f	r) Removed (NTU)	(24 hr) Removed (NTU)
U.S.gal			
2920 Statt Pump 2945 3 48,8			
75 10 36.7			
1010 12 25.5			
1020 15 14,8			
645 20 12.2			
05 24 8.9			
		ume Time Volume	Time Volume
24 hr) Added (24 hr) Added (24 hr) Added (24	4 hr) Ad	ded (24 hr) Added	(24 hr) Added
7930 1 1075 1 7941 1 1010 1	~~		
UIE I IDSO I			
Total Volume Added 6 Total Volume F	Pomoved	24	Final Turbidity 8.9
	Centoved		
otal Volume Removed >110% of Total Volume Adde	ed? Ye	No Final Tu	rbidity <10 NTU? Yes/ No
comments Randry multipletimes.	0		
a na an			
2001	_		101
Signature 8		D	ate 12/8/16



## Well ID: MW-573

	1-19/11	
Client: Pepco	_ Date: <u>2/8//6</u> Time:	
Project Name: Benning Road RI/FS		-inish <u>1140</u>
Project Number: 60340344		
Developer(s): <u>B, Daniels</u>		
1. WELL CONSTRUCTION DATA		エフコド
a. Casing Diameter/Material <u>2" PVC</u>	d. Measured Total Well Depth (TOC)	57.71
b. Given Total Well Depth (TOC) <u>57,72</u>	e. Measured Depth to Water (TOC)	17,24
c. Given Screen Interval (bgs) <u>41-56</u>	f. Well Volume (gal)6.6	
		umn Height [ft] (d - e)
2. WELL DEVELOPMENT DATA	(for 2" well)	x 0.1632)
Well screen surged with surge block? (Yes) No	)	
Pump type(s) <u>Supersurger</u>	Jaule	
	111 12 2020	e
Turbidity Meter (Make/Model/Serial Number)	La Motte 2020ne	SN: 916
		Volume Turbidity
(24 hr) Removed (NTU) (24 hr) Removed (NT	U) (24 hr) Removed (NTU) (24 hr)	Removed (NTU)
1100 Start Surge		
130 <b>30</b> gul 55,3		12 1 1 10 1 10 1
131 18.3		
140 60 702		
Time Volume Time Volume Time Volume T (24 hr) Added (24 hr) Added (24 hr) Added (2	ime Volume Time Volume Time 4 hr) Added (24 hr) Added (24 hr)	Volume Added
Total Volume Added Total Volume	Removed <u>60</u> Final Tur	bidity
Total Volume Removed >110% of Total Volume Add	ed? Yes / NOT Final Turbidity <10	NTU? Ves No
2		<u>O</u>
Comments <u>Fumprate ~ Zgal/mi</u>	Л	
	/	1. inf.
Signature S	Date	12/8/16
-		· •



Well ID:	MW-6A
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Client: Pepco Project Name: Benning Road RI/FS	Date: <u>12/8/16</u> Time: Start <u>1145</u> Finish <u>1335</u>
Project Number: 60340344 Developer(s): <u>Annal Hubert</u>	
1. WELL CONSTRUCTION DATA	hitsel Final
a. Casing Diameter/Material <u>2" PVC</u>	d. Measured Total Well Depth (TOC) 28.09 28.09
b. Given Total Well Depth (TOC) <u>28.11</u>	e. Measured Depth to Water (TOC) 16.69
c. Given Screen Interval (bgs)	f. Well Volume (gal) 1.86 gallon 5
2. WELL DEVELOPMENT DATA Well screen surged with surge block? Yes No	Well Volume (gal) = Water Column Height [ft] (d - e) (for 2" well) x 0.1632)
Pump type(s) Syr Suger Whate	Rima
Time Volume Turbidity Time Volume Turbid	dity Time Volume Turbidity Time Volume Turbidity U) (24 hr) Removed (NTU) (24 hr) Removed (NTU)
1150 Sorge al Surge Block	
1245 Began aviging / siging al which pump 12411 Parce only	2
1250 Pell for 2 at bottom	
1311 120 51.6 1312 135 10.74	
1319 159 7.45	
Time       Volume       Time       Volume       Time       Volume       Time         (24 hr)       Added       (24 hr)       Added       (24 hr)       Added       (24 hr)	
Total Volume Added     NA     Total Volume F       Total Volume Removed >110% of Total Volume Added	Removed <u>159 getters 5</u> Final Turbidity <u>765</u> ed? YesTNo Final Turbidity <10 NTU? Yes No
Comments Manually surge Hall screen Use whele pump to manufully surge sectionent - the discharge achieved (	With SUTE Block Aum 1150-1205. 11.11 SCTUP. Devilup/purge Until decry
5 gellens - 2mins 20 seconds = 2-14	gals/minite
Signature Allang	Date <u>12/8/14</u>

AECOM				Well ID: M	v-68
	Monitoring	Well Deve	lopment Re	cord	
Client: <u>Pepco</u> Project Name: <u>Bennin</u> Project Number: <u>603403</u> Developer(s): <u>)</u>		Date:	12/7/16	_ Time: Start Finish	
	ON DATA		-	Inital	Final
a. Casing Diameter/N	laterial <u>2" PVC</u>	d. Meas	ured Total Well Dep	oth (TOC) <u>5586</u>	200 J. 748
b. Given Total Well D	epth (TOC) <u>55-82</u>	e. Meas	ured Depth to Wate	r (TOC) 16.20	0
c. Given Screen Inter	val (bgs) <u>41-56</u>	f. Well V	olume (gal)	6.46 garons	1. 3 A.
2. WELL DEVELOPME	NT DATA		Well Volume (gal) = (for 2" well)	Water Column Heig x 0.1632	µht [ft] (d - e) ∶)
Well screen surged w	ith surge block?	es No			
Pump type(s)	Cour Porce What	Pump			
		-	7		0
Turbidity Meter (Make	e/Model/Serial Numbe	er) <u>La Mon</u>	2 Jazo WE	Indicimenter Fi	in #: 0340
Time Volume Turbic				ity Time Volume	
(24 hr) Removed (NTU 1330 Sorre ad Sorre	) (24 nr) Removed	(NTU) (24 n		) (24 hr) Removed	
	surging by what	prop	1. 20. 1		381 L.A.
1435 Purce into	2				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
1442 101 and 1454 134 31.2	and borrow			1 146 1 1	140.00
1505 156 20.3					22.17/14
1510 166 9.60	5				
	Volume Time Volu Added (24 hr) Add				
Total Volume Added	NH Total V	olume Removed	166 gellone	Final Turbidity	9.60
Total Volume Removed >	>110% of Total Volum	ne Added? Ye	s7No Final T	urbidity <10 NTU?(	Yes/No
Comments Manual					<u> </u>
Comments <u>Manual</u> 15c Whale pump sidionat - Are dis	to markelly on	Te With St	TO SIVILOIN	1570 1575	~
sidiment - Are dis	chorge achiered	( «IONTI)		0	/
5 gds -> 150.	arrendes de	yas min			
	1 - 11 /				/
Signature	www.			Date 12/7/	10

199 00

.



Well ID: MW-7A

Client:_ Project   Project   Develop	Number:	Benning R 60340344		FS		ate:	[2/12/	16	Time:	Start <u>c</u> Finish <u>c</u>	
a. Ca b. Gi c. Gi <b>2. WEL</b> Well Pum	asing Dia iven Tota iven Scre L DEVEI screen s ap type(s)	TRUCTION meter/Mate I Well Depti en Interval	rial <u>2</u> " h (TOC) (bgs) DATA surge bl	<u>28</u> 8-25 ock? (Vi 1 k	ES No	Measu Well Vo	red Total W red Depth t lume (gal) Well Volu (gal) (for 2" we	o Water (T me <sub>=</sub> Wa	TOC) 23 ater Co	<u>i3,5</u> 6 lumn Heigl x 0.1632)	) ht [ft] (d - e)
Turb	oidity Mete	er (Make/Mo	odel/Ser	ial Numbe	r) <u>La</u>	Mot	te 202	20 we	9	N:50	795
Time (24 hr)	Volume Removed	Turbidity d (NTU)		Volume Removed			Volume Removed	Turbidity (NTU)		Volume Removed	
2805	Start	Surge			5 - P.	1.140	No. Mar	·		5.8.1.1.6	
9820	Pump	on	K_						11.2		1065 (58)
205	399	50.7		at a	-			_		100	
A10	95	26.1	9				<u></u>		1.4	20.14	94 I 5
2920	105	\$ 77			in the second			· <u>····</u> ······		•	
					1.24				<b> </b>		
Time (24 hr)	Volume Added	Time Vo (24 hr) Ac			me Time ed (24 hr)			Volume Added	Time (24 hr)	Volume Added	
Total Vo	olume Ad	ded	-	Total Vo	olume Rem	oved	115	F	Final Tu	rbidity	8.77
Total Vo	olume Re	moved >11	0% of T	otal Volum	e Added2	(NT	Ro	Final Turb	vidity <1	0 NTU2	Yes No
		•			/ .			i inter i erte	, and y	01110. (	
Comme	ents	Pump	rate	Laal	min						
										A.	
	100	1		***							
					,		e				
Signatu	re	B	C		->			Da	te	12/12/1	6
		1000	-	$\rightarrow$			-	Du		-pape	



Well ID: MW-7B

lient: Pepco	Date: 11	2/12/16		Time <sup>.</sup>	Start 2	825
roject Name: Benning Road RI/FS		10110		rine.	Finish ()	
roject Number: 60340344	_					+**
eveloper(s): BDown Mls, Ni Barnett						
WELL CONSTRUCTION DATA	1					
a. Casing Diameter/Material _ 2" PVC	d. Measure	ed Total We	ell Depth (	TOC)	50	.80
b. Given Total Well Depth (TOC) 50.88	e. Measure	ed Depth to	Water (T	C)	13,5	7
c. Given Screen Interval (bgs) 36-51	f. Well Volu		BOZ			
		Nell Volum			1	nt [ft] (d - e)
WELL DEVELOPMENT DATA		(gal) (for 2" well			x 0.1632)	
			)			
Well screen surged with surge block? (Yes) No	2					
Pump type(s) Whale				1.12	1035.7.5	
Turbidity Meter (Make/Model/Serial Number)	LaMor	Te 20	Dene	- 5	141:59	195
Time Volume Turbidity Time Volume Turbi			Turbidity			Turbidity
24 hr) Removed (NTU) (24 hr) Removed (NT 925 Start Surge	U) (24 nr) i	Removed	(NTU) (	24 nr)	Removed	(NTU)
- dal -						
83h Frim Don					2 1 1 28	
CID 70 85.5						
935 20 24						
45 140 14,2						
950 150 11.9						
955 160 9.25						
Time Volume Time Volume Time Volume Ti				Time	Volume	
24 hr) Added (24 hr) Added (24 hr) Added (24	4 nr) Addeo	d (24 hr)	Added (2	24 hr)	Added	
otal Volume Added Total Volume I	Removed	160	Fi	nal Tu	rbidity	9:25
otal Volume Removed >110% of Total Volume Adde	-					0
Stal Volume Removed >110% of 1 Stal Volume Adde	ed ( Yes /	NO F	Inal Turbio	aity <1	UNIU?	Yes / No
omments Pumprare: 2 gal/mil	1				_	
		_				
20.0		and the second sec				1
ignature 365			Date	• <u> </u>	2/12/	16
6						

AECOM

Well ID: MW-8A

lient: Pepco	Date: 12/0/16 Time: Start 8745
roject Name: Benning Road RI/FS roject Number: 60340344	Finish
	KBArrett
	d. Measured Total Well Depth (TOC) 23.74
a. Casing Diameter/Material <u>2" PVC</u>	
b. Given Total Well Depth (TOC) 24.22	e. Measured Depth to Water (TOC) 13.56
c. Given Screen Interval (bgs) 10-25	f. Well Volume (gal)
	Well Volume (gal) = Water Column Height [ft] (d - e)
. WELL DEVELOPMENT DATA	(for 2" well) x 0.1632)
Well screen surged with surge block? Yes / No	
	6 6 Miles
Pump type(s) Whate	
Turbidity Meter (Make/Model/Serial Number)	LaMotte 2020 ne S/N: 916
Time Volume Turbidity Time Volume Turbi	
24 hr) Removed (NTU) (24 hr) Removed (NT	
0745 Start Surge	
7521 Start v hule	E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
084522	
805 45 62,5	
130 75 9.46	
2415 7072/	
Time Volume Time Volume Time Volume Ti 24 hr) Added (24 hr) Added (24 hr) Added (24	
otal Volume Added Total Volume F	Removed 75 Final Turbidity 9.46
otal Volume Removed >110% of Total Volume Adde	ed? Yest No Final Turbidity <10 NTU? Yes / No
comments <u>Riser rebuilt</u> . TUCELEU	ation changed,
0 - 1	
signature	Date2/9/16



Well ID: MW-8B

ient: Pepco				C	)ate:	12/0/16		Time:	Start (	835
oject Name:	Benning Re	oad RI/F	S			q			Finish C	945
oject Number:	Charles and the second se		- Alexander							
eveloper(s):	Ben	Saniel	5 N	htk B	surret	1				
WELL CONST	RUCTION	DATA								表 清
a. Casing Dia	meter/Mater	rial <u>2" F</u>	PVC	d.	Measu	ed Total W	ell Depth	(TOC)	60,	25
b. Given Total	Well Depth	(TOC)	60.31	e.	Measu	ed Depth t	o Water (1	TOC)	14,5	3
c. Given Scree	en Interval (	bgs)	50-60	<u>2</u> f.	Well Vo	lume (gal)	7.	46		
						Well Volur	ne <sub>=</sub> Wa	ater Co	lumn Heig	ht [ft] (d - e)
WELL DEVEL		ATA				(gal) (for 2" we	II)		x 0.1632	
Well screen s	urged with s	surge blo	ck? Y	es No						
Pump type(s)	WI	rale		_					28.1	
Turbidity Mete	er (Make/Mo	del/Seria	al Number	r)		(				
Time Volume 24 hr) Removed	Turbidity (NTU)		Volume Removed			Volume Removed	Turbidity (NTU)		Volume Removed	Turbidity (NTU)
835 Start	surge			()	( /		(			
'Lgal	3								3 1 1	0
And the second states of a printing of	pump	12								
40 75	162									
145 35	3.67									
										1
		- N								
										2
ime Volume	Time Volu			me Time			Volume	Time	Volume	
4 hr) Added	(24 hr) Ad	ded (24	hr) Add	ed (24 hr	) Adde	ed (24 hr)	Added	(24 hr)	Added	
		-		-	-				_	
				1.0						
										~
tal Volume Ado	ded		Total Vo	lume Ren	noved	85	F	inal Tu	rbidity	5.67
			hal Maluma	- AddedQ	Val	NA	Einel Turk	الاير بيانان		
tal Volume Rei		076 01 10	lar volum	e Added?	res	/10	Final Turb		0 NTU?	Tes No
omments	Riser re	ebuilt.	TOC	eleve	tion (	hong	ed.			
	11						<u>. 1 3 </u>			1
										199
	140					-		_		
1.1	- X						_	-	-	
			1				-		·	1
1	5 6	7	11				Dat		12/1	111
gnature 🗡	mil		1		6		Dai	.e	1017	16

## AECOM

## Well ID: MW-9A

Client: Pepco Project Name: <u>Benning Road RI/FS</u> Project Number: <u>60340344</u> Developer(s): <u>B Dani Cls, N. Barret</u>	Date: <u>12 12  </u>	ζ Time:	Start <u>1300</u> Finish <u>1520</u>
<ol> <li>WELL CONSTRUCTION DATA         <ul> <li>a. Casing Diameter/Material <u>2" PVC</u></li> <li>b. Given Total Well Depth (TOC) <u>38.90</u></li> <li>c. Given Screen Interval (bgs) <u>18-38</u></li> </ul> </li> <li>WELL DEVELOPMENT DATA         <ul> <li>Well screen surged with surge block?</li> <li>Yes) No Pump type(s) <u>Wha(c</u></li> </ul> </li> </ol>	d. Measured Total V e. Measured Depth f. Well Volume (gal) Well Volu (gal) (for 2" w	to Water (TOC) ) <u> </u>	26.35
	lity Time Volume	Turbidity Time	S/N:5995 Volume Turbidity Removed (NTU)
Time Volume Time Volume Time Volume Tir (24 hr) Added (24 hr) Added (24 hr) Added (24			Volume Added
Total Volume Added Total Volume R Total Volume Removed >110% of Total Volume Adde Comments <u>Ran Vry multiple time</u>	d? Yes / No	Final Turbidity <1	



Well ID: MW-9B

	Data in list it Time that to
lient: Pepco roject Name: Benning Road RI/FS roject Number: 60340344 eveloper(s): B, Daniels, N. Barce	_ Date: <u> 2/ 2/(i6</u> Time: Start <u>(320</u>   
WELL CONSTRUCTION DATA	1 28.50 V.S
a. Casing Diameter/Material _2" PVC	d. Measured Total Well Depth (TOC) 65.46
b. Given Total Well Depth (TOC) 65,52	e. Measured Depth to Water (TOC) 27.85
c. Given Screen Interval (bgs) 51-66	f. Well Volume (gal) 6.14
	Well Volume _ Water Column Height [ft] (d - e)
. WELL DEVELOPMENT DATA	(gal) x 0.1632) (for 2" well)
Well screen surged with surge block? (Yes)/ No	
Pump type(s) Whale	11
Turbidity Meter (Make/Model/Serial Number)	La Motte 2020ne S/NI5995
	idity Time Volume Turbidity Time Volume Turbidity
	U) (24 hr) Removed (NTU) (24 hr) Removed (NTU)
Zan Startsurge	
330 Starpump 110 50 31.2	
415 55 19.8	
420 60 15.2	
425 70 12.5	
Time Volume Time Volume Time Volume T 24 hr) Added (24 hr) Added (24 hr) Added (24	
otal Volume Added Total Volume	Removed 75 Final Turbidity 6.80
otal Volume Removed >110% of Total Volume Add	ed? Ves / No Final Turbidity <10 NTU?
omments	
2	
Signature	Date 12/12/16



Well ID: MW-IDA

Client: Pepco Project Name:		oad RI/ES		Da	ite: 10	16/16		Time:	Start //	
Project Number:	-	Udu RI/FS							· · · · · · · · ·	1500_
Developer(s):		10 Dea	thubiat	4						
	jen peone	S, Den	1141961					-	-01-11	
WELL CONS	TRUCTION	DATA								B: 30 34
a. Casing Dia	meter/Mate	rial <u>2" P\</u>	/C	d. I	Measure	d Total W	/ell Depth	(TOC)	30.30	2 \$
b. Given Total Well Depth (TOC)					Measure	d Depth t	o Water (	TOC)	11.24	0
c. Given Scre	en Interval	(bgs) _ <i>10</i>	-201	f. V	Vell Volu	me (gal)		11		
					V	Vell Volu	<sup>me</sup> <sub>=</sub> W	ater Co	lumn Heigl	nt [ft] (d - e)
. WELL DEVE		DATA				(gal) (for 2" we	ell)		x 0.1632)	
			2 Vas	)/ No						
Well screen s			$\sim$							
Pump type(s)	Jurger	hina	te ouni	2						
Turbidity Met	6		/ /		Mitte	2020	ME	Pine	1. 13	40260
Time Volume (24 hr) Remove		Time V (24 hr) Re				Volume Removed			Volume Removed	
	durging	T		(			(	( ,		(
1020 Pimp 14	4 string									
1132 Withall	81									
414 1225	40.6					-	1			
1236	17.6							1 8	-25-1-8	82 1 8
1241	19.8	1						1.1	1.10	
12-15 110	+							┨──		
	1			-						
<b>T</b> ime <b>1</b> ( 1 )	Time	Luna Tina		Time	Malum	. Time	Valuma	Time	Volume	
	e Time Vo (24 hr) Ad						Volume Added	(24 hr)	Added	
	Ť	Ì	í.	Ť Í		Ţ				
								-		(
Total Volume Ac	Ided /	A.	Total Volu	me Rem	oved	KET /	In car	Final Tu	urbidity	19.9
	2	<u> </u>			6	IA)	-			$\sim$
Total Volume Re	moved >11	0% of Tota	I Volume	Added?	Yes7	No	Final Tur	bidity <1	10 NTU?	Yes (No)
Comments							1 0-1-1			
1144 00	2	1.5		/	pune	Im · C	y geism	<i>.q</i>	-	
1146 33								1		
2min 33.	<i>41</i>			_				_		
153 SC	(-> 5.56.	15	_							
	0	. 1		1-				_		. /
Signature	5 /	Chr	M				Da	ate	12/6	/10
			VO							



Well ID: MW-10B

client: <u>Pepco</u> Project Name: <u>Benning Road RI/FS</u> Project Number: <u>60340344</u> Developer(s): <u>En Dani'e / Dan Hulb</u> e	_ Date:	12/6/16	Time:	Start <u>0845</u> Finish <u>///5</u>
WELL CONSTRUCTION DATA         a. Casing Diameter/Material <u>2" PVC</u> b. Given Total Well Depth (TOC) <u>55. 90</u> c. Given Screen Interval (bgs) <u>41-56</u> WELL DEVELOPMENT DATA	e. Measur f. Well Vo	red Depth to Water	(TOC)	<u>11.73</u> umn Height [ft] (d - e) x 0.1632)
Well screen surged with surge block?       Yes) No         Pump type(s)       SuperSurger with         Turbidity Meter (Make/Model/Serial Number)       I	hale p		Pine 1	D:034026
		Removed (NTU)	(24 hr)	Volume Turbidity Removed (NTU)
Total Volume Added <u>X/A</u> Total Volume F Total Volume Removed >110% of Total Volume Adde Comments <u>Pump Fate: Zgd/m/</u>	GA	No Final Tu		rbidity <u>9.45</u> 0 NTU? Yesy No



<b>Well ID:</b>	MW-11A

Client: Pepco	Date:	2/9/16	Time:	Start 0715
Project Name: Benning Road RI/FS		1 1 1		Finish 1905
Project Number: 60340344	1			
Developer(s): Danil Mubist				
1. WELL CONSTRUCTION DATA				Initial Final
a. Casing Diameter/Material _ 2" PVC	d. Measur	red Total We	ell Depth (TOC)	40.44 41.37
b. Given Total Well Depth (TOC) <u>40.75</u>	e. Measu	red Depth to	Water (TOC)	12.12
c. Given Screen Interval (bgs) _27-42	f. Well Vo	lume (gal) Well Volum	4.62	
2. WELL DEVELOPMENT DATA		(gal) (for 2" well		lumn Height [ft] (d - e) x 0.1632)
Well screen surged with surge block?				
Pump type(s) Super Surger Whate	Pump			1
Turbidity Meter (Make/Model/Serial Number)	/	2020	we provid	moter Piret
Time Volume Turbidity Time Volume Turbidity (24 hr) Removed (NTU) (24 hr) Removed (NTU)				Volume Turbidity Removed (NTU)
1720 Suge well up Suge Black				
136 Sogel Roge and up while prop				
0820 Pull non i' out buton				10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0833 71.25 40.5			1 1 3	
0845 8625 213				
0851 9375 952	-			
Time Volume Time Volume Time Volume Ti (24 hr) Added (24 hr) Added (24 hr) Added (24				Volume Added
		0170		1.1.1. Q.C.2
Total Volume Added Total Volume F		~ ~	<u>salles</u> Final II	Irbidity 7.32
Total Volume Removed >110% of Total Volume Adde	ed? Yes	No F	inal Turbidity <	10 NTU? Yes No
Commente				
Comments <u>Manually surge well up</u>	Tig blo	for dical	northy are	fary with
with proper with the start of the			The second	
5 gellons -> 4 mins 240 selests =	1:25	ian		
Signature AMM			Date	12/9/2016
				,



#### Well ID: MW-11B

lient: Pepco	E	Date: 12/8	Time:	Start 1400
roject Name: Benning Ro	bad RI/FS	-		Finish 1301525
roject Number: 60340344	1			N 52 - 32 - 32 - 32 - 32 - 32 - 32 - 32 -
eveloper(s): <u>) Conice Han</u>	1/2 mp			
WELL CONSTRUCTION	DATA			Inital Final
a. Casing Diameter/Mater	ial <u>2" PVC</u>	d. Measured Tota	al Well Depth (TOC)	61.67 61.69
b. Given Total Well Depth	(TOC) 61.70		oth to Water (TOC)	
c. Given Screen Interval (I	ogs) 50-62	f. Well Volume (g	gal) <u>7.84</u>	<u>qallons</u>
		Well V (ga	olume = Water Co	lumn Height [ft] (d - e)
. WELL DEVELOPMENT D	АТА	(for 2)		x 0.1632)
Well screen surged with s	urge block? Yes No			
Pump type(s)	furger Whele F	ump		
				2
Turbidity Meter (Make/Mo	del/Serial Number)	La Motte 202	o We pursiding	ter fine #: 03400
Time Volume Turbidity 24 hr) Removed (NTU)	Time Volume Turbic (24 hr) Removed (NTL		ne Turbidity Time	
1465 Sirce al surce B		5) (24 III) Kelliot		
	ing with whale pring	2		
149 Park only				
450 frit and 2' 00 1500 110 31.6	t botten			
1515 140 9.11			1.1.1	201 1 1 20 1 A
		L		
Time Volume Time Volu 24 hr) Added (24 hr) Added			ne Volume Time hr) Added (24 hr)	Volume Added
otal Volume Added NA	Total Volume R	Removed 146	Gellens Final Tu	rbidity 9.11
		(NA)		
	% of Total Volume Adde	d? Yes#No	Final Turbidity <1	0 NTU? Yes/ No
otal Volume Removed >110		act from 14	105-1420. US	a whale
		bet from 14	105-1420. 1/3 Se until char,	sidant - Arce
	NIGE with SUGE by hige will server. of (<10 NTC),	tet for 14 Sarige/purg	105-1420. US Se Until cher	C whele Sichard - All
comments <u>Manually s</u> pump to mandaty a discharge is achieve			105-1420. US Se Until cher	il whele sident - Are
comments <u>Manually s</u> pump to mandaty a discharge is achieved	NICE with SUGE BA		105-1420. US Se Until char	t whele section + - Are



## Well ID: MW-12A

Client: Pepco Project Name: Benning Road RI/FS Project Number: 60340344 Developer(s): B. Danicls, M. Barnett	Date: (2/9/).6	Time: Start <u> 336</u> Finish <u>1435</u>
<ol> <li>WELL CONSTRUCTION DATA         <ul> <li>a. Casing Diameter/Material <u>2" PVC</u></li> <li>b. Given Total Well Depth (TOC) <u>29.00</u></li> <li>c. Given Screen Interval (bgs) <u>9-29</u></li> </ul> </li> <li>WELL DEVELOPMENT DATA         <ul> <li>Well screen surged with surge block? (res) No</li> <li>Pump type(s) Whate</li> </ul> </li> </ol>	d. Measured Total Well Depth e. Measured Depth to Water ( <sup>-</sup> f. Well Volume (gal) <u>2</u> Well Volume (gal) = Wa (for 2'' well)	тос) <u>11.66</u>
Turbidity Meter (Make/Model/Serial Number)	La Motte IOZON	e 5/Nº 91/
Time       Volume       Turbidity       Time       Volume       Turbidity         (24 hr)       Removed       (NTU)       (24 hr)       Removed       (NTU)         1330       Start       Start <td>ne Volume Time Volume</td> <td>Time Volume Turbidity (24 hr) Removed (NTU)</td>	ne Volume Time Volume	Time Volume Turbidity (24 hr) Removed (NTU)
Total Volume Added Total Volume R Total Volume Removed >110% of Total Volume Adder Comments		Final Turbidity 9105 Didity <10 NTU? (red) No
Signature BOV	Da	ite <u>12/9/16</u>



Well ID: MW-23

ient: Pepco	Date:	12/9/1	6	Time	Start /	345
oject Name: Benning Road RI/FS	Date	<u> </u>		rine.	Start /	145
oject Number: 60340344						
eveloper(s): B. Daniels, M. Barn	11			3		See
WELL CONSTRUCTION DATA	· · · · · ·			1		经十进
a. Casing Diameter/Material PVC	d. Meas	ured Total W	ell Depth	(TOC)	46.07	2
b. Given Total Well Depth (TOC) 46.09	e. Meas	ured Depth t	o Water (1	TOC)	12.0	4
c. Given Screen Interval (bgs) <u>3영-낙6</u>	f. Well V	/olume (gal)		.55		
		Well Volur (gal)	ne <sub>=</sub> Wa	ater Col		nt [ft] (d - e)
WELL DEVELOPMENT DATA		(for 2" we	II)		x 0.1632)	
Well screen surged with surge block? Ye	No					
Pump type(s)						
and the second		1	7 8-0		5.44	1.01
Turbidity Meter (Make/Model/Serial Number	Lak	forte i	1022	ine	-/30	116
Time Volume Turbidity Time Volume 24 hr) Removed (NTU) (24 hr) Removed	Turbidity Time (NTU) (24 h	e Volume (r) Removed			Volume Removed	
345 Start Simae	(1110) (211		(	( )		
100 Start pump					298 J.A.	
100 Start pump 115 3Day 37D					2.1 2.2	
35 75 /8.1	S - 42		J			
140 8T 12.3 445 95 768	6.2.3			<u> </u>		
445 95 7.68	2 78 3					
		_				
			a harris	1.1		
Time Volume Time Volume Time Volur 14 hr) Added (24 hr) Added (24 hr) Adde			Volume Added	Time (24 hr)	Volume Added	
				( ,		
			_	-		
otal Volume Added Total Vol	ume Removed	93	F	Final Tu	rbidity	7.68
otal Volume Removed >110% of Total Volume	Added?	es / No	Final Turb	idity <1	0 NTU?	Yes / No
	$\mathcal{O}$					~
omments		_				
				_		
				100		
1			_		1-1	
anatura ()	/		Det	to	17 1911	~
gnature	/		Da	te	12/9/1	6



# Well ID: MW-13A

Client: Pepco Project Name: Benning Road RI/FS Project Number: 60340344 Developer(s): EDant 5	Date: <u> Z</u>	1 <i>8/16</i>	ime: Start <u>/235</u> Finish <u>/44</u>
<ol> <li>WELL CONSTRUCTION DATA         <ul> <li>a. Casing Diameter/Material <u>2" PVC</u></li> <li>b. Given Total Well Depth (TOC) <u>(8,38</u></li> <li>c. Given Screen Interval (bgs) <u>8-20</u></li> </ul> </li> <li>WELL DEVELOPMENT DATA         <ul> <li>Well screen surged with surge block? <u>Ves</u> No</li> <li>Pump type(s) <u>Vhale</u></li> </ul> </li> </ol>	e. Measured f. Well Volum Wa	Total Well Depth (T Depth to Water (TO ne (gal) <u>( (</u> ell Volume (gal) = Wate or 2'' well)	C) 10/ 06
Turbidity Meter (Make/Model/Serial Number)         Time       Volume       Turbidity       Time       Volume       Turbidity         (24 hr)       Removed       (NTU)       (24 hr)       Removed       (NTU)         (230       Start surge       1       1       1       1         (230       Start surge       1       1       1       1         (230       Start surge       1       1       1       1         (300       Start surge       1       1       1       1         (350       24       53       1       1       1         (400       33.5       1       1       1       1         (400       33.5       1       1       1       1         (400       33.5       1       1       1       1         (400       33.5       1       1       1       1         (410       21.0       1       1       1       1         (420       16.5       1       1       1       1       1         1440       50       9.87       1       1       1       1         1440       50	dity Time V J) (24 hr) Re	Volume Turbidity Temoved (NTU) (2	SN 916 Time Volume Turbidity 24 hr) Removed (NTU)
Inne       Volume       Volume	Added	(24 hr) Added (24	4 hr) Added al Turbidity <u>9,87</u> ity <10 NTU? (res)/ No



Well ID: MM-13B

Client: Pepco Project Name: Benning Road RI/FS Project Number: 60340344 Developer(s): 3 Dan (*15	Date: 12/8/16 Time: Start 1305 Finish 1345
<ol> <li>WELL CONSTRUCTION DATA         <ul> <li>a. Casing Diameter/Material <u>2" PVC</u></li> <li>b. Given Total Well Depth (TOC) <u>44.97</u></li> <li>c. Given Screen Interval (bgs) <u>38-45</u></li> </ul> </li> <li>WELL DEVELOPMENT DATA         <ul> <li>Well screen surged with surge block? Yes No</li> <li>Pump type(s) <u>Whale</u></li> </ul> </li> </ol>	
Time       Volume       Turbidity       Time       Volume       Turbidity         (24 hr)       Removed       (NTU)       (24 hr)       Removed       (NTU)         1305       Surge	La Motte 2020 wc       S/N: 9/6         dity Time Volume Turbidity Time Volume Turbidity (24 hr) Removed (NTU)       (24 hr) Removed (NTU)         Image: State of the state of t
Total Volume Added          Total Volume Added          Total Volume Removed >110% of Total Volume Added         Comments	Ahr)     Added     (24 hr)     Added       Ahr)     Added     (24 hr)     (24 hr)       <
Signature Barbara	Date 12/8/16



## Monitoring Well Development Record

1. WELL CONSTRUCTION DATAIn theFine 1a. Casing Diameter/Material2" PVCd. Measured Total Well Depth (TOC) $26.98$ $37.62$ b. Given Total Well Depth (TOC) $27.03$ e. Measured Depth to Water (TOC) $10.53$ c. Given Screen Interval (bgs) $7-27$ f. Well Volume (gal) $2.65$ Well Volume (gal) $2.65$ Well Volume (gal) $2.65$ Vell Volume (gal) $2.65$ $0.1632$	Client: Pepco Project Name: Benning Road RI/FS Project Number: 60340344 Developer(s): Daniel Hubert		Start <u>1325</u> Finish <u>1535</u>
Pump type(s)	<ul> <li>1. WELL CONSTRUCTION DATA <ul> <li>a. Casing Diameter/Material <u>2" PVC</u></li> <li>b. Given Total Well Depth (TOC) <u>27.03</u></li> </ul> </li> </ul>	e. Measured Depth to Water (TOC) f. Well Volume (gal) Well Volume (gal) = Water Colu	26.98 37.62 10.53 umn Height [ft] (d - e)
Time Volume Turbidity Time Volume (NTU)       (24 hr) Removed (NTU)       (24 hr) Removed (NTU)         1345       1377       1377       1377       1377       1377       1377         1320       1378       1378       1378       1378       1377       1377       1377         1321       1378       1378       1378       1378       1377       1377       1377         1321       1378       1378       1378       1378       1378       1378       1378         1321       1378       1378       1378       1378       1378       1378       1378         1321       1328       1378       1378       1378       1378       1378       1378         1511       1287       129	Pump type(s) (small)	La Moste 2020 use turbidim	
(24 hr)       Added       (24 hr)       Added	Time       Volume       Turbidity       Time       Volume       Turbidity         (24 hr)       Removed       (NTU)       (24 hr)       Removed       (NTU)         1345       Surge of Surge Succe       1       1       1       1         1430       Surge of Surge of Surge Succe       1       1       1       1         1430       Surge of	lity Time Volume Turbidity Time	Volume Turbidity
Total Volume Removed >110% of Total Volume Added? Yes No Final Turbidity <10 NTU? Yes No Comments <u>Manually surge Well scraw with surge Stock Rom 1345-1400.</u> <u>Rige farge with whele prop. Script and class, swimed - Are Nischerge</u> is achieved.			
SignatureDate 12/9/110	Total Volume Removed >110% of Total Volume Added Comments <u>Manucilly surge Wall screen</u> <u>Purgefsurge with whete proop</u> . Durich is achieved. <u>5 gets - Inn 30 Sec</u> 210 Seconds =	d? Yest No Final Turbidity <10 with surge stack from 1342 and class, sidemid - Are 1.43 gpm	NTU? (Yes)No 15-1400. Nischerge



### Well ID: MW-14B

### Monitoring Well Development Record

Client: Pepco Project Name: Benning Road RI/FS Project Number: 60340344 Developer(s): <u>Xanua Mubert</u>	Date:	12-[9]10	Time:	Start <u>1325</u> Finish <u>1535</u>
<ol> <li>WELL CONSTRUCTION DATA         <ul> <li>a. Casing Diameter/Material <u>2" PVC</u></li> <li>b. Given Total Well Depth (TOC) <u>56.85</u></li> <li>c. Given Screen Interval (bgs) <u>39-57</u></li> </ul> </li> </ol>	e. Meas	ured Depth to olume (gal)	Water (TOC) <u>7.0,2</u>	
2. WELL DEVELOPMENT DATA Well screen surged with surge block? Tes N Pump type(s) <u>Super Surger When Po</u>	np	(for 2" well)	d	lumn Height [ft] (d - e) x 0.1632)
Turbidity Meter (Make/Model/Serial Number)         Time       Volume       Turbidity       Time       Volume       Turbidity         (24 hr) Removed       (NTU)       (24 hr) Removed       (NTU)         1325       Surge of Surge Surge Surge       Surge Surge       (NTU)         1325       Surge of Surge Surge       Surge Surge       (NTU)         1425       Fund Surge       Surge       (NTU)         1425       Fund Surge       (NTU)       (Surge         1455       Time       (Surge       (Surge         1510       150.5       Time       (Surge         1510       150.5       Time       (Surge         1510       150.5       Time       (Surge         1510       Surge       (Surge       (Surge         1510       Surge       (Surge       (Surge         1510       Surge       (Surge       (Surge         1510       Surge       (Surge       (Surge         1510       Surge       (Surg	oidity Time	e Volume T	urbidity Time	Volume Turbidity
Time Volume Time Volume Time Volume (24 hr) Added (24 hr) Added (24 hr) Added (2				Volume Added
Total Volume Added       NA       Total Volume         Total Volume Removed >110% of Total Volume Add         Comments       Manually surge used served         Surge pourse       with while pump         Surge pourse       with while pump         Itscharged       is activity         1447.20       1450.15       175 seconds	ded? Ye	NA STNO F	inal Turbidity <1	urbidity 7.65 10 NTU? Yes / No 25-13240 2000007 - 892-



Monitoring Well Development Record

Client: Pepco	Date:	12/9/10		Time:	Start	1935
Project Name: Benning Road RI/FS		-44			Finish	
Project Number: 60340344	1					
Developer(s):						
1. WELL CONSTRUCTION DATA					24	in the second
a. Casing Diameter/Material _ 2" PVC	d. Meas	ured Total We	ell Depth (	TOC)	38.1	3
b. Given Total Well Depth (TOC) 38.19	e. Meas	ured Depth to	Water (T	OC)	16:	52
c. Given Screen Interval (bgs) <u> </u>	f. Well V	/olume (gal) Well Volum	<u>کر جحر</u> او او	3 gan ter Col	lon_s Iumn Heid	ht [ft] (d - e)
2. WELL DEVELOPMENT DATA		(gal) (for 2" well			x 0.1632	)
Well screen surged with surge block? (Yes) No	5					
Pump type(s) What - Ring (sonall)						
				1.8		1.17.
Turbidity Meter (Make/Model/Serial Number)	LaMorte	2020 6	12 trobe	liget	or line	# 03402
Time Volume Turbidity Time Volume Turbi (24 hr) Removed (NTU) (24 hr) Removed (NT	idity Time	e Volume	Turbidity	Time	Volume	Turbidity
1005 Succe and suge black			(1110)	(2-111)		
1025 Suze Raze 41 ashele pump				1.0		131 V A 24
1620 Rice aly				1.4		
1140 All pro 2' at biston 1152 145 134	_	+				1.01 19
1210 175 72.2				1.23	1.05 17	
1222 1 252	1			.1	15.00	11.6.1
1240 225.5 8-75		+				
						-5.
Time Volume Time Volume Time Volume T				Time	Volume	
(24 hr) Added (24 hr) Added (24 hr) Added (2	4 hr) Add	ded (24 hr)	Added (	24 hr)	Added	1
					-	
	-		-			
Total Volume Added Total Volume	Removed		F	inal Tu	rbidity	- 210
Total Volume Removed >110% of Total Volume Add	ed? Ye	s/No F	Final Turbi	dity <1	0 NTU?	Yes / No
	-					
Comments _ Surge and with Surge Sheek	from	1005-10	020. C	lor ge	purge	with
Whate pump. Dwitch well until days	Sidimany	+ - Are dis	charge 1	<10	NTC).	
				_		
Scallens -> 3 minutes, 180 mouths	= 1.6	7 ann				
		4				
Signature Annh			Dat	e	12/9/	4
					/	
////.30						



Well ID: MW-153

## Monitoring Well Development Record

roject Na		Benning F 60340344		FS	Da	ate:	2/9/16	,	Time:	Start Finish	
		Mariel 1		-						ulti I H	126
WELL	CONST	RUCTION	DATA							La.pll	Find
a. Casi	ing Diar	meter/Mate	erial _2"	PVC	d.	Measu	red Total V	Vell Depth	(TOC)	59.93	59.95
b. Give	en Total	Well Dept	h (TOC)	60	e.	Measu	red Depth t	o Water (1	-OC)	18.9	6
c. Give	en Scree	en Interval	(bgs)	50-60	f. \	Well Vo				1	1-1-44
							Well Volui (gal)	<sup>me</sup> <sub>=</sub> Wa	ater Co	lumn Heigl	nt [ft] (d - e)
WELL	DEVEL	OPMENT	DATA				(for 2" we			x 0.1632)	
Well so	creen si	urged with	surge bl	ock? (Ye	No						
Pump	type(s)	de	200.00	a lihel	Burg				*		
				e what							3 . 3.4
Turbidi	ity Mete	r (Make/M	odel/Ser	ial Numbei	)	Mit	20200	ve trobi	dinit	ar fi	n# 0340
	/olume			Volume Removed							
4 hr) Re 940 _		(NTU)	<u>,                                    </u>		(110)	(24 11)	Removed		(24 11)		
01 0	Regel F	ise al	shell p	mp				1	1		
18 1	Pige	inly	-		-	-			1.0		
38 1	21.25	23.3	- Det					a	1.7	Maria Ind	1.00 1 3
149 1	135	16.5			-		1	-			
205 1	155	9.75									
				⊡ime Volu 24 hr) Add					Time (24 hr)	Volume Added	
otal Volu omment	ime Rer ts <u>A</u>	moved >11	0% of T	Total Vo otal Volum	e Added?	Yes	7No	Final Turb	oidity <′	IO NTU?	Yes) No
1.25	gpm_										
		. /	A	1						10101.	
ianatura		dis	Mar					Da	to	1219116	