

 Well Number:
 FMW 84

 Start Date:
 10/14/09

 Start Time:
 0955

 Well Casing Diameter (in):
 2
 Well TD:
 1/5

 Bore Hole Diameter (in):
 8
 Well DTW:
 99.25

 Annular Space (AS) Length (ft):
 17
 Water Column:
 15.75

 Screened Interval (ft bgs):
 100 - 1/5
 Pump Intake (ft bgs)

## WELL VOLUME CALCUATION

Gallons per foot of annular space (from chart on back)	=	0.73
Column of water or length of AS (whichever is less)	X	15.75
Volume of water in AS (gal)	=	11.5
Gallons per foot of casing (from chart on back)	= (	0,1632
Column of water	X	15.75
Volume of water in casing (gal)	= [	2.57
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	=	14.1
Number of EV to be purged	X	3
TOTAL VOLUME TO BE PURGED (gal)	=	42.3
ACTUAL VOLUME PURGED (gal)	=	8

Method of Purging: BENNETT PUMP

Field Parameters		10	114/09		Reading	10/23	
Time	0955	1000	1004	1010	1020	0930	Final
Volume (gal)	INITIAL	3	5	7	8		Sample
Flow Rate (gpm)							N/A
DTW (ft toc)	99.25				113,20	110.10	
рН	6.89	7.10	7.44	7.65			
Conductivity (ųS/cm)	1250	1250	1245	1246			
Temperature (°C)	13.22	13.07	1320	13.62	27		
Turbidity (NTU)	7.76	10.23	115.7	19.70	583		
Eh/Redox (mV)					33		
DO (mg/L)	0.61	0.34	0.27	0.24			

## **Purging Field Notes:**

PUMPED W	IELL	DRY,	ALLO	WED TO	RE	CHAR	GE	THEN	SAMF	LEL	).	
REMOVED	ONL	4 21	. OF	WATER	BE	FORE	SAM	PLING	DUE	70	LIMITED	
QUANITY	OF U	VATER.	WELL	STARTED	70	DRY	DUR	ING F	INAL	SA	MPLE COLLECT	TON

Sample Date/Time:

10/27/09 0835 Freehick & Belleuret Sample ID/TR#: EMW041009

Sampler's signature/date:

		Well Number: Start Date: Start Time:	FW 35 10/16/09 1027
Well Casing Diameter (in): Bore Hole Diameter (in): Annular Space (AS) Length (ft): Screened Interval (ft bgs):	22 12,15 - 32,15	Well TD: Well DTW: Water Column: Pump Intake (ft bgs)	32.15 19.43 12,72
WELL VOLUME CALCUATIO	N		
Gallons per foot of an	nular space (from chart on back)	= (7),	59
Column of water or le	ngth of AS (whichever is less)	x /2	1.12
Volume of water in As	([[]])		

Gallons per foot of annular space (from chart on back)		0
	= 0	
Column of water or length of AS (whichever is less)	X	12.72
Volume of water in AS (gal)	=	7,51
Gallons per foot of casing (from chart on back)	=	0.6528
Column of water	X	12.72
Volume of water in casing (gal)	=	8.3
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	1 = 1	15,81
Number of EV to be purged	X	3
TOTAL VOLUME TO BE PURGED (gal)	=	47.43
ACTUAL VOLUME PURGED (gal)	=	14.0
Method of Purging:		27.8

Field Parameters	Reading								
Time	1027	1029	1031	1033	1035	1037	1039		Final
Volume (gal)	INITIAL	5-105-	5	8	10	12	14		Sample
Flow Rate (gpm)						12			N/A
DTW (ft toc)	19,43								I IVA
рН	7,19	7.07	6.84	6.78	6.82	6.86	6.88	*	
Conductivity (ųS/cm)	4230	412)	3 990	3920	4050	4180	4210		
Temperature (°C)	11.94	11.90	12.09	12.14	12,02		11.94		
Turbidity (NTU)	2574	716	75.6	37.9	25.2				
Eh/Redox (mV)		100				15 0.10			
DO (mg/L)	0.13	D. 13	0.13	0.13	0.13	0.12	0,14		

**Purging Field Notes:** 

PURGED W/12 V PUN	AP. UNTIL DRY.	AFTER	RECHARGE
COLLECT SAMPLE	and the same of th		
CO-CRE SIII ILIE	W/ BATERY.		

^		D	-
Sam	nia	1 lata/	Time:
oam		Date	I IIII C.

Sampler's signature/date:

Reviewer's signature/date:

Sample ID/TR #:

FW35102009

			J		Well Numl Start Date Start Time	:	FV 10-	V18 -24-0	7
Well Casing Diameter (Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bg	): ngth (ft):				Well TD: Well DTW: Water Column: Pump Intake (ft bgs)				
WELL VOLUME CA	CUATION	N							
Column of Volume of Sallons per Column of Solumn of Total Vo	water or len water in AS r foot of cas water water in cas VALENT VO EV to be pu	ing (from ch sing (gal) DLUME [EV]	hichever is art on back)	less)	= X = X = X = X = = X				
Method of F		riolo (gai)			_		,	-	
Field Parameters					Reading				
Time									Final
Volume (gal)									Sample
Flow Rate (gpm)		Charles See all File							N/A
DTW (ft toc)									IN/A
рН									
Conductivity (ųS/cm)									
Temperature (°C)									
Turbidity (NTU)									
Eh/Redox (mV)									
DO (mg/L)									
Purging Field Notes: West was Sample a	previ	ously	bail an d	led d	ry:	011	octed	perch	lovase
Sample Date/Time: Sampler's signature/c		10-2 Gry Mili	4-09 ant K	010/20	10-24-	Sample ID	/TR#: <b>/</b>	W18/16	2009

 Well Number:
 FLD 31

 Start Date:
 IO/IG/09

 Start Time:
 I/40

 Well Casing Diameter (in):
 Well TD:
 \$2.00

 Bore Hole Diameter (in):
 Well DTW:
 41.33

 Annular Space (AS) Length (ft):
 22
 Water Column:
 IO/67

 Screened Interval (ft bgs):
 I2-52
 Pump Intake (ft bgs)

### WELL VOLUME CALCUATION

Gallons per foot of annular space (from chart on back) = 0.59

Column of water or length of AS (whichever is less) X /0.67

Volume of water in AS (gal) = 6.30

Gallons per foot of casing (from chart on back) = 0.6528

Column of water X /0.67

Volume of water in casing (gal) = 6.91

ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) = /3.27

Number of EV to be purged X 3

TOTAL VOLUME TO BE PURGED (gal) = 30.61

ACTUAL VOLUME PURGED (gal) = /0

Method of Purging: 12 V PUMP

Field Parameters	Reading								
Time	MANTIAL	1142	1143	1146	1149	1153	1200		Final
Volume (gal)	INITIAL	2	3	5	7	9	10		Sample
Flow Rate (gpm)									N/A
DTW (ft toc)	41.33						WELL	WENT	1
рН	7.80	8.13	8. 25	8.28	8.32	8.39	DRY		/
Conductivity (ųS/cm)	235	235	234	235	235	235	C-23	50,0	
Temperature (°C)	12.95	12.66		12.65	12.67	12.78			
Turbidity (NTU)	69.6	6.32	3.44	8.59	10.5	12.8			
Eh/Redox (mV)									
DO (mg/L)	0.19	0, 15	0,14	0, 13	0.12	0.10			

Purging	 	

PURGED	WELL	DRY WITH	12 V PUN	OP AFTER	RECHARGE
SAMPLE	D W17	H BAILER	2		

Sample Date/Time:

Sampler's signature/date:

Reviewer's signature/date:

10/21/2009 1430 Freding 9. Italiand Sample ID/TR #:

FW31102009

Well Casing Diameter (Bore Hole Diameter (in	WELL SAMPLING DATA FORM  Vell Casing Diameter (in): Gore Hole Diameter (in): Sorre Hole Diameter (in): Sorreened Interval (ft bgs):  33.6-53.6					per: : :	MWO\  1626 54.66  E no			
Vell Casing Diameter (in): Dore Hole Diameter	6-53,6	ō	Pump Intak				well w			
Column of Volume of Sallons per Column of Volume of Volume of Number of TOTAL VOACTUAL Volume of Volume of Column of	water or len water in AS r foot of cas water water in cas VALENT VC EV to be pu LUME TO E OLUME PU	gth of AS (w (gal) ing (from ch sing (gal) DLUME [EV] arged BE PURGED	whichever is I art on back) (AS + casin	ess)	= X = X = X = X = = X	4	gal	pro du	bailed w was corded eviously extober ring was vel measure -M	
Field Parameters					Reading					
Time	1626	1629	1632	1635	1638	1739			Final	
Volume (gal)	1.0	1.5	2.0	2.5	3.0	4.0			Sample	
Flow Rate (gpm)							141		N/A	
DTW (ft toc)										
pH	7.46	7.66	7.68	7.60	7.63					
Conductivity (ųS/cm)	3600	3598	358	3560	3560					
Temperature (°C)	15.06	14.71	14.69	14.60	14.58					
Turbidity (NTU)	496.2	389.4		397.0				45		
Eh/Redox (mV)										
DO (mg/L)	3 20	3.29	210	2.75	2 94				v	

3.2	0 3.24 3.10 2.75	2-94	
Purging Field Notes:	Al dry collected.	n 40 gal an 10/13/09	
	V		.4
Sample Date/Time: Sampler's signature/date: Reviewer's signature/date:	10/13/09 -not sampled of MithMat 10/23/	Sample ID/TR#:	

			_		Well Num Start Date Start Time	e:	MW 101	22/0	9	
Well Casing Diameter Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bo	n): ength (ft):			_ _ _	Well TD: Well DTW: Water Column: Pump Intake (ft bgs)					
WELL VOLUME CA	LCUATION	٧					-		-	
Gallons pe Column of Volume of Gallons pe Column of Volume of ONE EQUI Number of TOTAL VO	r foot of ann water or len water in AS r foot of cas water water in cas VALENT VC EV to be pu LUME TO E	nular space agth of AS (v (gal) sing (from ch sing (gal) DLUME [EV urged BE PURGED		e less)	= X = X = X = X = = X		<b>\</b>			
Method of F	rurging :		alev		Reading					
Time			Т	T	neading	T	1	T	T	
Volume (gal)			1				-		Final Sample	
Flow Rate (gpm)									N/A	
DTW (ft toc)									N/A	
pH										
Conductivity (ųS/cm)					1					
Temperature (°C)										
Turbidity (NTU)										
Eh/Redox (mV)										
DO (mg/L)										
Purging Field Notes:	CON	plex	Sa.ly D	mple	Sof wod.	w	bailei	-, Pa	rape	
Sample Date/Time: Sampler's signature/d Reviewer's signature/d		10/22 Gr Mi	109 ant K	093 Old 10/23/0	0 [0-22 -	Sample IE	)/TR#: <b>/</b> \	NW2110	02009	

WELL SAMPLI	NG DATA	FORM							
		~			Well Numl Start Date Start Time	:	M13	_	
Well Casing Diameter		2		_	Well TD:		49.	33	
Bore Hole Diameter (in	*	- 4	^	3	Well DTW:				_b not
Annular Space (AS) Le Screened Interval (ft be	1770 P. C.	25	117	_	Water Colu Pump Intal		47	2,5	- recorde
	T-120		9/	_	rump imar	re (it bgs)	4/	2.5	- at this
WELL VOLUME CA	LCUATIO	N						1.	11-000 F
Gallons pe	er foot of anr	nular space (	from chart	on back)	=			ti	ine, reco
Column of	water or ler	ngth of AS (w	hichever is	less)	X			-	aring oct
Volume of	water in AS	(gal)			=				. )
Gallons pe	er foot of cas	sing (from ch	art on back	()	=			wa	ifer level
Column of					X			m	easureme
	water in cas				=			- \\/	ell was
		OLUME [EV]	(AS + casi	ng, gal)	=				10.00
	EV to be pu	1.5			X			- V	sailed di
		BE PURGED			=			- 1	11.
ACTUAL V	OLUME PU	IRGED (gal)		1	=		gal	-	-ML
Method of	Purging:		h	and ba	iler			<u></u>	
Field Parameters					Reading				
Time	1535	1539	1541	1545					Final
Volume (gal)	.5	.5	-5	.3					Sample
Flow Rate (gpm)									N/A
DTW (ft toc)									1
pH MLM	6.86	7.00	7.01	7.00				nun	
Conductivity (ųS/cm)	2.43	134 TX	2.45	(2.45	- 24	50	De	-	
Temperature (°C)	15,93	14.96	14.94	14.80					
Turbidity (NTU)	621.6	1092	>1100	≥)100					
Eh/Redox (mV)		1012	1,-0	1					
DO (mg/L)	3.32	3.42	3.00	3,34					
Purging Field Notes:					11				
Pungs wel	l dry	on 10/1	3, coll	ected n	2.0gal				
Sample Date/Time:			not	sample	1	Sample IE	)/TR #·		
			Acc.	JUNION IC	_0	Jumpio IL	er I I I IT		

Sampler's signature/date: Reviewer's signature/date:

## WELL SAMPLING DATA FORM Well Number: Start Date: Start Time: Well Casing Diameter (in): Well TD: Bore Hole Diameter (in): Well DTW: Annular Space (AS) Length (ft): Water Column: Screened Interval (ft bgs): Pump Intake (ft bgs) WELL VOLUME CALCUATION Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) X Volume of water in AS (gal) Gallons per foot of casing (from chart on back) Column of water X Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) Number of EV to be purged X TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal) Method of Purging: Field Parameters Reading Time Final Sample Volume (gal) Flow Rate (gpm) N/A DTW (ft toc) рН Conductivity (uS/cm) Temperature (°C) Turbidity (NTU) Eh/Redox (mV)

Purging Field Notes:	complete sample set w bailer. Parameters
had been ,	Oreviously measured.
Sample Date/Time:	10/23/09 0830 Sample ID/TR#: MWQ2/02009
Sampler's signature/date: Reviewer's signature/date	211. 4 111 1

DO (mg/L)

Hope								1000 114		
			ACTIVITY			Well N	lumber:	Mi	N 03	>
LOW	FLOW V	VELL SAM	PLING DAT	TA FOR	М	Start I	Date:	_/6	0-23	-09
	9		n			Start T	Time:	12	35	
	asing Dian	80.00				Well T	D:	50	6.2	29
	ole Diamet		: 12			Well D	.F 1844	48	5.90	
	ed Interval	S) Length (ft)					Column:	10	30	_
Serecin	ou finter var		LUME CALC	HATION		Pump I	ntake (ft b	gs): <u>54</u>	2	-
			foot of annula		om chart	on back)		= ^	73	
		Column of	water or length	of AS (w	hichever	is less)		X /	5.3	7.3
			water in AS (g					= 7	52	
		Column of	foot of casing water	(irom ena	rt on bac	K)		= <u>O. /</u>	163	-0
		Volume of	water in casing					= 1	68	-
		ONE EQUI	VALENT VO	LUME [E	V] (AS +	casing, gal	1)	= 3	,2	-
Method	of Purging		OLUME PUR	177	.50			=	75	-
		-	_10w		W			22		_
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond.	Temp.	Turbidity	Redox	DO
1255	0	60	O C	46.08	_	(μS/cm) 4960	(C)	(NTU)	(mV)	(mg/L) 4.15
1300	5	60	0.3	46.10	7.29	5340	14 29	1.51		2.30
1305	10	60	0,6	46.11	7.28	5420	14.26	1,22		1.88
1310	15	60	0.9	46.12	7.27	5440	14.11	1.12		1.72
1315	20	60	1.2	46.12	7.28	5440	14.23	1.13		1.61
1320	25	60	1.5	46.12	7.28	5430	14,33	0.73		
1325	30	60	1.8	46.12	7.28	5410	14.37	0.71		1.60
1330	35	60	2.1	46.12	7.28	5/00	14,35	0.62		1.57
1335	40	60	2.4	46.12	7.28	5390	14,28	0.42		1,53
1337		60	2.52	48.12	7.28	5380	14.29	1.18		1.51
1339	44	60	2.64	46.12	7.28	5370	14.33	· <u>·</u>		1.53
1340	45	60	2.7	46.12	7.28	5380	14,38	0.61		1,52
luic				111 10						
1415				46.12	· · · · · · · · · · · · · · · · · · ·	7				
1505				76.13	- 1	inal	way	en la	nel	
Purging	Field Notes	S: Very	clear u	vater	,			0		
Pross	= 30	12 , 2g	clear u	55500	, Ri	ugo >	5 se	c, f	DW 3	60 M
		, ,			,	0				
Sample 1	Date/Time:	16/23/0	9 1409	Sample	ID/TR #	· MW	123/10	2009		

Sample Date/Time: 10/23/09 149 Sample ID/TR #: MW & 3/02009
Sampler's signature/date: Frank Folk 10-23-09
Reviewer's signature/date: Mat/Mat/ 10/23/09

FORT WINGATE DEPOT ACTIVITY LOW FLOW WELL SAMPLING DATA FORM	Well Number:	MW 20
?	Start Date: Start Time:	16-23-09 0830
Well Casing Diameter (in):	Well TD:	59,4
Bore Hole Diameter (in):	Well DTW:	44.88
Annular Space (AS) Length (ft):/2	Water Column:	14.52
Screened Interval (ft bgs):	Pump Intake (ft bgs	57.37
WELL VOLUME CALCUATION		1 5-1
Gallons per foot of annular space (from char	t on back)	= 0,73
Column of water or length of AS (whichever	r is less)	x /2
Volume of water in AS (gal)		= 8.76
Gallons per foot of casing (from chart on bac	ck)	= 0.163
Column of water		x 14.52
Volume of water in casing (gal)		= 2.37
ONE EQUIVALENT VOLUME [EV] (AS -	+ casing, gal)	= 11.13
ACTUAL VOLUME PURGED (gal)		= ///
Method of Purging:   low flow		

Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
	Elapsed	(mL/min)	Volume (L)	(ft toc)	pН	(µS/cm)	(C)	(NTU)	(mV)	(mg/L)
0855	0	60	6	45,04	6.90	19400	11.98	20,92		3.46
0900	5	60	0.3	45.10	684	18900	12.20	16.17		2.14
0905	10	65	0.6	45.10	684	18800	12.52	11.46		1.82
0910	15	70	0.925	46.10	684	18700	13.12	7.82		1.66
0915	20	70	1.275	45.10	6.84	1870	13.06	5.84		1.61
0920	25	70	1.625	45,11	)	-		3.91		
0925	30	70	1,975	45.11	6.85	18800	13.32	5.47		1.52
093	35	70	2,325	45.12	6.86	18800	_	5,17		1,37
0935	40	70	2.675	45.12	6,86	18900	13.41	5.59		1,26
0940	4.5	70	3.025	45.12	6.86	18900	13.62	4.73		1,20
0945	50	70	3,375	45.12	6.87	19000	13.69	4.62		1.17
0950	55	70	3.725	45.12	6.87	19000	13.99	3.88		1.13
6952	57	70	3.864	45.12	6.87	19100	13.96	2.82		1.13
6954	59	70	4,004	45.12	627	1900	13,81	4.30		1,14
1100				45.12		4	100-	Just		
1225				45,12	= 4	inalu	over	level		

Purging Field Notes: Very clear water
Rech = 60 sec, surco = 6 soc, pross = 40 psi, flow = 70-75 m1/mi
w Stable grandown
Sample Date/Time: 10-23-09 1900 Sample ID/TR #: MW20102009
Sampler's signature/date: Sratkolo 10-23-09

WELL SAMPLI	NG DATA	FORM			Well Numb Start Date: Start Time	3505 U	TH	UZZS W-08 Od-09	15
Well Casing Diameter Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft be	n): ength (ft):	2 8 12 31-		-	Well TD: Well DTW: Water Colu Pump Intak	ımn:	36	4+ 43 65-41. 76	528
WELL VOLUME CA	LCUATION	I							
Column of Volume of Gallons pe Column of Volume of ONE EQUI Number of TOTAL VO	water in cas VALENT VC EV to be pu DLUME TO B	gth of AS (w (gal) ng (from cha ing (gal) DLUME [EV] rged E PURGED	hichever is art on back) (AS + casin	less)	= X = X = X = X	0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.73 .76 29 163 29 .21 50 3		
Field Parameters					Reading				
Time	1245	1770	1775						Final
Volume (gal)	12 11 3		1200						Sample
Flow Rate (gpm)				/	(				N/A
DTW (ft toc)			5	0	1-10	*			
рН	691	7.37	7.41	HON	low	U			
Conductivity (ųS/cm)	499n	1711	1-1-14	1	1 all	P			
Temperature (°C)	1605	1506	1617		V				
Turbidity (NTU)	16,87	210.8	1271						
Eh/Redox (mV)	WOLO L	20.0	1711						
DO (mg/L)	52L	468	5.66						
Purging Field Notes:	d dry	- (·(b()	7.00		4	r a		0	
								2 3	
Sample Date/Time: Sampler's signature/o	date:	1249 CADIA	Puro	190	cT 200	Sample II	D/TR #:	MW22	Slozot

					Well Numb		M	WZZ	S
					Start Time:			081	0
Well Casing Diameter (i Bore Hole Diameter (in) Annular Space (AS) Ler Screened Interval (ft bg:	gth (ft):			1	Well TD: Well DTW: Water Column: Pump Intake (ft bgs)				
WELL VOLUME CAL	CUATION								
Column of v Volume of w Gallons per Column of v Volume of w ONE EQUIV Number of E	vater in casino /ALENT VOL EV to be purg LUME TO BE	h of AS (whi al) g (from char g (gal) UME [EV] (/ ed PURGED (	ichever is les t on back) AS + casing,	ss)	= X = X = X = X = X				
ACTUAL VC					=	(	<u> </u>		
ACTUAL VC		bai	101					_	
Method of P		bai	101		Reading			_	- "
Method of P		bai	101						Final
Method of P		bai	ler						Final Sample
Method of P Field Parameters Fime Folume (gal)		bai	lor						
Method of P Field Parameters Fime Folume (gal) Flow Rate (gpm)		bai	lor						Sample
Method of Prield Parameters  Fime  Flow Rate (gpm)  OTW (ft toc)		bai	lor						Sample
Method of P Field Parameters Fime Folume (gal) Flow Rate (gpm) OTW (ft toc)		hai	lor						Sample
Method of P Field Parameters Fime Flow Rate (gpm) OTW (ft toc) OH Conductivity (ųS/cm)		hai	101						Sample
		bai	101						Sample
Method of P Field Parameters Fime Flow Rate (gpm) OTW (ft toc) OH Conductivity (ųS/cm) Femperature (°C)		hai	101						Sample

Sample Date/Time:

Sampler's signature/date: Reviewer's signature/date:

Sample ID/TR #: MW225/02009

					Well Number	er:		225	,
					Start Date: Start Time:		10	0-21-09 0800	
Well Casing Diameter (Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bg	): ngth (ft):	2		-	Well TD: Well DTW: Water Colur Pump Intake	mn:			
WELL VOLUME CAI	CUATIO	V							
Gallons per	foot of anr	nular space	(from chart of	on back)	=				
Column of	water or len	igth of AS (	whichever is	less)	X			_	
Volume of	water in AS	(gal)			=				
Gallons per	foot of cas	ing (from cl	hart on back)		=			_	
Column of					X				
Volume of					= _			_	
			] (AS + casir	ng, gal)	= .				
Number of			5 / 1		Χ .				
TOTAL VO			(175) 197		= .		0	_	
Method of F			iler		= .		Χ		
Field Parameters					Reading				
Time									Final
Volume (gal)									Sample
Flow Rate (gpm)									N/A
DTW (ft toc)									
pH									
Conductivity (ųS/cm)									
Temperature (°C)									
Turbidity (NTU)									
Eh/Redox (mV)									
DO (mg/L)									
Purging Field Notes: Paramete	part h	tial.	Samp been	le s	ot up	1	ell	baile .	1 dz
Sample Date/Time: Sampler's signature/o Reviewer's signature/		10 /21/ Sri	109 Cant 1/2	1236	- J0/21/0	Sample ID	/TR #:	MW225	10300

			_		Well Number: Start Date: Start Time:	MW 10-	125 -22-09 755
Well Casing Diameter ( Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bg	): ngth (ft):				Well TD: Well DTW: Water Column: Pump Intake (ft bgs)		
WELL VOLUME CAI	CUATION	I					
Gallons per	foot of ann	ular space	(from chart or	n back)	=		
Column of	water or leng	gth of AS (v	whichever is le	ess)	Χ		_
Volume of v	water in AS	(gal)			=		_
		ng (from ch	nart on back)		=		_
Column of					Χ		_
	water in casi				=		_
			] (AS + casing	g, gal)	=		-
	EV to be pu				Χ		-1
	LUME TO B				=	h	<b>-</b> 3
Method of F	OLUME PUR Purging :		ailer		= -	4	_
Field Parameters					Reading		
Time							Final
Volume (gal)							Sample
Flow Rate (gpm)							N/A
DTW (ft toc)							
рН							
Conductivity (ųS/cm)							
Temperature (°C)							
Turbidity (NTU)							
Eh/Redox (mV)							
DO (mg/L)							
Purging Field Notes: Paranete	rem is ho	air c	er o	f so	ample se		th a baile
Sample Date/Time: Sampler's signature/d Reviewer's signature/	,	10/26 In	of 09 0 ant KO	0800 10 1	Sample (2) [22] [29]	ID/TR #: 🎢	W22S10200

FORT WINGATE DEPOT ACTIVITY	Well Number:	Mw 22D
LOW FLOW WELL SAMPLING DATA FORM	Start Date:	10-21-09
0	Start Time:	0840
Well Casing Diameter (in):	Well TD:	58,77
Bore Hole Diameter (in):	Well DTW:	41.37
Annular Space (AS) Length (ft): 12	Water Column:	17.40
Screened Interval (ft bgs): 47–57 WELL VOLUME CALCUATION	Pump Intake (ft bgs):	56.1
Gallons per foot of annular space (from cha	rt on back) =	0.73
Column of water or length of AS (whicheve	er is less)	12
Volume of water in AS (gal)	=	8,76
Gallons per foot of casing (from chart on ba	nck) =	0.163
Column of water	X	17:40
Volume of water in casing (gal)	=	2.84
ONE EQUIVALENT VOLUME [EV] (AS	+ casing, gal) =	11.60
ACTUAL VOLUME PURGED (gal)	10000000 1000	2.8
Method of Purging: On How		

Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
	Elapsed	(mL/min)	Volume (L)	(ft toc)	рН	(µS/cm)	(C)	(NTU)	(mV)	DO (mg/L)
0900	0	90	0	41.47	_	8200	13.50	4.77		3.76
0905	5	90	0.45	41.47	7.32	8050		320		2.61
0910	10	100	0.95	41.48	7,32	6690	13.75	2,45		2.29
0915	15	100	1,45	41.48	7,32	6340	13.75	0.90		2.20
0920	20	100	1.95	41.48	7.32	6120	13.78	1,81		1.95
0925	25	100	2,45.	41.48	7.31	6000	1385	3.60		1.73
0930	30	100	2.95	41.50	7.31	5900	13.79	1,11		1.60
0935	35	100	3,45	41.50	7.32	5910	13.85	1.58		1.45
0740	40	100	3.95	41,50	7.32	5770	13.90	0.89		1.37
0945	45	100			-			0.82		1.26
0250	50	100	4.95	41.50	7.32	5660	13.96	1.05		1.20
1000	60	100	5.95	41.50	7.32	5570	14.03	0.21		1.11
1005	65	100	6.45	41,50	7.32	5520	14.08	1.74		1.11
1010	70	100	6.95	41,30	7,33	5480	14.03	0.38		1,04
1015	75	100	7,45	41.50	7,33	5450	14.13	0.86		0.99
1020	80	100	7.95	49.50	7,33	5410	14.04	0.15		0.95

Purging Field Notes: Degan purging at 0855, Pross = 40Asi, Tech = 30 sec Jurgo - 4 Sec. How rate = 90 M/Min. Increased purgo to 4.5 soc. I DW IN CROSSED TO 100 MINION. Drawdown increased slightly, but stabilized Sample Date/Time: 16/21/09 1100 g Sample 10/TR #: Mw22 N/02009 a Fw22/02009 Sampler's signature/date: Scant told 10-21-09 (blind class) Reviewer's signature/date: Mathet 10/23/09 Very clear water During Sampling, purgo was increased to 6 sec, Flow increased to

page 2 of 2

			CACTIVITY		Well N	umber:	ML	0221	D		
LOW	FLOW W	VELL SAM	PLING DAT	ΓA FORM	M	Start D	ate:	-21	-09		
						Start T	ime:	0	840		
	asing Diam					Well T	D:	2.2			
	ole Diamet					Well D	TW:	2000 AND 10110		_	
		S) Length (ft)	:				Column:			_	
screene	ed Interval		LUME CALC	HATION		Pump I	ntake (ft b	gs):			
			foot of annula		om chart	on back)		=			
		Column of	water or length	n of AS (w	hichever	is less)		X		- 15	300
			water in AS (g		•	resco		=		_ /	pag
		Column of	foot of casing	g (Irom cha	rt on bac	K)		 X		- (	,
			water in casing	g (gal)						- (	
		ONE EQUI	VALENT VO	LUME [E	V] (AS +	casing, gal	)	=		-	)
Mathad	of Domein		OLUME PUI	( )))				=			100
	of Purging	<u> </u>	180	4100	U				- Pariet	-	
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)		Cond.	Temp.	Turbidity	Redox	DO	ı
1025	85	100	8,46	41,30	7.33	(μS/cm) 5400	(C) 14:05	(NTU)	(mV)	(mg/L)	
000	87		8.65	111/2	7722	5700	14:00	4 4		0.94	
04/	29	100	-	17:50	1/33	5370	14,10	0.55		0,93	
227	07	100	8.85	4,50	"/, 3	5380	14,10			0.92	
23/	91	100	9.05	44.50	7.33	5370		0,		0.92	
35	95	100	9,45	41,50	7.33	5350	14.16	0.48		0,91	
237	97	100	9.65	41,50	7.33	5340	14.13	6.37		0.91	
240	100	100	9,95	41.50	7.34	5330	14.09	0.13		0,89	
42	102	100	10.15	41,50	7.34	53%		0.64		0,88	
44	104	100	10.35	41.50	7.34	5330	14.12			0.90	
300	,			41.52			7.70			0170	
500				41.50							
550				41,50	= 4	2 - ( )	1-10-	10.10	1		
				11,00	- 7	11911	Ja er	leve,	41	-	
				-							
Purging	Field Note	s:									
							2				
								Control of the Contro			
Sample	Date/Time:			Sample	e ID/TR i	#:			part week ex		
Sampler	's signature	/date:	47					37			
Reviewe	er's signatur	e/date:									
			William Community of the State of			- CH		a care or till year			

	FORT WINGATE DEPOT ACTIVITY LOW FLOW WELL SAMPLING DATA FORM						Well Number: 6 MW 67				
LOW	FLOW V	VELL SAM	PLING DAT	A FORM	И	Start D	ate:	160	oct t	009	
						Start T	ime:	151	17		
	asing Diam		_2			Well TI	D:	10	8.4	,	,
	ole Diamet		_8			Well D	TW:	71	0133	Ston	7
		S) Length (ft)	: 17			Water C			35.0	2	00
Screen	ed Interval		93-10 LUME CALCI	UATION		Pump I	ntake (ft b	gs): 166.	4)	- We	t Il was ged on Trong
		Gallons per	foot of annula	r space (fr	om chart	on back)		= 6,73	5/	Aur	cod ou
			water or length water in AS (g		hichever	is less)		X 17		Pool	get - L
			foot of casing		rt on bac	k)		= 12.41		1500	T 2009
		Column of	water			,		X 3007		DIM	
			water in casing					=	6,21	Ma	~'
		ACTUAL V	VALENT VOI OLUME PUR	LUME [E RGED (gal	V](AS+	casing, gal	)	=	18.6	02 V	
Method	l of Purging		OMI	APAC	V				/		
Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Т	T. 1:11	D I		51
	Elapsed	(mL/min)	Volume (L)	(ft toc)	рН	(μS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	
1510	0	200		70.33	6.76	6321	13,55	2.39		2.77	
515	5	200			723	Z250	14,21	3.24		2.13	
1520	10	150			7.86	2130	404	141		179	
1525	15				8.09	1980	4.18	149		1,52	
1530	20				820	1880	1408	1.53		1.38	
1535	25				8:26	7960	1399	270		1.34	
1540	30	1		7610	8,28	1850	14.00	1.57		127	
		·	1.000	70110				11/1			
			in and								
Purging	Field Note		. 1			4	Í				
		Pre	Wious	PC	mp	ed c	VV				
C 1	D. 4. #B!	151-		- 1	11.5			1000	10		
		1540	GMI	Sample	e ID/TR =	#: <u>&amp; M</u>	WOZ	10200	19		
	's signature		NA	us I	ul	170	Oct 0	207			
Keviewe	er's signatu	re/date:	0111/10	101/1/11/11	M	65	UCT	1			

FORT	WINGA	TE DEPOT	ACTIVITY			Well No	umber:	SM	WO		
LOW	FLOW W	VELL SAM	PLING DAT	A FORM	1	Start D	ate:	24	OCT	2009	
						Start Time: D9.30					
	asing Diam		_ 2_			Well TI		-			
	ole Diamet	er (1n); S) Length (ft)	8_			Well D'		32.	00 6+	-	
	ed Interval		799-4	$\overline{a}$		Water C	olumn: ntake (ft b	20,	15	-	
		WELL VO	LUME CALCU				Titake (Tr 0,	_50	115	-	
			foot of annula water or length					= ()	73	-	
		Volume of	water in AS (ga	al)				= 14	71	<del>.</del>	
		Gallons per Column of	foot of casing	(from cha	rt on back	<b>(</b> )		= ().	163	-	
			water water in casing	(gal)				x = 20	15	-	
		ONE EQUI	VALENT VO	LUME [E		casing, gal	)	= 18	.00	-	
Method	l of Purging		OLUME PUR	GED (gal	(21	2~		=	56	_	
Time	Minutes	Flow Rate	Cumulative	DTW			Т	T. 1:1:	n I	I po	1
Time	Elapsed	(mL/min)	Volume (L)	(ft toc)	рН	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	
0935	0	70		32.00	7.61	2070	11.41	3.98		2.00	SAW
1936	_3	70		32.00	7.63	2060	11.42	3.61		207	1.85
0941	6	70		32.00	7.70	2070	10.65	254		2.07	1.56 SAW
0944	9	70		32.0	7.71	2060	111.13	2.11		1.51	
0947	12	70		32.00	7.72	.2060	11.37	351		1.48	
0950	15	70		32.00	7.73	2050	11,46	4,39		1.43	
0953	18	70		32.00	7:73	2060	11149	6.62		1.40	
0956	21	70		32,00	7.74	205	11.50	6.28		1.37	
0959	2多	70		32,00	7.74	205	1158	7.99		1.32	
1002	27	70		3200	7.75	205	011,59	7.21		1,29	
1005	30	70	21	32.00	7.75	205	11.62	-7,07		1.28	
						42	050	2			
						9	two	1			
										,	" . T
Durair	Field Note	3/	OH SM	N 30	5051	=71	me	lum t	915	tales	lization
•	mad	S. 10	79 1 -		4.1			ted SI			
CALL	7	unline	at 27	OH	0 /	041 6	. /	35 ne	Ci =	1200	Ohm
Sample	-	1	100T 2009	Sample		#: SMU		09	21 -	ievy	ujuun
	r's signature					26 OCT					

FORT	WINGA'	TE DEPOT	ACTIVITY	, .		Well No	ımberi	CAA	WO	1
			PLING DAT		1	Start D		15 OCT 2009		
				TIT OIL		Start T		094	50	2009
Well Ca	asing Diam	eter (in):	7			Well TI		17	0.7	
	ole Diamete		8			Well D		94	·Z7_	-
	and the second of the second o	S) Length (ft):	17			Water C	Column:	3	6.43	
Screene	ed Interval (		105-12	D		Pump Ir	ntake (ft bg	s):	8.7	20
			LUME CALCU foot of annula		om chart	on back)		= /	73	
			vater or length					X	15	
			vater in AS (ga					= 10	95	
		Column of v	foot of casing	(from cha	rt on back	:)		= 0	63	-
			vater in casing	g (gal)				= 5	- ad-	10.1
			VALENT VO			casing, gal	)	= 10	2.89	
Mathad	- f D		OLUME PUR	12 L	) Dlan	,		= ~1		-
	of Purging	<u> </u>		lon	400					-
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
0988	0	233	(2)	84.22	7.70	816	15.02	4.94	(1111)	0,21
1000	5	233		87.52	932	811	14.19	3.13		0.15
1005	10	105		88.56	8.60	799	1443	1.16		0.14
IDIO	15	120		8856	8.80	789	14:70	0,17		0.14
1015	20	145		88.56	9.04	786	1452	0.07		0.14
1020	25	145		88.56	922	788	Hilel	0.00		0.13
1025	30	120	n16	9251	934	779	H.66	0,01	,	0.13
	11									
		, , , , , , , , , , , , , , , , , , ,					, and a			
Purging	Field Note	es:								
Com1-	Data/T:	. 10.45		C1	a ID/TD	+. CMI	16/100	ANG:		
	Date/Time	: <u>1040</u> e/date:	9011	Sampl	6 1D/TK:	#: <u>EMU</u>	TZCV	<u>uu</u>		
	er's signatur		- 20	MARA	Mon	7 7	300 t	09		

FORT	`WINGA'	TE DEPOT	ACTIVITY			∃well Ni	ımber:	EV	иш С	3		
LOW	FLOW W	ELL SAM	PLING DAT	A FORM	1	Start D		16	16 OCT 2009			
						Start Ti	ime:		130			
Well C	asing Diam	eter (in):	2			Well TI	):		72.9	0		
Bore H	ole Diamet	er (in):	8			Well D	ΓW:	- 8	7,20	13	2	
Annula	r Space (AS	S) Length (ft):	: 17		Water C	Column:		7	3	2 0		
Screene	ed Interval (	(ft bgs):	78-9	3		Pump Ir	ntake (ft bg	gs):		2 3	3 m	
			LUME CALCU						7	08	7	
			foot of annula	200				=	(	+ 3	3 1	
			water or length		nichever	is less)		X	1	2 3	18-1	
			water in AS (ga foot of casing		rt on bool			=	<del>\</del>	5 3	7 3	
		Column of v		(Hom chai	it on baci	X)		=	<del>\</del>	D 7	W3	
			water in casing	(gal)				=	-	80	3 %	
			VALENT VO		V] (AS +	casing, gal	)	=	-	20	3 7	
		ACTUAL V	OLUME PUR	RGED (gal	)	101110		=		3 13	R &	
Method	l of Purging	g:							X	(-z m	0 - 0	
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	pН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)		
1130	0	90		87.20	9.94	160.6	16.06	32.AL		3.34		
1135	5	90		87.21	11.71	1440	14.40	12.14		2.29		
1140	10	90	135	87.23	11,55	0000	13.81	298		1.79		
145	15	90	1350	87.74	11.49		14.05	9.42		1.59		
(150)	20	80		9775	11.48		14.83	3,75		141		

Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1130	0	90		87.20	9.94	160.6	16,06	32.AL		3.34
1135	5	90		87.21	11.71	1990	14.40	12.14		2.29
1140	10	90	135	87.23	11,55	0000	13.81	2.98		1.79
145	15	90	1350	87.24	11.49		14.05	9:42		1.59
1150	20	80		87.25	11.48		14.83	3,25		1.41
1155	25	80		87.25	11.44		15,15	3,14		1.33
1200	30	80	2.850	87.25	11:39		14,82	5.75		1:33
1205	35	70		87.25	11.38		15,12	5.65		1.25
1210	40	70	3.25	87.25	11,38	1	14.85	5.23		1.24
				-						
1 1								1		1

Purging Field Notes:			

Sample Date/Time: 1230	160CT Z009	Sample ID/TR #:	EMW031020	109
0 11: 11			73 OF - 50	

Sampler's signature/date: 23 OCT 201

Reviewer's signature/date: 11 Mint 230cton

WELL SAMPLI	NG DATA	FORM						
					Well Number: Start Date: Start Time:	FN-1	10521 10-28- 1135	02009
Well Casing Diameter Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bo	): ength (ft):			-: -: -	Well TD: Well DTW: Water Column Pump Intake (f	No.		_
WELL VOLUME CA	LCUATION	ı					5.5	_
Column of Volume of Gallons pe Column of Volume of ONE EQUI Number of TOTAL VO	water in cas VALENT VC EV to be pu LUME TO B OLUME PUI	gth of AS (w (gal) ing (from cha ing (gal) DLUME [EV] rged E PURGED	hichever is lart on back) (AS + casin	less)	= X = X = X = we]			
Field Parameters		,			Reading			
Time	1140	1145	1150					Final
Volume (gal)	100	200	300					Sample
Flow Rate (gpm)	20	20	20					N/A
DTW (ft toc)								1

Eh/Redox (mV) DO (mg/L) **Purging Field Notes:** 

Sample Date/Time:

Conductivity (ųS/cm)

Temperature (°C) Turbidity (NTU)

рН

Sample ID/TR #:

Sampler's signature/date:

## WELL SAMPLING DATA FORM Well Number: Start Date: Start Time: Well Casing Diameter (in): Well TD: Bore Hole Diameter (in): Well DTW: Annular Space (AS) Length (ft): Water Column: Screened Interval (ft bgs): Pump Intake (ft bgs) WELL VOLUME CALCUATION Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) X Volume of water in AS (gal) Gallons per foot of casing (from chart on back) Column of water X Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) Number of EV to be purged X TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal) Method of Purging: Field Parameters Reading Time Final Sample Volume (gal) Flow Rate (gpm) N/A DTW (ft toc) На Conductivity (uS/cm) Temperature (°C) Turbidity (NTU)

Eh/Redox (mV)										
DO (mg/L)	2.90	2.97	2.38				A			
Purging Field Notes:										
Flow rate	was	high	becc	inse	Well	Was	PUTG	od fre	Ma	
large di	amete	rmo	ain to	nanc	e pip	ea	nd o	of of	TOM	
the spino	tin	The	wel	1 ho	use.					
. 0									-	
Sample Date/Time:		10522	8-09	120	0	Sample ID	/TR#: /	1005	610200	9
Sampler's signature/d	ate:	Tra	est Ke	2lb 1	0/28/09	and	QC.	SaMAI	<u>,610201</u> le	
Reviewer's signature/	date:		WAM)	bot 10	128/09	Bline	d du	alica	te = w san	
		- /	, ,	l		FW	26/10	2009	w sar	nol
						Line	of	1130		

Well Casing Diamete Bore Hole Diameter (i Annular Space (AS) L	in): Length (ft):			Well Number: Start Date: Start Time: Well TD: Well DTW: Water Column:	FW	1054/020 10-22-09 1315
Screened Interval (ft b				Pump Intake (ft bgs)		
WELL VOLUME CA	ALCUATIO	N				
Gallons p	er foot of and	nular space (	from chart on back	k) =		
			vhichever is less)	Χ		
	f water in AS			=		
Column o	er foot of cas	sing (from ch	art on back)	=		
	rwater fwater in cas	sina (aal)		Χ		_
			(AS + casing, gal)	=		_
	f EV to be pu		(AO + casing, gai)	X		_
	OLUME TO E		(gal)			_
	VOLUME PU			=		
Method of	Purging:	Pub	1,0 5400	In well		_
Field Parameters		-	7.1	Reading		
Гіте	1325	133/	/335			
/olume (gal)	100	200	300			Final Sample
Flow Rate (gpm)	20	20	20			
low nate (gpin)		_	_		1	N/A
						-
OTW (ft toc)	7.54	7.47	7,45			1 1
OTW (ft toc)	7,54	7.47	7.45			
DTW (ft toc) bH Conductivity (ųS/cm)		7.47 1322 12.54	7.45 1326 12.51			
DTW (ft toc)  DH  Conductivity (ųS/cm)  Cemperature (°C)	1308	1				
DTW (ft toc)  DH  Conductivity (ųS/cm)  Cemperature (°C)  Turbidity (NTU)	1308	1				
DTW (ft toc) DH Conductivity (ųS/cm) Femperature (°C) Furbidity (NTU) Eh/Redox (mV) DO (mg/L)	1308 12.02 7.58	1				

Sampler's signature/date: Reviewer's signature/date:

FORT	WINGA	TE DEPOT	ACTIVITY			Well Nu	ımber:	CW	Wor	2
LOW	FLOW W	ELL SAMI	PLING DAT	A FORM	1	Start Da	ate:	20	OCT	2009
						Start Ti	me:	00	115	
Well C	asing Diam	eter (in):	2			Well TD			700	<u> </u>
	ole Diamet		0			Well DT		au 25	14.1	-7
		S) Length (ft):	17			Water C		73	70	92
	d Interval		25-35				take (ft bg	(s):	369	-
			UME CALCU	ATION		r ump m	iune (it og	,5).	)-)-(	-
		Gallons per	foot of annular	space (fre	om chart	on back)		= 0	73	
			vater or length		nichever i	s less)		X	2	
			vater in AS (ga					= 8	.76	
			foot of casing	(from chai	rt on back	()		= 0.	163	
		Column of v		(1)				X Z	3.28	-
			vater in casing VALENT VOI		71 (AS ±	casing gal	0.0	= - 7	5.19	-
			OLUME PUR			casing, gai,			155	-
Method	of Purging		OLOMET ON	OLD (gai	B.W	flow		7 - 10	-	
			30		000	1 10				-
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	пЦ	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)
2011	f 3	100	volume (L)		pH O	(µ5/cm)		COL	(IIIV)	
0995	5	140		14.62	0.16	113	10.98	7.04		0.01
0950	5	140		[4,67	10.11	-01	10.93	5.01		0.05
0405	10	140		14.62	8.32	780	1091	4,44	7	0.05
1000	15	140		[4.62	837	784	10,85	2.99		6,05
1005	20	140		(4,62	8.37	784	10.98	1.99		0.03
1010	25	HO.	<b>V</b>	1467	840	783	10.91	2.25		0.03
1015	30	140	2,1	14.6	1841	782	10,99	2.24		0.03
	,	1.2		1250				25		
									Fig. 20	
							0			
								100		5
									-	
Purging	Field Note	es:								
7/	1011	5M1	30psi	- 1	40 m	O lini	11.			
	00	JUVI	ropse	- (	1000	- force				
C1	Data /T:	1/12/1 7	n MeT) are	. C	a ID/TD	#. C 144	1/100	1177 1971	2	
Sample	Date/11me	1000 2	00T2009	Sampl	ic ID/IK	#	001	102000	1	

Sampler's signature/date:

FORT WINGA	TE DEPOT	ACTIVITY			Well Nu	ımber:	an	IWO	A
LOW FLOW W	VELL SAM	PLING DAT	A FORM	1	Start D		70	OCT	700
					<b>─</b> Start Ti		ewin	25-	17112
Well Casing Diam	eter (in):	7.			Well TE		43	871	37.91
Bore Hole Diamet		9			Well DT		CAUS	13	45.1
Annular Space (A	S) Length (ft):	22	•		Water C		81	.78	
Screened Interval	(ft bgs):	115-135	5		Pump In	take (ft bg	(s):		_
		LUME CALCU					-	37	
		foot of annula water or length					=(	113	-
		water of length water in AS (ga		iichever i	8 (688)		= 11	0.06	-0
		foot of casing		rt on back	()		= 0,	163	-
	Column of v						X 8	1.78	_
		water in casing			20		= 15	3.33	_
		VALENT VOI OLUME PUR			casing, gal	)	= 2	9,39	-
Method of Purging		OLUME I UN		wf	ow			15	
				00 1					-
Time Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	pН	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)
17 1	100	voidine (L)	1517	227	Ende	14.01	1003	(111 * )	200
11/20 5	110	-	45.17	0.22	2000	12 QQ	997		0,08
133 8	110		15.12	050	FAOR	12.00	101		0.00
121 11	110		45 12	047	50U	01707	100		(207
120 14	110		16.0	812	5090	17 77	120		001
147 17	110		1617	8 47	500	12:11	1195		0,06
115 70	110		1517	210	FUL	112.11	0.79		ON
Hag 22	(11)	-200F)	1517	000	CIE C	1700	101		015
10 20	LIC	7152	77/12	-0.12	515	12,00	1.01		0.00
		100			7	~151	D3_1	1 11	_
		Clut	-		4	213	- /	WI	+
			1						-
									-
									-
									-
									-
	L			J					
Purging Field Not	es:					,			
	( - c -	10 -0:		110 -	101				
700fg	con	40psi	N	IUN	re/in				
Sample Date/Time	: 20 OT O	1 1150	Samp	le ID/TR	#: CM	WD4	10200	9	
Sampler's signatur		SAL			230			•	
Reviewer's signatu	ire/date:	Matte	Mint	7	30ct	29			

FORT V	WINGAT	TE DEPOT	ACTIVITY			Well Nu	mber:	CM	NO	1
LOW F	LOW W	ELL SAME	LING DATA	A FORM	[	Start Da	te:	20	OCT	2009
		N=10-10-10-10-10-10-10-10-10-10-10-10-10-1				Start Ti	me:	13	10	1
Well Cas	ing Diame	eter (in)	2			Well TD		66	.60	
	e Diamete		62	_		Well DT		30	95	•
		) Length (ft):	23			Water Co		71	65	1.5
	Interval (					Pump In	ake (ft bg	s): 64	,27	***
			UME CALCU	ATION						
			foot of annular					= 0,	13	
			vater or length		ichever is	s less)		X .	23	•
			vater in AS (ga		a an baala	·		= 16	1/02	ei
		Column of v	foot of casing	(from cnar	t on back	)		X 27	165	
			vater in casing	(gal)				= 1	.50	•
			VALENT VOI	2-7-7-20 CV	/] (AS +	casing, gal)		= 7.1	130	14
40			OLUME PUR			2.64		= 01	5	10 -×
Method o	of Purging	:	4	Low	- Flo	W				20
Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
Time	Elapsed	(mL/min)	Volume (L)	(ft toc)	рН	(µS/cm)	(C)	(NTU)	(mV)	(mg/L)
1310	0	90	39.2	39.2	782	1520	12.72	-3.23		0.08
1313	3	90		39.2	7.87	1520	12.50	0.84		0.07
1316	6	90		39.2	7.98	1520	12:43	0,67		0.07
1319	9	90		39.2	7.99	15 lo	1239	0.68		0.07
1322	12	90		39.2	7.90	1510	12.25	0.55	2.000	0.07
1325	15	90		39.2	7.92	. 1520	12.14	0.21		0.06
1328	18	90	4	39.2	7.93	1520	12.04	0.14		0,06
133	21	90	1.89	39.2	793	1520	12,02	0.63		0,06
						1-10	520			
						11-	Dut	+		
							y	-		-
		89								
										1
Purging	Field Note	es:		- 0:	0	, ^				
_20	OAK	60n "	40psi	- 90	me/	min				
	00		1			11				
Sample	Date/Time	: 1330	20 OCT 200	9 Samo	le ID/TR	#: <i>CM</i>	WOTE	02009		
			SALL							
2000 00 10 10 10 10 10 10 10 10 10 10 10	's signatur		MA	2	230					
Reviewe	er's signati	ire/date:	TULANY	WIT	450	CTO				

 Well Number:
 CMW-10

 Start Date:
 10/22/09

 Start Time:
 1000

 Well Casing Diameter (in):
 2
 Well TD:
 73.1

 Bore Hole Diameter (in):
 \$
 Well DTW:
 6.4.7.5

 Annular Space (AS) Length (ft):
 2
 Water Column:
 8.35

 Screened Interval (ft bgs):
 53.7-73.1
 Pump Intake (ft bgs)

## WELL VOLUME CALCUATION

Gallons per foot of annular space (from chart on back)	=	0.13
Column of water or length of AS (whichever is less)	X	8.35
Volume of water in AS (gal)	=	6.10
Gallons per foot of casing (from chart on back)	=	0.1632
Column of water	X	8,35
Volume of water in casing (gal)	=	1.36
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	=	7.46
Number of EV to be purged	X	3
TOTAL VOLUME TO BE PURGED (gal)	=	22.38
ACTUAL VOLUME PURGED (gal)	=	7.0
W 1.		

Method of Purging: BAILER / FRED GEBHARDTY VIM HUG-

Field Parameters					Reading				
Time	1000	1008	1017	1026	1030	1041	1048	1055	Final
Volume (gal)	/NITIAL	l	2	3	4	5	6	7	Sample
Flow Rate (gpm)									N/A
DTW (ft toc)								To the second	
рН	8.92	7,24	8,28	9.80	10.94	11.01	11.61	1	4
Conductivity (ųS/cm)	520	515	383	533	566	566	411-	-4110	1/2
Temperature (°C)	11.17	11.41	10.65	11.48	11,42	11.46	11.42	(	y_
Turbidity (NTU)	575	119	626	523	500	855	392		
Eh/Redox (mV)									
DO (mg/L)	9.63	5.90	5.01	5.98	4.78	4.29	4.71		

<b>Purging</b>	Field	Notes:	
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RECHARGES

Sample Date/Time:

Sampler's signature/date:

Reviewer's signature/date:

Sample ID/TR #:

MW16/02009

Well Casing Diameter ( Bore Hole Diameter (in) Annular Space (AS) Lei Screened Interval (ft bg	ngth (ft): s):				Well Number: Start Date: Start Time: Well TD: Well DTW: Water Column: Pump Intake (ft bgs	CMM 266 101	JW 2T 09 5	
WELL VOLUME CAL	.CUATION							
		ular space (fi			= \		_	
		gth of AS (wh	nichever is I	ess)	x \		_	
	vater in AS		ut an baald		=		-	
Column of v		ng (from cha	irt on back)		= X		-	
C. (1) - (1)	water water in casi	ing (gal)			^ _	\	-	
		LUME [EV]	(AS + casing	g, gal)	=		=	
	EV to be pur				×			
TOTAL VOI	LUME TO B	E PURGED	(gal)		=		-	
ACTUAL V	OLUME PUR	RGED (gal)			=		-	
Method of F	urging:							
Field Parameters					Reading			
Time								Final
Volume (gal)								Sample
Flow Rate (gpm)								N/A
DTW (ft toc)								
рН								
Conductivity (ųS/cm)								
Temperature (ºC)								
Turbidity (NTU)								
Eh/Redox (mV)								
DO (mg/L)								
Purging Field Notes:  CHWID WE  Heynd Jaw  Set,	rs per Dod O	sed i	and h ui	para ite f	meters of	alon.	previ	ous (
Sample Date/Time: Sampler's signature/o Reviewer's signature/	0	1015 2011 MM	2600 1600	1 201 en 7 VISCO	9 Sampl 6007 2009	e ID/TR #: (	CMWIL	) <u>(1) 200</u>

- 1				ACTIVITY			Well No	ımber:	CW	WIC	<u> </u>
Ī	LOW ]	FLOW W	ELL SAMI	PLING DAT	A FORM	1	Start D	ate:	21	OCT 2	09
							Start Ti	me:	17	55	
1	Well Ca	asing Diam	eter (in):	2			Well TI	):	9	6:75	
F	Bore Ho	ole Diamete	er (in):	8			Well Di		16	72	_
A	Annular	Space (AS	S) Length (ft):	12			Water C		80	0,02	,
S	Screene	d Interval (	ft bgs):	10				itake (ft bg	(s): 9 E	2.76	7
				UME CALCU			36			111	-
				foot of annula					= 01	73	_
				vater or length		nichever i	s less)		X	2	_
				vater in AS (ga foot of casing		1 1	,			176	-
			Column of v		(Hom chai	t on back	()		$=$ $O_1$	163	-
				vater in casing	(gal)				= 12	204	-
				VALENT VOI		V] (AS +	casing, gal	)	= 7	408	-
			ACTUAL V	OLUME PUR	GED (gal	)			= 0	175	_
N	Method	of Purging	:		2157	Lo	WF/	000			-0
	Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	pН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox	DO
7	24	(1)	170	(L)	1673	12.78	(H3/CIII)	10 91	51 92	(mV)	(mg/L
3	bula	3	170		16.27	17.96	50.70	11 00	777		6.0
6	361	6	170		11.72	1300	5970	1113	293		6.01
91	2021	9	170		16.23	12.59	EQ 70	11.14	294		00
351	100	12	170		16.22	1210	COR	1111	7/2	-	000
上上	1	15	170	< /	11 72	12/16	FACO	11.19	256	-	000
	DIV	18	170	20-	11 22	12 0	5000	11.12	3.56		0.08
4		10	110	3,4	16:23	19161	20160	11.00	2.61		00
L							W50	160			
								10			
r				15							
-											
			4 2								
H		-									
-											
		H 1000 1000 1000 1000									
$\vdash$								-			
L											
P	Purging	Field Note	es:	,			ο	,			
	10	OFR 12	con 3	35 psi	ニル	170	ml/a	nn			
		00					ı				
_	, ,	D . /T'	17/15	TINTIP	. C1	- ID/TD	u. C 1/1	11) 1/1	1020719	?	
				21 00T 09	Sampi	e ID/TR	#: <u> </u>	W14	102001		
S	Sampler	r's signature	e/date:	M	400	un	23	oci 2	2009		
	51 19	er's signatu		MITH	11/75	77 004	-09				

## WELL VOLUME CALCUATION

Gallons per foot of annular space (from chart on back)	=	0.73
Column of water or length of AS (whichever is less)	X	22
Volume of water in AS (gal)	=	16.06
Gallons per foot of casing (from chart on back)	=	0.1632
Column of water	X	37.68
Volume of water in casing (gal)		6.15
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	=	22.21
Number of EV to be purged	X	3
TOTAL VOLUME TO BE PURGED (gal)	=	66.63
ACTUAL VOLUME PURGED (gal)	=	7 GALS

Method of Purging: BAILER

Field Parameters	Reading							
Time		Final						
Volume (gal)		Sample						
Flow Rate (gpm)		N/A						
DTW (ft toc)								
рН								
Conductivity (ųS/cm)								
Temperature (°C)								
Turbidity (NTU)								
Eh/Redox (mV)								
DO (mg/L)								

## **Purging Field Notes:**

DIF	FICULTI	ES WI	TH PUMP.	WELL	WAS	PUMPED	DRY (761	145)	PREVIOUSE	4
							1 COLLECT			,
							REMOVED			

Sample Date/Time:

Sampler's signature/date:

Reviewer's signature/date:

Sample ID/TR #:

MW17102009

Well Casing Diameter Bore Hole Diameter (ir Annular Space (AS) Le Screened Interval (ft b	n): ength (ft):				Well Num Start Date Start Tim Well TD: Well DTW Water Co Pump Inta	e: e: /:	26 OCT 2089 1150 54,24 		
WELL VOLUME CA	LCUATION	١		_	96-5-50-90 <b>*</b> 50-00-698	, ,			_
Column of Volume of Gallons pe Column of Volume of ONE EQUI Number of TOTAL VO	Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) Volume of water in AS (gal) Gallons per foot of casing (from chart on back) Column of water Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) Number of EV to be purged TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal) Method of Purging:							-	
Field Parameters					Reading			<del>\                                    </del>	
Time									Final
Volume (gal)									Sample
Flow Rate (gpm)									N/A
DTW (ft toc)									1377
рН									
Conductivity (ųS/cm)									
Temperature (°C)									
Turbidity (NTU)									
Eh/Redox (mV)									
DO (mg/L)									
Purging Field Notes:  Well wo  and 1  Very slo	so sa utrat w to	e fait	ed de rite = enge.	rectly wax	see an	ole ori	by 4	YOC S it oz days	cample cater prior
Sampler's signature/o		SOL	Ipon	h 2	6 OCT	2009			1000
Reviewer's signature	date:	4/1/1/0	K (	0/26/09		1			

.

FORT WINGA LOW FLOW V				1	Well Nu Start Da		CW	WL:	8_
LOW PLOW V	VELL BANI	LING DAT	A FORIV	1	Start Di		91	20	ra -
Well Casing Diam	eter (in):	5			Well TD		51	10	04
Bore Hole Diamet		2	_		Well DT		1	06	-
Annular Space (A		27			Water C		13	05	-
Screened Interval		34-5	4			take (ft bg	(s): 51	.77	-
		UME CALCU	JATION		1	(			•
		foot of annular					= 0:	73	20
		vater or length		nichever i	s less)		X 13.	05	-
		vater in AS (ga		1 1			= 9	52	-
	Column of v	foot of casing	(irom chai	n on back	()		= $0.1$	05	
	Column of	vater in casing	(gal)				= 7	13	-
		VALENT VOI		V] (AS +	casing, gal)	)	= 11.	65	-
	ACTUAL V	OLUME PUR	GED (gal		10		= 0,	75	
Method of Purging	g:			low-	tlow				-
Time Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
Elapsed	(mL/min)	Volume (L)	(ft toc)	pН	(μS/cm)	(C)	(NTU)	(mV)	(mg/L)
0930 0	170	0	41.05	7.36	9110	12.00	1.85		0,08
0933 3	170	8	4.05	737	9100	1196	1,25		0,07
0936 6	170	8	41.05	7.40	9110	11.90	0.77		008
0939 9	170		41.05	7,44	9120	1194	0,66		0,07
0947 12	170		41.05	7.46	9110	1198	0.56		0.07
0995 15	170		41.05	7.48	9170	11.98	0.65		6,07
0099 18	170	300ml	4.10	7.50	9120	1196	1.28		0.07
							74		
		2							
								1000	
					,				
			13			l l			

Purging Field Notes:	,	SAN,	
120th 600 34	osi -> trono	able to same	ple well
VOITA AND OF UX	ath.		QA/QC well
Sample Date/Time: 1000 100	20 21 OCT 2009 Sample ID/TR #:	CHW 18 10 2009	(FW03)
Sampler's signature/date:	Mulboner	23 OCT 2009	•
Reviewer's signature/date:	Whith Most 10/231	109	

FORT	WINGA	TE DEPOT	ACTIVITY			Well No	umber:	~	- CA	Aurt	9
			PLING DAT	1	Start D	ι					
						<b>─</b> Start T		10	2/4		
Well C	asing Diam	eter (in):	2			Well TI		51	30		
	ole Diamet		8			Well D		24	15	•	
Annula	r Space (AS	S) Length (ft):	17"			Water C	Column:	27	.15	•	
Screene	ed Interval		Basart	8.5 36	3-51.	3 Pump Ir	ntake (ft bg	(s):			
			ÚME CALCU		1				72		
			foot of annula vater or length					$=$ $\frac{\mathcal{O}_{c}}{X}$	7		
			vater in AS (ga		nene ver i	3 1033)			2.4		
		Gallons per	foot of casing		rt on back	c)		= 0./	63	- 415	7 .
		Column of v		2 40				X	7	- 2 p	Tour
			vater in casing VALENT VOI		V1 (AC 1	oosina asl	`		77		
			OLUME PUR			casing, gai	)	= 15	GAL	22	
Method	l of Purging			PUMP		D CEL	SHARD	T4 Ji		G-	
Time	Minutes	Flow Rate	Cumulative	DTW	1	Cond.	Temp.	Turbidity			1
Time	Elapsed	(mL/min)	Volume (L)	(ft toc)	pН	(µS/cm)	(C)	(NTU)	Redox (mV)	DO (mg/L)	
1214	0		0	24.15	10.14	1460	13.84			1.92	
1230	16		0.50	24.15	9.90	1343	12.73	12 5 1-		30,2	.87
1237	7		0.75	24.15	9.87	1315	12.84	34.1		.81	
1248	11		1 GAL	24,15	9,85	1313	12.80	37.2		. 79	
*		PUMP	SPITT	ING	N2.	WEL	L PU	MPED			
		EAR	LIER.								
							(2)	*			
										17.4	
									£.		
Puroina	g Field Note	es:								33	
- arging	5 1 1010 1100										
Sample	Date/Time	:	- Judie Mhitti	Samp	le ID/TR	#:_ CN	W1910	2009	£		
Sample	er's signatur	re/date:	Fudie	18.10	Weln	est					
Review	er's signatu	ire/date:	AMATA	1/1/1	0/20/	53		<del></del>			

1.8.4

		Start Date: Start Time:	76 OCT 2009			
Well Casing Diameter (in): Bore Hole Diameter (in): Annular Space (AS) Length (ft): Screened Interval (ft bgs):		Well TD: Well DTW: Water Column: Pump Intake (ft bgs)	51.30 ————————————————————————————————————			
WELL VOLUME CALCUATION	N					
Column of water or len Volume of water in AS Gallons per foot of cas Column of water Volume of water in cas	ing (from chart on back) sing (gal) DLUME [EV] (AS + casing, garged BE PURGED (gal)	X = X = X =				
Field Parameters		Reading				
Time				Final		
Volume (gal)				Sample		
Flow Rate (gpm)				N/A		
DTW (ft toc)						
рН						
Conductivity (ųS/cm)						
Temperature (°C)						
Turbidity (NTU)						
Eh/Redox (mV)						
DO (mg/L)						
Purging Field Notes:  Collected Surprise:  Uate, 1/2 L St.  42 L at 40 d.  Of water  Sample Date/Time:	les 2507 6 hy 07 full 5 64 300 30	on 30psc (1 Set (- Lups) , after 42-1	ntil voi complete completel	noutoz Last granort v 19102009		
Sampler's signature/date:	Capilbone	1260CTZ009				

Well Number:

					Well Num Start Date Start Tim	e:	10-	W-20	7
Well Casing Diameter Bore Hole Diameter (in		2	1	_	Well TD:		120.	23	
Annular Space (AS) Le Screened Interval (ft b	ength (ft):	96.5	7 -116,5	-	Well DTW Water Col Pump Inta		114, 5,	52	_
WELL VOLUME CA	LCUATION	N	1	-	· sinp into	ine (it bgs)		123	_
Gallons pe	er foot of ann	iular space (	from chart o	n back)	=	$\circ$	73		
Column of		X	- 0	7/	2				
	water in AS			etestore.	=	4	,17		
	er foot of cas	ing (from ch	art on back)		=	0.	163	<u>.</u>	
Column of					X	5.	7/		
	water in cas				=	0	.93	•	
	IVALENT VO		(AS + casin	g, gal)	=	_5,	/	i	
	EV to be pu LUME TO B		(aal)		X	-,3	7	e.	
	OLUME PU		(gai)		=	15.			
Method of		_ba	iler		=	/			
Field Parameters	I				Reading			%	
Time	1335	1345	1355			T			Final
Volume (gal)	0.25	0.75	1						Final Sample
Flow Rate (gpm)									N/A
DTW (ft toc)		118.31	119.90	>					IV/A
рН	8.77	8.87	8,92						
Conductivity (ųS/cm)	698	700	699						
Temperature (°C)	12.48	12.21	12.29						
Turbidity (NTU)	210.0	331.7	7/000						
Eh/Redox (mV)								50	
DO (mg/L)	3,94	3.00	3,30						
Purging Field Notes:	) nea	ter	Mi	thdra	aus	was	cloa	L.	
Water &	De creu	no pr	iogro.	ssine	ly C	land	ier u	bay	ling
Bailed	dry	aste	r re	Nouc	0 0	12	1 sa	P.	7
Sample Date/Time:	J	110.54	AMPIF	C13/1	FITE	Sample ID	/TR#: /	MW2	21009
Sampler's signature/o	date:	Th	ant 1	Tollo	16-15			10100	21001

Well Casing Diameter (in): Bore Hole Diameter (in): Annular Space (AS) Length (ft): Screened Interval (ft bgs):	Well Number: Start Date: Start Time: Well TD: Well DTW: Water Column: Pump Intake (ft bgs)	CMW-23 10-15-09 1415 106.6 97.14 97.46
Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) Volume of water in AS (gal) Gallons per foot of casing (from chart on back) Column of water Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) Number of EV to be purged TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal) Method of Purging:	= 0,1 x 9, = 0,1 x 9, = 0,1 x 9, = 25, = 1,1	73 46 91 163 46 54 45 3 3 35

Field Parameters		Reading								
Time	1425	1435	1445						Final	
Volume (gal)	0.5	/	1.5						Sample	
Flow Rate (gpm)									N/A	
DTW (ft toc)	99.67	10226	104,91							
рН	9.06	8.91	8.94							
Conductivity (ųS/cm)	1840	3740	6120							
Temperature (ºC)	12.50	12.57	12,59							
Turbidity (NTU)	71000	84.9	572.4							
Eh/Redox (mV)										
DO (mg/L)	4.72	3.88	2.63							

Purging Field Notes:						
Initially,	neater i	ucos	Clear	, but be	come	very
silty just	before	the w	ell b	ailed de	y, Ro,	noudd
21,73 gal	bedow u	iell i	uent	dry (	J	
J	0					
Sample Date/Time:	NOSAMPL			Sample ID/TR #:	CMW	731009
Sampler's signature/date:	Frant	Kolb	10-15-0	9		
Reviewer's signature/date:	Matheret	+10/23/0	9			

			ACTIVITY PLING DAT		1	Well Number: CMW 74 Start Date: 22 CCT 2019 Start Time: F124P 1/55				
Bore H Annula Screene	asing Diam fole Diameter Space (AS ed Interval (	er (in): S) Length (ft): (ft bgs): WELL VOI Gallons per Column of v Volume of v ONE EQUI ACTUAL V	230 - Z LUME CALCU foot of annular water or length water in AS (ga foot of casing	r space (from character) (gal) (LUME [EV	nichever rt on back V] (AS +	Well TI Well Di Water C Pump Ir on back) is less)	D; TW: 'olumn: itake (ft bg	= D X = 2, = 0, X 21, = 2,	3,43 58,3 173 32 5,36 163 3,34 4,77 0,13	3
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
155	0	140	O O	46.91	7.64	2670	15.01	125.9	(III V)	6.07
1158	3	140	.420	46.91	8.28	2690	13.92	135.4		006
1201	6	140	.840	46.91	8.52	2690	14.71	61.55		0.06
204	9	140	1.260	46.91	8.61	2700	14.98	113.4		0.05
207	12	140	1.680	46.91	8.63	2700	14.77	98-66		0.05
20	15	190	1.10	46.91	8.61	2710	13.87	93.24		0.05
1213	18	140	1.520	46.91	8.60	27/0	13,96	91.85		0.05
		7	*							
						н.				
100 20 Sample	Field Note	50 on 8	SOPSU = 19 BOPSU = BOPSU = BALL	10 ml,	/inm	HE CMU	me & furm 2411	talsi sauge 2009	lizer no ngOr	horing

Reviewer's signature/date:

FORT WINGATE DEPOT ACTIVITY	Well Number:	CMW25
LOW FLOW WELL SAMPLING DATA FORM	Start Date:	10-16-07
0	Start Time:	1145
Well Casing Diameter (in):	Well TD:	98,78
Bore Hole Diameter (in):	Well DTW:	36.48
Annular Space (AS) Length (ft): 27	Water Column:	62.30
Screened Interval (ft bgs): 71-96	Pump Intake (ft bgs):	96.78
WELL VOLUME CALCUATION		- 172
Gallons per foot of annular space (from cha	art on back) =	= 0,73
Column of water or length of AS (whichever	er is less)	27
Volume of water in AS (gal)	=	19.71
Gallons per foot of casing (from chart on b	ack) =	0,163
Column of water	X	62,30
Volume of water in casing (gal)	8=	10.15
ONE EQUIVALENT VOLUME [EV] (AS	+ casing, gal) =	29.86
ACTUAL VOLUME PURGED (gal)	=	3/7
Method of Purging: / Dw Yow		

Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1205	Ô	70	0	37.21	_		,	_	(22.7)	-
1210	5	50	0.25	37.75	9.15	1040	17.58	8.01		1.57
1215	10	50	0,5	38,12	9.27	1044	1271	3.95		1.31
1220	15	70	0.85	3853	9,25	1051	16.58	2.32		1.18
1230	25	70	1,65	39.26	9.27	1046	17.16	2,47		1.05
1240	35	70	2.25	39.77	9.27	1050	17.57	3.21		1.08
1250	45	110	3.35	40.70	9.26	1055	17.40	2.01		1.01
1255	50	120	3.95	41.73	9.29	1053	16.15	2.25		0.95
1300	55	120	4.55	42.42	9.3/	1053	15,47	1.94	1997	0.88
1315	70	120	6.35	45.11	9.31	1054	15.51	1.98		0.85
1330	85	150	8,6	47.55	9.31	1052	14.92	2.44		0.81
1345	100	220	11.9	51.54	930	1051	14.20	19.48		1.01
1350	105	50	12.15	51.71	9.27	1055	16.35	19.84	^	1,20
1355	110	40	1235	51.81	9.26	1054	18.16	23.65		1.20
1400	115	40	12.55	51.85	9.15	1055	19.55	17.26	.7	1.16
1405	120	40	12.75	51.91	9.05	1055		11.20		1.07

Purging Field Notes:

Water level immed drapped > 0.3 on first purge & Fedi=60, purge 5.

Then a tempted to increase purge a pump well dry. After 105 min,

Sample Date/Time: 10/18/09 1500 Sample ID/TR #: CMW25102009 decreased purge to

Sampler's signature/date: Frank Lolb 10-16-09 450c, increased

Reviewer's signature/date: MMM/Mot 10/23/09 100ch 40 75 Sec.

Achieved flow rate of 30 ml/min a water

level stabilized dramatically. Parameters were stable,

Proceeded w sample collection.

P9 20 f2

FORT WIN	NGATE DEPO	OT ACTIVITY	Y		Well N	umber:	CI	nw &	25	
LOW FLO	W WELL SA	MPLING DA	TA FOR	M	Start I	Date:	10	-16-	09	
		^			Start T	ime:	/	145		
Well Casing	Diameter (in):	2			Well T		98	78		
Bore Hole Di		8			Well D		31	48	_	
	e (AS) Length (	ft): <u>27</u>			Water 0	Column:		3. 10		
Screened Inte					Pump I	ntake (ft b	gs):		=	
		OLUME CALC					**************************************		-	
	Column of	er foot of annula	ar space (fi	rom chart	on back)		=		-	
	Volume o	of water or length of water in AS (g	n 01 A5 (W ral)	nichever	is less)		X		- /	
		er foot of casing		art on bac	k)				- / 51	00
	Column o	of water			//				- \	199
		of water in casing					=		- ( )	0
	ONE EQ	UIVALENT VO	LUME [E	V] (AS +	casing, gal	1)	=		_ \	1
Method of Pu		VOLUME PUI	1				=		- )	,
			w ti	OW						
Time Mini Elap			DTW		Cond.	Temp.	Turbidity	Redox	DO	
410 10	/ .		(ft toc)	pH	(µS/cm)	(C)	(NTU)	(mV)	(mg/L)	
710 17	5 40	12.95	51.47	8.95	1055	20.37	11,02		0.97	
415 13	0 30	13.1	51.99	891	1055	20.96	5.93		0.93	
420 13	5 30	13.25	52.04	8,90	1056	21.28	5,97		0.92	
425 14	0 30	13,4	52.04	8.90	1056	1136	441		0.90	
1120 14	5 30	13,55	C2 :1		1000	01.0	7:11		-	
750 17		-	52.11	8,87	1051	21.65	3.65	)	0.87	
733/5	0 30	13.7	52,15	8.85	1057	21.49	2.81		0.83	
740 15	5 30	13.85	52.15	8,84	1058	21.61	3.38		0.82	
445 16	0 30	14.0	52,18	8.85	1058	21.79	2.43	7	0.80	
447 16	230	14.06			1037	21.46	2,64		0.81	
1	V 00	, , , , ,	20,000	,0_	1001	041.14	0101		0,01	
		,	,			,				
640 F	mal u	aler /	evel	=	53.	11				
		-								
urging Field	Notes:									
no 1		tion ga.	7.1	001	- 1	1		Ma.	400 1	
T I	71						ing. /	wy	rued	
to be	pumpe	down	fur	ther	next e	vent		t	1	
ample Date/T	lime:	_	Sampl	e ID/TR	#:					
ampler's sign	ature/date:		ž%		3		_			
eviewer's sig										
criewel a alg	mature/date.									

FORT WINGATE DEPOT ACTIVITY	Well Number:	Km 16-09
LOW FLOW WELL SAMPLING DATA FORM	Start Date:	10-15-09
Well Casing Diameter (in):  Bore Hole Diameter (in):  Annular Space (AS) Length (ft):  Screened Interval (ft bgs):  60-70'	Start Time: Well TD: Well DTW: Water Column: Pump Intake (ft bgs):	7015 1040 72.9 39.20 33.7 70.9
WELL VOLUME CALCUATION Gallons per foot of annular space (from cha Column of water or length of AS (whicheve Volume of water in AS (gal) Gallons per foot of casing (from chart on ba Column of water .  Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS ACTUAL VOLUME PURGED (gal)	r is less)	8.76
Method of Purging:low +low		

Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1045	0	90	0	39.20	7.81	3450	12.71	4.42		3.09
1050	5	90	0.45	39.20	8.19	3480	12.33	2.24		2.02
1055	10	90	0.9	39.20	8.28	3490	12.22	1.50		1.76
1100	15	90	1,35	39.20	8.23	3500	12.18	0.34		1.58
1105	20	90	1.8	39.20	8.18	3520	12.17	0.66		1.46
1110	25	90	2.25	39,20	8,14	3520	12,26	0.33		1.45
1113	28	90	2.52	39.20	8.11	3530	12.36	0.55		1,40
1116	31	90	2.79	39.20	8.09	3540	12.52	0,26		1.37
1119	34	90	3.06	39,20	8.07	3540	12.61	0091		1,34
1121	36	90	3.24		8.06	3550	12.62	. —		1.35
1123	38	90	3.42	39.20	8,05	3550	12.65	0,20		1.34
1125	40	90	3.6	39.20	8.04	3550	12.64			1.32
1127	47	90	3.78	39,20	8,03	3560	12.66	_		1,30
1129	44	90	3.96	39.20	8.03	3560	12.80	0.22	-	1,31

Purging Field Notes:

Very clear water. Pressure = 35-37 psi, rech = 30 sec,

Durge = 5 sec, flow rate = 90 ml/min. Final Hab lend

Sample Date/Time: 10/15/09 1203 Sample ID/TR #: KMW89102009 = 39.20'

Sampler's signature/date:

Reviewer's signature/date:

Math Math 10/23/09

Method of Purging:

Well Number: Start Date: Start Time: Well Casing Diameter (in): Well TD: Bore Hole Diameter (in): Well DTW: Annular Space (AS) Length (ft): Water Column: Screened Interval (ft bgs): Pump Intake (ft bgs) WELL VOLUME CALCUATION Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) X Volume of water in AS (gal) = Gallons per foot of casing (from chart on back) =

Column of water

Volume of water in casing (gal)

ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)

Number of EV to be purged

TOTAL VOLUME TO BE PURGED (gal)

ACTUAL VOLUME PURGED (gal)

X

4.07

- 0.67

X

3

- 10.98

- 10.98

**Field Parameters** Reading Time Final 0.25 Sample Volume (gal) Flow Rate (gpm) N/A DTW (ft toc) pH Conductivity (ųS/cm) Temperature (°C) Turbidity (NTU) Eh/Redox (mV) 6.42 5.91 DO (mg/L)

Purging Field Notes: Very Clean water	Removed approx	2 9al
total before met	If was any	
	J	.7

Sample Date/Time:

Sampler's signature/date:

Reviewer's signature/date:

Agrample Collected

Sample ID/TR #:

KMW101009

FORT	WINGA	TE DEPOT	ACTIVITY			Well No	umber:	KI	nw i	1
LOW	FLOW W	ELL SAMI	PLING DAT	A FORM	1	Start D	ate:	77	OCT	2009
	1000-00411000-004110-0					Start T	ime:	0	910	
Well Ca	asing Diam	eter (in):	2			Well TI	):	57	7.44	
Bore H	ole Diamet	er (in):	8			Well D	ΓW:	32	140	
Annula	r Space (AS	S) Length (ft):	22			Water C	Column:	25	5.04	
Screene	ed Interval (	(ft bgs):	25-5	5		Pump Ir	ntake (ft bg	(s): 54	5.11	_
			LUME CALCU			a			-7	
			foot of annula	0.0		- 27		=	.13	
Column of water or length of AS (whichever in Volume of water in AS (gal)						s less)		X	22	- 1
			foot of casing		rt on back	()		= (0)	162	-
		Column of v		(iroin cha	t on oue.	-7		X 24	5.04	_
		Volume of v	vater in casing	(gal)				= 2	L.DB	-
			VALENT VO			casing, gal	)	= 20	0.14	_
			OLUME PUR	RGED (gal			_	= <u>Ô</u>	.75	-
Method	of Purging	;:	N		100	o Fl	OW			-
Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
	Elapsed	(mL/min)	Volume (L)	(ft toc)	pН	(μS/cm)	(C)	(NTU)	(mV)	(mg/L)
0910	_0_	160	D	32.40	8,21	991	11.55	43,60		0.07
0913	3	160	.480	32.43	857	991	11:25	3.83		0.04
0916	6	160	1960	32.46	8,68	994	11.63	3.52		0.04
0919	9	160	1,440	32,49	8,70	996	11.63	37.68		0.04
0922	12	160	1,920	32.52	8,73	998	11,66	76.58		0.03
0975	15	160	2.40	32.55	8.74	997	1663	2.53		0.04
0928	18	160	2,990	32.W	8.75	997	11.60	158,0		0.03
Purging	Field Note	es:	r F	22	17.877					
	Turbidi	ty doe	sn't ap	pear to	o have	stab,	lized.			
		7	Ű	1						
Sample	Date/Time	0930	220010	9 Sampl	e ID/TR	#:_ KII	1WIL	102009		
	r's signature		/		1752.0	230				
Review	er's signatu	re/date:	AM	10	2300	+09				

Well Number:
KMWID

Start Date:
10/16/09

Start Time:
10/16/09

Well Casing Diameter (in):
Well TD:

Bore Hole Diameter (in):
Well DTW:

48.58

Annular Space (AS) Length (ft):
Water Column:

Screened Interval (ft bgs):
5.49 ~ 75.49

Pump Intake (ft bgs)

### WELL VOLUME CALCUATION

Gallons per foot of annular space (from chart on back)	=	0.73
Column of water or length of AS (whichever is less)	X	22
Volume of water in AS (gal)	=	16.06
Gallons per foot of casing (from chart on back)	=	0.163
Column of water	X	26.91
Volume of water in casing (gal)	=	4.39
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	=	20.45
Number of EV to be purged	X	3
TOTAL VOLUME TO BE PURGED (gal)	=	61.35
ACTUAL VOLUME PURGED (gal)	=	13

Method of Purging: BENNETT PUMP

Field Parameters					Reading				
Time	0902	0905	0907	0910	09/3	0920	0926		Final
Volume (gal)	INITIAL	3	5	7	9	11	13		Sample
Flow Rate (gpm)									N/A
DTW (ft toc)	48.58					6		,48	080
рН	6.87	6.81	6.85	6.89	6.92	7.43	7,72		
Conductivity (ųS/cm)		414	415	416	419	408	4086		
Temperature (°C)	11.41	11.30	11.28	11.27	11.28	11.29	11.41		
Turbidity (NTU)	29.9	12.5	38.7	18.5	42.7	13.3	10.5		
Eh/Redox (mV)									,
DO (mg/L)	0.29	0.18	0.16	0.16	0.14	0.13	0.15		

**Purging Field Notes:** 

PUMPED WELL FORY, SAMPLED AFTER WELL RECHARGED.

Sample Date/Time:

Sampler's signature/date:

Reviewer's signature/date:

0915

Sample ID/TR #:

KMW12102009

PER DESCRIPTION			ACTIVITY			Well N	umber:	TM	w-	21
LOW	FLOW W	ELL SAM	PLING DAT	A FORM	1	Start D	ate:		0-14-	09
			0			Start T	ime:	/	030	
	sing Diam		2			Well TI		_6	1,23	. ,
	ole Diamete		8			Well D			5.94	4
	d Interval (	S) Length (ft):	44-0	30		Water C		- 2	5,2	7
Screene	d Intervar (	N	LUME CALCU	JATION		Pump II	ntake (ft bg	(s):5	7.0-	?
		Gallons per	foot of annula	r space (fr				= 4	0.73	•
			water or length		nichever i	s less)		X	17	
			water in AS (ga foot of casing		rt on back	3		= /	2,41	
		Column of v		(Hom chai	t on back	.)		x 25.	29	-
			water in casing					= 4.	12	
			VALENT VOI OLUME PUR			casing, gal	)	= 16	153	
Method	of Purging		/	W F	low	Auto	10	=	,0	
					/ CW	Par	) =			
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1150	0	50	0	36.04	7.57	2890	16.09	145,3		3.83
1155	5	50	0.25	36.05	7.61	2840	15.23	75.86		3.29
1200	10	50	0.5	36,05	7.64	2830	15,53	46,80		3.16
1205	15	50	0.75	36,06	7.64	2820	15.61	32.81		3.11
210	20	50	1.0	36.06	7.64	2850	15.60	28,00		3,05
1215	25	50	1.25	36.06	7.64	2260	15,56	,		3.07
1220	30	50	1,50	36.06	7.64	2800	15.64	8.99		3.03
1225	35	50	1.75	36.06	7.6	2810	15,72	7.21		2.91
1230	40	50	2.0	36.06	7.65	2810	15,98	4.37		2.90
1235	45	50	2,25	36.06	7.65	2810	15,99	4.54		2.91
1237	47	50	2.35	36.06	7.65	2810	15,91	4.87		2.91
1330				36,05						
1				36.05						
1405			I							

Reviewer's signature/date:

							_		7			
			ACTIVITY	. 500			Well Nu		_40	1000	<u></u>	
LOW	FLOW W	ELL SAMI	PLING DAT	A FC	ORN	1	Start Da		140	$\frac{2}{2}$	009	
		- 10000000	0				Start Ti			0945	24 00	
	asing Diamole Diamete		2	_			Well TD			5 ( 9 8	34.09	[
		er (in): S) Length (ft):	-8	_			Well DT Water C			29.91	•	
	d Interval (	M 70 M M	(14)6	70	_91	9		take (ft bg		32.09		
Servene	a mer m		UME CALCU	ATI(	ON		r ump m	itake (it og		12.0	•	
			foot of annular						=	,73		
			water or length		S (wh	nichever i	s less)			14		
			water in AS (ga foot of casing (		chai	rt on back	()			163	i .	
		Column of v		(HOIII	Circi	t on oues	.)		X	79.91		
			water in casing						=	1.88		
			VALENT VOI				casing, gal)	)	= /	5110	- 10	.0
Mathad	of D		OLUME PUR	GED	(gal	003	Flow		=	33	~160	4
Method	of Purging											
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DT (ft t		рН	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	
0995	Diapseu	125	0.000		15	7.19	+ 1 -	014.33	4596	(111 V)	[ [ ]	
0950	5	125	0.250	1		7.55	4.46	14.13	23.96		5.85	
0955	10	12.5	0.375			797	448.0	13.64	23.96		5.66	
1000	15	175	.500			8.06	446.0	13.49	10.98		5.33	
1005	20	125	,625			8.13	446.0	13.75	23.64		5.98	
1010	25	125	.750			8.15	4470	13.75	82.61		6.35	
1015	30	125	.875			8.17	447.0	13.71	42.08		8.17	6.40
1020	34	125	1.00		_	8.18	447.0	13.74	455.10		8+19	6.42
1025	40	125	1,125		V	8.28	447	14.13	25.42		8.19	
1030	45	125	11.250	56	. 1	8.22	447	13.85	16.54		\$6.3	4
			3750									
												-
												-
												-
												-
Purging	g Field Note	es:										
The	is we	mnis	a Olau	in	a l	ent	er fo	Ne	turn	too	vell	1
111	2000 ×	polar	red IIA	/ (	10	ldo	d. con	2-14	Fix 7 )	alve	)	1
Sample	Date/Time	1625	140cT 0	7 0	amn	le ID/TR	#: TU	1W02	182And	3		
			- ON	1,1	be	3/4/1-	10	LOCT	7/9-7/	। त		
	r's signatur		M HA	MA	-	10/2	1/20	000		appea	955	
Review	er's signatu	ire/date:	11/01/11/1	11000		10/60	101			cy !		1

stabilized but need more PTW neasurements & DO. is

			ACTIVITY PLING DAT		1	Well Nu Start D		TM	wo:	3
LOW	ELOW W	ELL SAMI	LING DAT	AFORN	1	Start D		17	10	004
Well Ca	asing Diam	eter (in):	7			Well TI		7.	7.06	
	ole Diamet		8			Well D7			Co ##	97
		S) Length (ft):	27			Water C		+E	4	15.14
Screene	d Interval (	C. (250.00)	49.8-0 UME CALCU	9.B JATION		Pump Ir	itake (ft bg	gs):	10.00	2
		The state of the s	foot of annular					=	0.73	-
			vater or length vater in AS (ga		nichever i	s less)		X 15	2:14	-03
			foot of casing		t on back	()		= 0	163	- 2
		Column of v						X [1	5,14	*
			vater in casing					=	2.47	-
			VALENT VOI OLUME PUR			casing, gal	)	= 17	161	7-60
Method	of Purging	; <b>:</b>	————	OLD (gai	low	flow			5 Zi	.200
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1240	0	300	800	5692	140	4330	14,47	3.05		2.82
1,245	5	.300	.690	5707	7.72	4200	14.61	340.64		2.31
1250	10	.275	.875	57.11	7.75	4320	14.65	26.41		2.28
255	15	0275	1.150	57.11	7.76		14.63	1494		228
1300	20	.275	1.455	57.11	7.77	4330	14.53	18.75		2.15
305	25	.275	1.700	57.11	7.79	4330	14.58	32.48		2.21
1310	30	(275)	1.475	5711	7.80	4320	14.54	13.85		2.26
			9,000-	,		4.	20			
		1218	2/			- 10	X	D		
		July 1	81/				( )JIG			
		, /	\ \				0			
			V							
			1							
				4						
			0							2
Durging	Field Note	Ac.								
i urging	i iciu Note									

Sample Date/Time: 1315					102009
Sampler's signature/date:			ier	1400	12009
Reviewer's signature/date:	Math	Most	10/2	2/09	

FORT	WINGA	TE DEPOT	ACTIVITY			Well Nu	ımber:	TV	иша	4
LOW	FLOW W	ELL SAM	PLING DAT	A FORM	1	Start D	ate:	14	oct	2009
						Start Ti	me:	14	20	-
Well C	asing Diam	eter (in):	2			Well TI	):	7	2,25	
Bore H	ole Diamet	er (in):	8			Well D7	TW:	50	5.36	
Annula	r Space (AS	S) Length (ft):	22			Water C	olumn:		5.89	-
Screene	ed Interval (		50-71	2		Pump Ir	itake (ft bg	gs): 7	0,25	-
			LUMĚ CALČU		¥ 3	1 15		^	フフ	
			foot of annular water or length						173	2
			vater of length vater in AS (ga		nenever	3 (033)			160	5
			foot of casing		rt on back	c)			173C	163
		Column of v							5,89	-
			water in casing		71 / A.C				.59	-
			VALENT VOI OLUME PUR			casing, gai	)		3.48 .7-Ga	0
Method	l of Purging		OLC ML I CK	LOW	How				·Lac	-
								[ m 1 · 1		
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1430	0	330	330	56.36		400.0	13.80	23.80		5.38
1435	5	260	1.3		7.81	397.0	13.73	182.3		3.97
1440	10	260	2.6		7.85	397.0	13.76	190.2		3.17
1445	15	260	3.9		7.89	397.0	13.80	192.9		3.04
1450	26	260	5. 2	57.32	7.94	3960	13.71	203.7		2.85
1455	25	260	6.5		7.95	3950	13.75	1996		2.73
1500	30	260	7.8	1	7.97	3940	13.76	244.9		2.61
1505	35	260	9.1	57.44	7.97	3940	13.74	246.9		2.58
				_	24/	1,	940			
			1	1-2	1 1	70	110	TIV		
				do	(A)		1	100		
					A					
_										
Purging	g Field Note	es:								
		I.								
Sample	Date/Time	: 1510 1	40CT 09	Sampl	le ID/TR	#:_TW	w04	10 2009	)	
	er's signatur		-	11/2	2110	, 10	-007	20710	3	
				124	not	10	122/10			
Review	ver's signatu	ne/date.	- ///	1011/11	11011	C	0)107			

			ACTIVITY PLING DAT		I	Well No		To	1W-	7-09
Bore He Annula	asing Diam ole Diameter Space (AS ed Interval (	er (in): S) Length (ft): (ft bgs):	2 8 12 45-5 UME CALCU		15	Start Ti Well TI Well Di Water Ci Pump In	D: FW:	0 57 47 10 58: 55	910	- - -
Method	l of Purging	Gallons per Column of v Volume of v Gallons per Column of v Volume of v ONE EQUI ACTUAL V	foot of annular water or length water in AS (ga foot of casing	r space (fro of AS (whal) (from char (gal) LUME [EV	t on back (AS +	s less)	)	= C X /0 = V X /0 = V = Y = C	1.39	-
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
0950	0	30	0	47.30	7.78	4940	16.13	1.90		4.57
3955	5	20	0.15	47.30	7,58	4940	16.07	2.00		3.06

			,							
Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
	Elapsed	(mL/min)	Volume (L)	(ft toc)	pН	(µS/cm)	(C)	(NTU)	(mV)	(mg/L)
0950	0	30	0	47.30	7.78	4940	16.13	1,90		4.57
0955	5	30	0.15	47.30	7,58	4940	16.07	2.00		3,06
1605	13	30	0.45	47,25	7.59	3620	17.24	2,54		3.15
1010	20	30	0.6	47.28	7,58	4940	17,56			3.08
1015	25	30	6.75	47,30	7,56	4950	12.39	1,41		2.66
1020	30	30	0.9	47.31	7,54	4940	17.08	1.72		230
1025	35	30	1.05	47.32	7.33	4950	16.72	2.29		200
1030	40	50	1.30	47.36	7.52	4950	16.16	1,55		1.70
1035	45	50	1,55	47.36	7.52	4950	16.00	1.38	4	1.59
1037	47	50	1.65	47.36	7,52	4950	16,00	1.29		1.61
1039	49	50	1.75	47.36	7.32	4950	15.91	0,86		1.61
1040	50	50	1.8	47.36	7,52	4950	15.92	120		1.61
			0					,		
Fin	al wo	eter o	level 1	et 1	305	= 4	17.3	9		
								*		

	Purging Field Notes:				
	2	1 MS72 110	a la la Da	11.5-4	
	DERAN DUTGUE Q	T 0/30, VE	4 clear water. K	ogan w purgo 6	500
	N- 60-1 101	- 30.1/1	I reduced 1	In !	6000
a	nock - 10 Sec. 410	w- Soup ne	· Made CAME	o to recharge to	60sa
	./ 1-	9 1/00 6	e, ID/TR #: TMW06102009	Flant Marine	10
	Sample Date/Time: 10-17-1	9 109 Sampl	e ID/IR #: ///www.	. I was increased	10
	Sampler's signature/date:	1 Martik	all 10-17-77	50 ml, min 9	X
	Sampler's signature/date.	14/1 -11 MAY 1	110	1. 4	vax
	Reviewer's signature/date:	MUNT MUNT	10/23/09	court eng	
	reviewer's signature date.	- 11/00/11/1000		state Possu	10 =
				Diroce from	Ce
				20151.	
				77/41/41	

			ı		Well Numb Start Date: Start Time	:	TMW 10/19/	07 109 3	
Well Casing Diameter (Bore Hole Diameter (in) Annular Space (AS) Les Screened Interval (ft bg	): ngth (ft):	2 8 12 57.37	67,37	•	Well TD: Well DTW: Water Colu Pump Intak	ımn:	67. 47.79 19.5	8	
WELL VOLUME CAL	CUATION								
Column of volume of TOTAL VO	water in casi VALENT VO EV to be pui LUME TO B OLUME PUR	gth of AS (what gal) Ing (from channing (gal) LUME [EV] Inged E PURGED RGED (gal)	nichever is le art on back) (AS + casing (gal)	ess)	= X = = X = X = = X	0.11 19. 3.1			
Field Parameters					Reading				
Time	that 3	1215	1216	1505	1519	1529			Final
Volume (gal)	INITIAL	)	2	3	5	6			Sample
Flow Rate (gpm)									N/A
DTW (ft toc)									
pH	7.16	7.38	7.50	6.99	7.56	7.81		. (	
Conductivity (ųS/cm)	5076	5090	5080	5080	5190	15340	- 53	HDA	NO
Temperature (°C)	14.51	1405	13.99	13.39	13.19	13.20		. 0	,
Turbidity (NTU)	26.4	48.5	110	-	232	459			
Eh/Redox (mV)									
DO (mg/L)	6.32	3.16	2.74	6.50	3.25	3.93			
	WITH	12 V P1				NISHINO	; PURC	SING.	
Sample Date/Time: Sampler's signature/o Reviewer's signature/		10/20/ Fredm	109 C	0840 lebhan 10/23/	of g	Sample ID	/TR #:	TMWO	7102009

Start Date:   17-04-09	FORT W	INGAT	E DEPOT	ACTIVITY			Well Nu	ımber:	E	MWD	HT)	MW-
Well Casing Diameter (in):	LOW FL	ow w	ELL SAMI	PLING DAT	A FORM	1	Start Da	ate:		17-00	t-09	
Time Minutes Flow Rate Cumulative DTW Volume (L) (fytoe) pH (µS/cm) (C) Turbidity Redox (mL/min) Volume (L) (fytoe) pH (µS/cm) (C) (NTU) (mV) (mg/L) (MTU) (	Bore Hole I Annular Sp. Screened In	Diamete pace (AS interval (f	r (in): ) Length (ft): it bgs): WELL VOL Gallons per Column of v Volume of v Gallons per Column of v ONE EQUIT ACTUAL V	Jume CALCU foot of annular vater or length vater in AS (ga foot of casing vater vater in casing	JATION r space (fro of AS (wh al) (from chai  (gal) LUME [EV	t on back V] (AS +	Well TE Well DT Water C Pump In on back) is less)	D: FW: Column: ntake (ft bg	= 0 X 25 = 18 = 0.16 X 75 = 4 = 23	925 15 (1) 5.76 0.41 173 1.76 1.81 3 1.76 20 11	6.65	
Elapsed (mL/min) Volume (L) (ff. toe) pH (µS/cm) (C) (NTU) (mV) (mg/L)  010 0 50.0 0				Cumulative	DTW	4			Turbidity	Redov	-   DO	
015 5 50.0 0.25 36.65 7.24 1640014.69 180.1 2.10 020 10 50.0 0.50 36.65 7.34 1640014.69 180.1 1.60 025 15 50 0.75 36.65 7.35 16400 14.63 84.58 1.51 030 20 50 1.0 36.65 7.36 16400 14.68 75.37 1.49 1035 25 50 1.25 36.65 7.37 16400 14.75 76.96 1.341 040 30 50 1.50 36.65 7.38 16400 14.75 69.97 1.28 1045 35 50 1.75 36.65 7.38 16400 14.82 78.42 1.28		lapsed				рН			(NTU)			
020 10 50.0 0.50 36.65 7.34 16400 14.67 132.8 1.60 025 15 50 0.75 36.65 7.35 16400 14.63 84.58 1.51 030 20 50 1.0 36.65 7.36 16400 14.68 75.37 1.49 035 25 50 1.25 36.65 7.37 16400 14.75 76.96 1.34 040 30 50 1.50 36.65 7.38 16400 14.75 619 7 1.28 045 35 50 1.75 36.65 7.38 16400 14.82 78.42 1.28	010	0	50,0	0	1447	6.91	15300	14.84	85.78		4-16	
25 15 50 0.75 36.65 7.35 16400 14.63 84.58 1.51 030 20 50 1.0 36.65 7.36 16400 14.68 75.37 1.49 035 25 50 1.25 36.65 7.37 16400 14.75 76.96 1.3-1 040 30 50 1.50 36.65 7.38 16400 14.75 619.7 1.28 045 35 50 1.75 36.65 7.38 (6400)4.82 78.42 1.28	015	5	50.D	0.25	36.65	7.24	16400	14.69	180.1		2.10	,
030 20 50 1.0 36.65 7.36 16400 14.68 75.37 1.49 035 25 50 1.25 36.65 7.37 16400 14.75 76.96 1.341 040 30 50 1.50 36.65 7.38 16400 14.75 619 7 1.28 045 35 50 1.75 36.65 7.38 (6400)4.82 78.42 1.28	020 1	10	50.0			7.34	16400	14.67	132.8		1-60	
035 25 50 1.25 36.65 7.37 16400 14.75 76.96 1.34 040 30 50 1.50 36.65 7.38 16400 14.75 619.7 1.28 045 35 50 1.75 36.65 7.38 16400 14.82 78.42 1.28	25 1	15	50	0.75	36.65	7.35	16400	14.63	84.58		1.51	
040 30 50 1.50 36.65 7.38 16400 14.75 6197 1.28 045 35 50 1.75 36.65 7.38 16400 14.82 78.42 1.28	230 Z	0	50	1.0	36.65	7.36	16400	14.68	75.37		1.49	
045 35 50 1,75 36.65 7.38 (6400)4.82 78.42 1.28	035 2	5	50	1.25	36.65	7.37	16400	14.75	76.96		1.321	
	040 3	0	50	1.50	36.65	7.38	16400	14.75	6197		1.28	
7 1640	045 3	35	50	1,75	36.65	7.38	16400	14.82	78.42		1.28	
								9 160				

FORT	WINGA	TE DEPOT	ACTIVITY			Well N	umber:	iTW	11010	)
LOW	FLOW W	ELL SAM	PLING DAT	A FORM	1	Start D	ate:	19	OCT ?	2009
Bore H Annula Screen	asing Diam fole Diamete or Space (AS ed Interval (	er (in): S) Length (ft) (ft bgs): WELL VOI Gallons per Column of v Volume of v Volume of v ONE EQUI ACTUAL V	J123-L LUME CALCU foot of annular water or length water in AS (ga foot of casing	JATION r space (from character) (from character) (gal) LUME [EV.GED (gal)	nichever in the state on back of the state o	on back) s less)	D: ΓW: Column: ntake (ft bg	36	310 1,80 99 ,81 ,47 73 81 ,11 163 ,81	
Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
1210	Elapsed	(mL/min)	Volume (L)	(ft toc)	pH	(µS/cm)	(C) ·	(NTU)	(mV)	(mg/L)
1315	5	100		36,99	761	7100	16:65	38.00		0.11
1370	10	100			759	7160	15.45	1771		0.00
1275	15	100			7.107	7,00	15 50	906		0.00
1330	20	1077	1		7.1.2	7.030	1646	7.02		0.07
137	25	100	1.50	37.20	76	1074É	16.70	7.09		0.06
1			2.5	01:20	4		1	n . /		0.00
			1			1	124	X		
			0			7	4.0	W.		
							0	t and		
						-				
							4,45.			
								5 Y		
			=							
20		50n =	30psi					O SIST S		
Sample	Date/Time er's signature er's signatu	e/date:	102009 0 Del	Samo	e ID/TR	#: <u>15°</u> 23 007	2000	<u>40</u> 0 2	009	

								_ ^	-		
FORT	WINGA	TE DEPOT	ACTIVITY			Well Nu	ımber:		1W-	11	
LOW	FLOW W	ELL SAMI	PLING DAT	A FORM	I	Start Da	ate:	10	-20.	-09	
			0			Start Ti	ime:	920	7		
Well Ca	asing Diam	eter (in):	2			Well TI	):	80	2.52	, ,	
	ole Diamete		8			Well D7		64	,61		
Annula	Space (AS	S) Length (ft):	27			Water C	Column:	15	.91	į.	
Screene	d Interval (		55-4			Pump In	ntake (ft bg	gs): <b>8</b> 60	,52	<u> </u>	
			LUME CALCU					^	73		
			foot of annula vater or length					$=$ $\frac{U}{X}$	/0/	ě	
			vater of length vater in AS (ga		nenever i	15 1055)		= //	.61	*	
			foot of casing		t on back	()		= 0,1	63	•	
		Column of v						X 15	,91		
			water in casing	the state of the s	71 / A.C.			= 2.	59		
			VALENT VOI OLUME PUR		A	casing, gai	,	= 77	6	į.	
Method	of Purging		104)	flou						1	
Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Tamp	Turbidity	Redox	DO	
THIC	Elapsed	(mL/min)	Volume (L)	(ft toc)	рН	(μS/cm)	Temp. (C)	(NTU)	(mV)	(mg/L)	
0940	0	40	0	66.70	8.35	2200	17.25	275.9		5.99	
0945	, 5	40	0.2	66:72	8,08	2230	16.79	277,5		4.20	
0950	10	40	6.4	66.76	27.99	2240	16.20	236.9		3.00	
0965	15	40	0.6	66,70	7.97	1240	15,34	190.6		2.52	
1000	20	40	0,8	66.72	7.95	2230	15.05	162.4		2.27	
1005	25	40	1.0	66.72	7.94	2220	15,8"	7132.1		221	
1010	30	40	1.2	66.72	7,94	2220	16,28	109.0	Ų1 į	2.19	
1015	35	40	1,4	66.72	7.94	2220	16.33	91.14		2.11	
1020	40	40	1.6	66.72	7.95	2200	16.81	76.59		2.04	
1025	45	40	1,8	66.72	7.95	2220	17.00	67.39		2.02	
	50	40	2.0	66.72	7.90	2210	17.06	58.78		2.18	
	.52	40	2,08			4		(51.77		2.37	
			-					7			
1037	57	40	2,28	66 1	7.10	200	10.0	49.05		2.62	
					0						
1315		ting	O was	er	Keus	0=	66.7	2			
		, , , ,									
	l	l	I	1							
Purging	Field Note	es:								0	
Pro	50 =	4600	purge	27	Soc	1200	BZ	5550	C . 1	+ Alo	W
460	11/1	· Fall	pu ige		1	100			- /		-
10	MIIN	115-21	-09 11g	0 -	III mr	" TM	10111	2000			
Sample	Date/Time	1000	-07 119	○ Sampl	e ID/TR	#: / 101	10/11/	32007			

Sample Date/Time: 10-20-09 1160 Sample ID/TR #: TMW11 10 2009
Sampler's signature/date: Trant Lollo 18-20-09
Reviewer's signature/date: 4444444 10 2369

			ACTIVITY		1	Well No		In	1W1:	3	
Well Ca Bore He Annular Screene	asing Diam ole Diameto r Space (AS ed Interval (	eter (in): er (in): S) Length (ft): (ft bgs): WELL VOI Gallons per Column of v Volume of v Volume of v ONE EQUI ACTUAL V	2 8 12 60.7 - C LUME CALCU foot of annula water or length water in AS (ga foot of casing water water in casing VALENT VOI OLUME PUR	Jo, 7 JATION r space (from character) (from character) (gal) LUME [EVALUME [EVALUME] [EVALUME [EVALUME [EVALUME [EVALUME] [EVALUME [EVALUME] [EVALUME] [EVALUME [EVALUME] [E	om chart nichever rt on back V] (AS +	Start Ti Well TI Well Di Water C Pump In on back) is less)	ime: D: TW: Column: atake (ft bg	73. 59 13 13 13 13 13 14 15 17 17 17 17 17 17 17 17 17 17	78 199 179 179 175 176 163 163 163 163 163 163 163 163 163 16		
	of Purging		10W	4/04	)					-	W
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)	
1025	0	70	0	60.10	7.62	2340	13.32	1.61		4.10	
1030	5	70	0.35	60,10	7,53	2330	13.65	1 - 2		2.83	
1035	10	70	0.70	60.11	7.50	2330	13.93	0.54		2.29	
1040	15	70	1.05	60.11	7,50	2330	14.03	0,41		2.10	
1045	20	70	1.4	60.11	7.50	2330	14.21	0.15		1.91	
1050	25	70	1.75	60,11	7.51	2330	14.36	0.35		1.77	
1055	30	70	2.1	60.11	7.51	2330	14.40	0.41		1.72	
1100	35	70	2.45	60.11	7,51	2330	14.47	0,42			
1105	40	70	2.8	60.11	7.51	2350	14.44	0.11		1.69	
1107	42	70	2.94	60.11	7,51	2340	14.42	0.33		1.61	
1109	44	70	3,08	60.11	7,51	2350	14,40	5	11	1.62	
1215		0		60.11							
1240				60:11	=	final.	ivater	leve	<u></u>		
			Surging 1/min						noci y c	1=30 lear	wa!
Sample	Date/Time		9 1139	Sampl	e ID/TR	#: TMU	0-22				

FORT WINGATE DEPOT ACTIVITY	Well Number:	TMW-	14A
LOW FLOW WELL SAMPLING DATA FORM	Start Date:	10-27	1-07
0	Start Time:	0820	
Well Casing Diameter (in):	Well TD:	110.1	
Bore Hole Diameter (in):	Well DTW:	62.41	with ZIST
Annular Space (AS) Length (ft):/7	Water Column:	49,69	UNCOCKE
Screened Interval (ft bgs): 94,25 - 109,25	Pump Intake (ft bgs)	: 98,7	
WELL VOLUME CALCUATION			
Gallons per foot of annular space (from cha	art on back)	= 0.73	
Column of water or length of AS (whicheve	er is less)	x 17	
Volume of water in AS (gal)		= 12.41	
Gallons per foot of casing (from chart on ba	ack)	= 0,163	
Column of water		x 49.69	
Volume of water in casing (gal)		= 8.10	
ONE EQUIVALENT VOLUME [EV] (AS	+ casing, gal)	= 20,51	
ACTUAL VOLUME PURGED (gal)	3 20 3073007000173	= /	
Method of Purging: low flow			

Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
-	Elapsed	(mL/min)	Volume (L)	(ft toc)	pН	(µS/cm)	(C)	(NTU)	(mV)	(mg/L)
0.855	0	60	0	63.44	8.14	1880	11.37	10.14		2.49
0900	5	50	0.3	63,72	8.43	1880	10.81	9.57		1.94
0905	10	50	0.55	63.72	8.49	1870	10,90	12.68		1.76
0910	15	50	0.8	63.72	8,53	1870	11.07	9.11		1.56
0915	20	50	1.05	63,76	8,61	1870	11.32	13.17		1.39
0920	25	50	1.3	63.72	8,68	1870	11.18	8.03		1.28
0925	30	50	1,55	63.75	18.72	1880	11.17	4,87		1.19
0930	35	50	1.8	63.72	8.74	1820	11:29	3,22		
0935	40	50	2.05	63.72	8,75	1280	11.39	6.46		1.08
0940	45	50	2.3	63.72	8.77	1980	11:41	6,37		1.01
0945	50	50	2,55	63.72	8.78	1890	11.35	1.86		0.78
0950	55	50	2.8	63.72	8.78	1890	11.37	4.79		0.92
0955	60	50	3.05	63.72	8.77	1890	11.51	3.01		0.86
1000	65	50	3,3	63.72	8.78	1890	11.85	2.80		0.84
1002	67	50	3,4	63.72	8,79	1890	12.17	1,18		0.82
100.5	70	50	3.55	6372	8,78	1890	12.54	1.90		0,23

Purging Field Notes: Very clear mater w strong Sulfur odar. Did not dock 21ST and 0900 hrs, by which time drawdown = 631, Upon docking 21ST at 0900, drawdown stable throughout parameter measurements.

Pressure = 55 psi reck = 60 soc, pungo = 5 soc, flow = 50 ml/min

Sample Date/Time: 10-27-09 1815 Sample ID/TR #: 1 mw14A102009 Fw01102009 =

Sampler's signature/date: 10/28/09 blind dien 
Reviewer's signature/date: 10/28/09 time 1500 hrs

Final water level = 63.79 at 1550 hrs

FORT WINGATE DEPOT ACTIVITY	Well Number:	JMW15
LOW FLOW WELL SAMPLING DATA FORM	Start Date:	10-26-09
	Start Time:	0845
Well Casing Diameter (in):	Well TD:	76.65
Bore Hole Diameter (in):	Well DTW:	64.33
Annular Space (AS) Length (ft):/7	Water Column:	12.32
Screened Interval (ft bgs): 56-7/	Pump Intake (ft bgs):	74.65
WELL VOLUME CALCUATION		A M 7
Gallons per foot of annular space (from characteristics)	art on back)	= 0,75
Column of water or length of AS (whichev	er is less)	12.32
Volume of water in AS (gal)	820	= 8,79
Gallons per foot of casing (from chart on b	ack)	= 0,163
Column of water	2	12.32
Volume of water in casing (gal)	= =	= 2.01
ONE EQUIVALENT VOLUME [EV] (AS	S + casing, gal)	= 11,00
ACTUAL VOLUME PURGED (gal)	=	= 0.75
Method of Purging: 10w 10w		
Time Minutes Flow Rate Cumulative DTW		

Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
	Elapsed	(mL/min)	Volume (L)	(ft toc)	рН	(µS/cm)	(C)	(NTU)	(mV)	(mg/L)
0920	0	120	0	64,56	7.78	2290	12,55	4.27		1.88
0975	5	60	0.6	64,51	7,79	2290	12.05	2.70		1.74
0930	10	60	0.9	64.46	7.65	2300	12.23	1.28		1.96
093	5 15	60	1.2	64.42	7.60	2300	12.39	2.94		1.92
0940	20	60	1.5			2300				1.80
0945	25	60	1.8	64,41	7,59	2300	12.61	1,49		_
0950	30	60	2.1	64.41	7.60	2300	12.77	1.57		1,86
0955	35	60	2.4	64.41	7.61	2300	13.01	1.35		1,84
1000	40	60	2.7	64,41	7.61	2300	13.07	137		1.85
1300	>			6441	1	0				
1445		W		64.41	= 1	final	was	er/o	vel	
			-							

Purging Field Notes: Began purging at 0905. Initial sattings of P = 55 Asi, rech = 30 sec, c pungo = 12 sec resulted in flow of 7120ml/men and gathing sample ID/TR #: TMW15/03009 - primary a QC art follo 10/34/09 FW Q5/03009 - blind dup 1400his Reviewer's signature/date: recharge to 40 Sec. Flow was 60-70 milimus.

		Well Number: Start Date: Start Time:	10/15/09 1006	
Well Casing Diameter (in):	2	Well TD:	142.2	
Bore Hole Diameter (in):	8	Well DTW:	55.40	
Annular Space (AS) Length (ft):	17	Water Column:	86.8	
Screened Interval (ft bgs): /5	127-2-142.2	Pump Intake (ft bgs)	140,2	

#### WELL VOLUME CALCUATION

Gallons per foot of annular space (from chart on back)	=	ONH832,73
Column of water or length of AS (whichever is less)	Χ	15
Volume of water in AS (gal)	=	10.92
Gallons per foot of casing (from chart on back)	=	.1632
Column of water	X	86.8
Volume of water in casing (gal)	=	14.19
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	=	25.09
Number of EV to be purged	X	'3
TOTAL VOLUME TO BE PURGED (gal)	=	75,27
ACTUAL VOLUME PURGED (gal)	=	20.0

Method of Purging: BENNETT PUMP

Field Parameters					Reading				
Time	1006	1009	1010	1016	1022	1028	1032	1036	1042 Final
Volume (gal)	INITIAL	2	4	7	10	13	15	17	Sample 20
Flow Rate (gpm)									N/A
DTW (ft toc)	55.40								
рН	7.65	8-11	8,28	8.39	8.50	8,49	8.57	8.65	8.67
Conductivity (ųS/cm)		1830	1818	1810	1740	1530	1776	1850	2170
Temperature (°C)	12,82	12.85	12.80	12.78	12.76	12,75	12.79	12.83	12.92
Turbidity (NTU)	114	35.2	22.4	31.0	68.6	146	1062	843	568
Eh/Redox (mV)									
DO (mg/L)	5.91	2.45	1.83	1.80	1.33	1.25	1.27	1.18	1.01

Purging F	ield Notes:		
0			

PUMPED WELL DRY, SAMPLED AFTER RECHARGE.

	/ /			T 1: 10
Sample Date/Time:	10/20/09	1200	Sample ID/TR #:	TMW161020

Well Number: Start Date: Start Time: Well TD: Well Casing Diameter (in): Well DTW: Bore Hole Diameter (in): Water Column: Annular Space (AS) Length (ft): Pump Intake (ft bgs) Screened Interval (ft bgs): WELL VOLUME CALCUATION Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) X = Volume of water in AS (gal) Gallons per foot of casing (from chart on back) = X Column of water Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) X Number of EV to be purged 40 TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal) Method of Purging:

Field Parameters		Miles and the second			Reading				
Time	1400	1408	1413	14215	1426	1433	1440	1445	Final
Volume (gal)	INITIAL	3	5	8	10	13	16	17.5	Sample
Flow Rate (gpm)									N/A
DTW (ft toc)	54.36							157.16	
pH	10.99	10.96	10.98	10,95	10.93	10.95	11.15		
Conductivity (ųS/cm)	3100	30 20	2990	2990 Awy	23010	BURG	3040		
Temperature (°C)	13.21	13.48	13,20	13.10	13,12	13.12	13.13		
Turbidity (NTU)	660	45,5	15,9	10.7	13.0	20.2	113.7		
Eh/Redox (mV)		-							
DO (mg/L)	0.39	0.34	0.29	0,27	0,20	0,21	0.18		

PURGED WELL DRY, ALLOWED TO RECHARGE THEN SAMPLY PORGED AN ADDITIONAL 3 GALS BEFORE SAMPLING.	Purging Field No	tes:							
FORES DI ADDITIONALLY ZIGHIS REFEREN SAMPLING.	DIRIGED	1118	LL DRY	ALLO	DWED	TO	RECHARGE	THEN	SAMPLED
TIKINE IN THE STATE OF THE STAT	FOR OF D	nul	ADDITIO	AIAL	7/	HALS	REFORE	SAM PL	1 NG.

Sample Date/Time:

Sampler's signature/date: Reviewer's signature/date: 10/23/09 1040 Fustur 4 Hebband

Sample ID/TR #:

TMW 18102009

Method of Purging:

Well Number: Start Date: Start Time: Well Casing Diameter (in): Well TD: Bore Hole Diameter (in): Well DTW: Annular Space (AS) Length (ft): Water Column: Screened Interval (ft bgs): 15 Pump Intake (ft bgs) WELL VOLUME CALCUATION Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) X Volume of water in AS (gal) Gallons per foot of casing (from chart on back) Column of water Χ Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) Number of EV to be purged X TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal)

BENNETT PUMP

Field Parameters					Reading				
Time	/113	1117	1120	1124	1129	1133	11.38	1145	\ Final /
Volume (gal)	INITIAL	.3	5	7	10	13	15	18	Sample
Flow Rate (gpm)				·	,				N/A
DTW (ft toc)	42.33				តា				X
рН	7.92	8.17	8-19	8.23	8,27	8,27	8,26	8.24	$\wedge$
Conductivity (ųS/cm)	2920	2900	2870	2840	2620		2490	2450	
Temperature (°C)	12.63	12.82	12.79	12.77	12.72	12.68	12.71	12.74	
Turbidity (NTU)	58.2	145	155	284	544	728	787	1100+	
Eh/Redox (mV)									1
DO (mg/L)	4.17	1.56	1.25	1.05	1.34	1.05	0.88	0.86	,

#### **Purging Field Notes:**

PURUED WELL DRY,	ALLOW TO	RECHARO	E THEN COLLECTED
			BEFORE COLLECTING
SAMPLE ON 10/23.			
, -			

Samp	le l	Date	e/Tir	ne:
------	------	------	-------	-----

Sampler's signature/date:

Reviewer's signature/date:

10/23/09 0900 Fredrick S. Belland Mr. A. M. A. 10/22/09

Sample ID/TR #:

TMW19102009

WELL SAMPLIN	G DATA F	ORM					
					Well Number:	TMW	9
					Start Date: Start Time:	10/15/	3
Well Casing Diameter (in): Bore Hole Diameter (in): Annular Space (AS) Len Screened Interval (ft bgs	gth (ft):				Well TD; Well DTW: Water Column: Pump Intake (ft bgs)		
WELL VOLUME CAL	CUATION						
Column of v Volume of v ONE EQUIV Number of E	vater or leng vater in AS ( foot of casin vater vater in casin /ALENT VOI EV to be pur LUME TO BE DLUME PUF	th of AS (whigal)  ng (from chain  ng (gal)  LUME [EV] ( ged  E PURGED	rt on back) (AS + casing	ess)	= X = = X = = X = = = X = = = = = = = =		
Field Parameters					Reading		
Time	1150	1156	1200	1206			Final
Volume (gal)	20	22	24	26			Sample
Flow Rate (gpm)							N/A
DTW (ft toc)							
рН	8,27	8.31	8.34	8.55		38	
Conductivity (ųS/cm)	2480						
Temperature (°C)	12.75	7	12.76	- /			
Turbidity (NTU)	968	979	709	1315			
Eh/Redox (mV)							
DO (mg/L)	0.93	0.88	0.93	0.82			
Purging Field Notes:							-
Sample Date/Time: Sampler's signature/ Reviewer's signature		10/23/09 Justini	9 0980 9. H	O Charles	Sample	e ID/TR #:	

FORT WINGATE DEPOT ACTIVITY LOW FLOW WELL SAMPLING DATA FORM	Well Number:	TMW 21
20 W 120 W WELL SAMI LING DATA FORM	Start Date:	10-24-09
and the same of th	Start Time:	0855
Well Casing Diameter (in):	Well TD:	61,31
Bore Hole Diameter (in):	Well DTW:	50.49
Annular Space (AS) Length (ft):	Water Column:	10.82
Screened Interval (ft bgs): 48-58	Pump Intake (ft bgs	1: 50 98
WELL VOLUME CALCUATION	1 , 5	
Gallons per foot of annular space (from cha	art on back)	= 0,73
Column of water or length of AS (whichever	er is less)	x 10.82
Volume of water in AS (gal)		= 7.90
Gallons per foot of casing (from chart on ba	ack)	= 0.163
Column of water		x 10.82
Volume of water in casing (gal)		= 1.76
ONE EQUIVALENT VOLUME [EV] (AS	+ casing, gal)	= 9.66
ACTUAL VOLUME PURGED (gal)	0.0 /	= 2.4
Method of Purging:		

Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	n.II	Cond.	Temp.	Turbidity	Redox	DO
0925	0	100	O C		pH	(μS/cm)	(C)	97.59	(mV)	(mg/L)
BYL	15	10000				2640	12.81	,		2.55
0740	15	100	p.5			2640	13.00	71.62		1.82
0945	20	100	2.0	51.59	7.69	2640	13.16	55.26		1.76
0950	25	100	2.5	51.62	7.70		13.25	50,97	7	1.62
0956	30	100	3.0	51.68	7.70	2640	13.21	47.81		
1000	35	100	3.5	51,73	7.70	2640	13.10	48,50		1.43
1005	40	100	4.0	5478	7.70	2640	13,26	50.36		1.31
1010	45	100	4,5	51,83	7.71	2640	13,36	61.13		1.18
1015	50	100	5.0	51.87	7.71	2640	13.64	72.58		1,10
1020	55	100	5.5.	51.93	7.71	2640	13.87	96.12		1,02
1025	60	100	6.0	51.95	7.7/	2640	13.92	111,5		0.96
1030	65	100	6.5	51.98	7.72	2640	13.92	118.3		0.94
1035	70	100	7.0	51,99	7.71	2640	14,13	124.0		0.88
1040	75	100	7.5	52.01	7.71	2640	14,12	126.7		0.87
1045	80	100	8.0	52.01		2640	/	- 0		0.84
1050	85	100	8.5	52.01	7.71	2640				0.82

Purging Field Notes: Boger Purging at 0910, With in the press of 30/5, 10

Hen. Thereard P to 40 ps + then 50 ps be fore flow appeared. Le chead

P to 30 ps + flow continued for awa from lock > 30 sec. Purgo = 7 sec

Sample Date/Time: 10 29-09 1190 Sample ID/TR #: TMW21102009 Flow = 100 ml/him

Sampler's signature/date:

Reviewer's signature/date:

Matthetato 10 2409

PS 20f2

FORT	WINGA	TE DEPOT	ACTIVITY	7		Well N	umber:	7	MW	21	
LOW	FLOW W	VELL SAM	PLING DAT	A FORM	А	Start D			10-2	4-09	
						Start T		-	085	3	
Well C	asing Diam	eter (in):				Well T			Co		
	ole Diamet					Well D				-	
		S) Length (ft):					Column:	4		-	
	ed Interval (						ntake (ft bg	·		_	
			LUME CALCI	UATION		1 dilip 1	inune (11 og			-	
			foot of annula					=		0	
			water or length		hichever	is less)		X		$\Sigma$	20
			water in AS (ga	( A)				=		- ^	
			foot of casing	(from cha	rt on bac	k)		=		- 13	23
		Column of v	vater vater in casing	(I)				X		_ /	, V
			VALENT VO		VICAS	oneina anl	`	=			/
			OLUME PUR			casing, gai	,			- '	
1ethod	of Purging			(Bu)	-					-0	
				I		T -			,	-	
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity	Redox	DO (ma/L)	
2	87	100						(NTU)	(mV)	(mg/L)	
24	21	100	8,7	5201	1.11	2640	14,28			0.83	
120				52.01							
126				-	ļ ,	2					
150				52.01	= 4	nal in	10 kg	loves			
					1		SE P 0	Total Control			
						ļ					
						13					
-											
-							- 2			l	
arging	Field Note	s: With in	4		*						
-000 HTM											
ample !	Date/Time:			Sample	e ID/TR	#:					
	's signature										
1000	1204										
eviewe	er's signatur	re/date:	-								

Well Casing Diameter		Well Number: Start Date: Start Time: Well TD:	10-1	3-09
Bore Hole Diameter (in		Well DTW:	78.7	7
Annular Space (AS) Le Screened Interval (ft bo		Water Column: Pump Intake (ft bgs)	No Fum	
WELL VOLUME CA	LCUATION			
Gallons pe	r foot of annular space (from chart on back)	= _ O,	73	
Column of	water or length of AS (whichever is less)	x/	2	
Volume of	water in AS (gal)	= 8.	76	
Gallons pe	r foot of casing (from chart on back)	= 0./	63	
Column of	water	x 16,	42	
Volume of	water in casing (gal)	= 2.	68	
ONE EQUI	VALENT VOLUME [EV] (AS + casing, gal)	= //.	44	
	EV to be purged	X	3	
TOTAL VO	LUME TO BE PURGED (gal)	= 34,	32	
ACTUAL V	OLUME PURGED (gal)	= -	4	
Method of	Purging: bailer			
Field Parameters		Reading		
Time	1630 1640 1650			Final
Volume (gal)	0.75 2.5 4			Sample
Flow Rate (gpm)				N/A

Field Parameters					Reading			
Time	1630	1640	1650					Final
Volume (gal)	0.75	2.5	4					Sample
Flow Rate (gpm)	):		· .					N/A
DTW (ft toc)	54.74	57.70	61.40					
рН	7.52	7.72	7.77					
Conductivity (ųS/cm)	3480	3590	3490			139		
Temperature (°C)	12.74	12.71	12.83	ga nastyri	200			
Turbidity (NTU)	340.6	621,9	7/000					
Eh/Redox (mV)								
DO (mg/L)	0.59	0,28	0.24				10	

0,01	0.00			
Purging Field Notes:	- at beginning	of bailing	s a ko	care
Drogressively 1	Tou dies Baile	d 6 301	Hotal	bolore
well was	dry	0 '		
	0 - 2 - 00	coled Sample ID/ 0-13-09	TD #-	
Sample Date/Time:	10 de acon de Colli	Sample ID/		
Sampler's signature/date:	Frant Roll 1	0-13-09		
Reviewer's signature/date:	MAMMAT 10/23/09			

WELL SAMPLII	NG DATA	FORM							
Well Casing Diameter (Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bg	): ngth (ft):		2 8 12 62	- - -	Well Nur Start Dat Start Tim Well TD: Well DTV Water Co Pump Inte	te: ne: V:	16.	W 22 -19-0 815 .23 94 29	9
WELL VOLUME CA	CUATION	N							
Column of Volume of Gallons per Column of Volume of Volume of States	water or len water in AS r foot of cas water water in cas VALENT VC EV to be pu LUME TO E OLUME PU	gth of AS (v (gal) ing (from ch sing (gal) DLUME [EV] irged BE PURGED RGED (gal)	, -	less)	= X = X = X = X	Viously	Durga	d and	Arra
Field Parameters					Reading		, 0		meas.
Time				T			T		Final
Volume (gal)									Sample
Flow Rate (gpm)									N/A
DTW (ft toc)									
рН									
Conductivity (ųS/cm)									
Temperature (°C)									
Turbidity (NTU)									
Eh/Redox (mV)									
DO (mg/L)									
Purging Field Notes:  Collecte  were mea	Sures Samp	Il se I previling.	for	Sam	ples Vo p	W 9 Urgen	baile g per	1. Porther	ranet
Sample Date/Time: Sampler's signature/c		10-19	of cant K	090	<u>)</u> 18-19 -	Sample II	D/TR #:	Mw2	210201

Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bg	Anular Space (AS) Length (ft):  Freened Interval (ft bgs):  FELL VOLUME CALCUATION  Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less Volume of water in AS (gal) Gallons per foot of casing (from chart on back) Column of water Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) Number of EV to be purged TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal) Method of Purging:  Field Parameters  The State of Casing (ftom chart on back)  When the control of Casing (from chart on back) Column of water  Volume of water in casing (gal)  ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)  Number of EV to be purged  TOTAL VOLUME TO BE PURGED (gal)  Method of Purging:  Field Parameters  The State of Casing (from chart on back)  ACTUAL VOLUME TO BE PURGED (gal)  Method of Purging:					ber: : :: :: :: :: umn: :: :: (ft bgs)		0 10-13 0 2.5 5.58 90 Plump	-09
Column of Volume of Gallons per Column of Volume of Volume of Number of TOTAL VOACTUAL V	water or leng water in AS r foot of casi water water in cas VALENT VC EV to be pu LUME TO B OLUME PUI	gth of AS (w (gal) ng (from cha ing (gal) DLUME [EV] rged E PURGED	hichever is leart on back) (AS + casing	ess)	= X = = X = X = X = = X	2, 0,1 13, 2,0	73 2 76 63 92 7 03 3	-	
Field Parameters					Reading			1	
Time		1545	1555						Final
Volume (gal)	0.5	2.5	3,5						Sample
Flow Rate (gpm)									N/A
DTW (ft toc)	49.02	54.80	57,34						
рН	7.56	7.74	7.79						
Conductivity (ųS/cm)	3230	3230	3250						
Temperature (°C)	13.40	13,09	13.05		10				
Turbidity (NTU)	825.3	>1000	110,6						
Eh/Redox (mV)	ý.								
DO (mg/L)	0.84	0.57	0.40				, P		
Purging Field Notes:  UCTUMA  OF H.S.g.									
Sample Date/Time: Sampler's signature/o Reviewer's signature/		ND SGA Dri MAN	at Ko	0/1/eck	d 13-09	Sample ID	/TR #:		

Column of Volume of Gallons pe Column of Volume of ONE EQUI	ength (ft): gs):  LCUATION  r foot of ann water or len water in AS r foot of cas water water in cas	nular space ( gth of AS (w (gal) ing (from ch sing (gal) DLUME [EV]	whichever is	less)	Well Numb Start Date: Start Time Well TD: Well DTW: Water Colu Pump Intak	: : umn:	10-1	2-23 19-09 50 72 78	
		RGED (gal)	(gal)		=	8		-: -:	
Method of	Purging :	bai	ler					-	
Field Parameters					Reading				
Time									Final
Volume (gal)									Sample
Flow Rate (gpm)									N/A
DTW (ft toc)									
рН									
Conductivity (ųS/cm)									
Temperature (°C)									
Turbidity (NTU)									
Eh/Redox (mV)								*	
DO (mg/L)									
Purging Field Notes:  Collected  Masured  Water /eve  Sample Date/Time:  Sampler's signature/	previo	Set 07 usly, 45,70	No pe	ples de la	7)	Sample ID	Par Jery Very	Mw 23	sampling water
Reviewer's signature	/date:	_111	MANOS	A-19	23/09				

FORT WINGATE DEPOT ACTIVITY LOW FLOW WELL SAMPLING DATA FORM	Well Number: Start Date:	10-19-09
0	Start Time:	0925
Well Casing Diameter (in):	Well TD:	57,41
Bore Hole Diameter (in):	Well DTW:	39.51
Annular Space (AS) Length (ft):	Water Column:	17.90
Screened Interval (ft bgs): 44-54	Pump Intake (ft bgs):	55.41
WELL VOLUME CALCUATION		0.172
Gallons per foot of annular space (from cha	art on back) =	0.13
Column of water or length of AS (whichever	er is less) X	12
Volume of water in AS (gal)	=	8.76
Gallons per foot of casing (from chart on b	ack) =	0.163
Column of water	X	17.90
Volume of water in casing (gal)	=	2.92
<ul> <li>ONE EQUIVALENT VOLUME [EV] (AS</li> </ul>	( + casing, gal) =	11.68
ACTUAL VOLUME PURGED (SAI)	=	0.3
Method of Purging: 1000 +1000		

Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1000	0	30	0	40.34	7.88	2860	19.21	6.03		3.73
1005	5	25	0.15	46.37	7.81	2070	19.16	3.39		2.6
1010	10	30	0.275	40,41	7.79	7280	18.77	2.10		2.4
1015	15	25	0.425	40,41	7.79	2850	18.66	2,82		2.31
1020	20	25	0.55	40.41	7.79	3840	1900	1,78		2.24
1025	25	25	0.675	46.38	7,80	3840	19.83	1.77		2.25
1030	30	25	0.8	40.38	7.80	3840	20.07	1.53		2.17
1035	35	25	0.925	40.41	7.81	3840	19.80	1.42		2.14
1040	40	25	1.05	40.40			20.01.	233		2.14
1045	45	25	1.175	40.40	7.83	3820	20,15	1.75		2.13
1050	50	25	1.3	40,40	7.84	3830	19.92	1.88		2.11
1050	152	25	1.35	40.40	7.84	3840	19.97	-		2.12
	-									
							,			
1500	Fine	al wa	ter le	uel	- 4	0.5	5			

Purging Field Notes: Took at least 10 min to fill flow thru cell.

Began purging around 0940, Very clear water. In that purget

settings arew water love down too much. Adjusted rech to

Sample Date/Time: 10-19-09 1200 Sample ID/TR#: TMW24/122009 75 Sac, purge

Sampler's signature/date:

Reviewer's signature/date:

Prant 10/23/09 puss to 30pc.

Tawdown then Stabilized during parameter measuraments

			ACTIVITY	7		Well Nu	ımber:	Th	WZ	<u></u>
LOW	FLOW W	ELL SAMI	PLING DAT	A FORM	1	Start Da	ate:	17	00	2009
Bore H Annula	asing Diameto ole Diameto r Space (AS ed Interval (	er (in): b) Length (ft): ft bgs): WELL VOL Gallons per Column of v Volume of v Column of v Volume of v ONE EQUI	LUME CALCU foot of annular water or length water in AS (ga foot of casing	ATION space (fro of AS (wh al) (from char (gal) LUME [EV	nichever i rt on back V] (AS +	on back) s less)	D: TW: folumn: stake (ft bg	2 ( 3) = 0; X 17 = 8;	246 8.24 6.66 1.58 73 76 63 58 15 91	
Method	l of Purging	;:		lou	v flor	N				
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
55	0	13D	0	26.66	8.00	3580	15.12	93.24	Ď I	2:17
258	3	130	.390	2666	7.96	3610	14.70	58.42		1.40
301	6	130	.780	1666	7.96	340	14.62	64.19		1.30
04	9	130	1.170	2666	7.95	340	14-55	54.44		1561
307	12	130	230156	0 26.66	7.96	3600	14.65	59.94		1.03
130	15	130	1.950	26.66	7.96	35900	14.66	50.34	,	1.04
	15	130	2.340	76.66	7.96	35960	14.67	39.68		1.01
									1.5	
Purgin	g Field Note		, 2634	hechar	ge = 2	0 sec.	Pur	ye = 5,5	ec	
Sample	e Date/Time er's signatur ver's signatu			Samp	le ID/TR	#: TM	W 26	10200 2009	T	

FORT WINGATE DEPOT ACTIVITY	Well Number:	TMW 27
LOW FLOW WELL SAMPLING DATA FORM	Start Date:	24 OCT 2009
	Start Time:	1110
Well Casing Diameter (in):	Well TD:	73.26
Bore Hole Diameter (in):	Well DTW:	30-602990
Annular Space (AS) Length (ft):	Water Column:	43.36
Screened Interval (ft bgs):	Pump Intake (ft bgs)	7214
WELL VOLUME CALCUATION		
Gallons per foot of annular space (from chart	on back)	= 6173
Column of water or length of AS (whichever i	s less)	X 12.0
Volume of water in AS (gal)		= 8.76
Gallons per foot of casing (from chart on back	)	= 0.163
Column of water		X 43.36
Volume of water in casing (gal)		= 7.05
ONE EQUIVALENT VOLUME [EV] (AS +	casing, gal)	= 16.02
ACTUAL VOLUME PURGED (gal)	A .	= 275
Method of Purging:	flow	

										-
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1110	0	140		29.90	7.58	147,6	13,69	1.19		1.50
1113	3	140		29.90	7.63	147.9	14,04	248		144
1116	6	140		2990	770	148.7	14.00	2.00		1.34
1119	9	140		29.90	7.72	149.2	-13.93	1.77		130
1122	12	140		2990	7.73	149.3	1398	6.49		1.24
1125	15	140		2990	7.74	151,0	13.98	6.17		1,16
1129	18	140		29.90	7.76	151.0	13.94	4.13		1.13
1131	21	140		29.90	7.76	152,0	13.98	6.22		1.11
1134	24	140	3.36	29.90	7.77	153.0	407	3.10		1.10
						1				
						15	30			
							# DV	_		

Purging Field Notes:		
Dumped from	28.50 to 29.90 pt. 2004	6 on 35 psc .
2 (40 WC/min	counted Stephenation, San	upled at 200 ml/mm
Sample Date/Time: 1130	24 CCT 2009 Sample ID/TR #: TUW 27107009	and main timed
Sampler's signature/date:	applagner 26 oct 2009	and main timed war levely 29.90
Reviewer's signature/date:	MMORT 10/26/05	64

			ACTIVITY			Well No	umber:	TV	11W2	8
LOW	FLOW V	VELL SAM	PLING DAT	A FORM	Л	Start D	ate:	19	OCT	200
Bore H Annula	asing Diamet lole Diamet ar Space (A ed Interval	er (in): S) Length (ft) (ft bgs): WELL VOI Gallons per	UME CALCU	r space (fr		on back)	D: ΓW:	18 18 3 2s): 4	540 0.3 .83 1.47 7.3	-
Method	l of Purging	Volume of v Gallons per Column of v Volume of v ONE EQUI ACTUAL V	water or length water in AS (ga foot of casing water water in casing VALENT VOI OLUME PUR	al) (from cha (gal) LUME [E	rt on back	k)		X = 8 = 0 X 3 = 12 = 12	176	
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1540	0	60	0	18.83	7.40	151.0	18.10	41.81	(III V)	(mg/L)
1543	3	60	,180	18.90	7.47	154.D	17.87	37.ID		0.09
1546	6	60	.360	18,97	7.59	158.0	17,47	26.40		0.09
1549	9	60	,540	19.02	7.62	159.0	17.36	32.75		0.09
1552	12	60	,720	19.06	7.1A	159.0	17.35	25,31		0.08
1555	15	60	.880	19.10	7.65	(159.D	17.38	25.80		0.08
			1 1	teri	n <sub>in</sub>	v mun		159t		
Purging	Field Note	s: 3011	30 p	Su :	= 60	ml/	'uur	J		
Sample	Date/Time: r's signature er's signatur	e/date:	9 OCT 2000 SDU MMM							

WILL SAME LING BATA I STIM	Well Number: TMW-29	
	Start Date: 10-14-09	_
a *	Start Time: 0920	
Well Casing Diameter (in):	Well TD: 66.65	
Bore Hole Diameter (in):	Well DTW: 57,22	
Annular Space (AS) Length (ft):	Water Column: 4,43	
Screened Interval (ft bgs): 49-59	Pump Intake (ft bgs)	
WELL VOLUME CALCUATION	ž ,	
	A 72	
Gallons per foot of annular space (from chart on back)	= 0,73	
Column of water or length of AS (whichever is less)	x 4.43	

Gallons per foot of annular space (from chart on back)	= 1	0,73
Column of water or length of AS (whichever is less)	X	4.43
Volume of water in AS (gal)	=	3,23
Gallons per foot of casing (from chart on back)	=	0.163
Column of water	X	4.43
Volume of water in casing (gal)	=	0.72
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	=:	3.95
Number of EV to be purged	X	3
TOTAL VOLUME TO BE PURGED (gal)	=	11.85
ACTUAL VOLUME PURGED (gal)	=	2
Method of Purging: baler	0	

Field Parameters				Reading		
Time	0930	0935	0935			Final
Volume (gal)	0.5	1	2			Sample
Flow Rate (gpm)						N/A
DTW (ft toc)	59.43	59.91	60.08			
рН	7.78	7.89	7.98			
Conductivity (ųS/cm)	2570	2550	25,40			
Temperature (°C)	12.85	12.66	12.76			
Turbidity (NTU)	>1000	865.1	705.4			
Eh/Redox (mV)						
DO (mg/L)	6.84	4.33	4.41			

DO (mg/L)	5.84 4.33 4.4)
Purging Field Notes:	
	AT THE PARTY OF TH
Sample Date/Time:	no Sample Collected Sample ID/TR#:
Sampler's signature/da	
Reviewer's signature/d	te: <u>Apath Major</u> 10/23/09

			_		Well Numl Start Date Start Time	:	10	1W 2 830	9
Well Casing Diameter (in):  Bore Hole Diameter (in):  Annular Space (AS) Length (ft):  Screened Interval (ft bgs):					Well TD: Well DTW: Water Colu Pump Intak	umn:			-
WELL VOLUME CAI	CUATION	٧							
Gallons per	foot of ann	ular space	from chart of	on back)	=				
Column of water or length of AS (whichever is less)								-	
Volume of water in AS (gal)								_	
Gallons per foot of casing (from chart on back) Column of water					=				
					Χ				
Volume of water in casing (gal)								_	
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)					=			_	
Number of EV to be purged					X			_	
TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal)					=	- k	>	20	
Method of F		be	uler		=	4		<u> </u>	
ield Parameters		Ostania di Con	100		Reading				
ime									Final
olume (gal)									Sample
low Rate (gpm)	311								N/A
OTW (ft toc)									
Н									
conductivity (ųS/cm)									
emperature (°C)									
urbidity (NTU)									
h/Redox (mV)									
OO (mg/L)									
Purging Field Notes:  Option  Were Meg	d fu	Il so	of s	ample ly,	os W	baile	er, t	aran	neter.
Sample Date/Time: Sampler's signature/c	late:	10/20	1pg	0900	10/20/0°	Sample ID		TMWZ	

 Well Number:
 FMW 84

 Start Date:
 10/14/09

 Start Time:
 0955

 Well Casing Diameter (in):
 2
 Well TD:
 //5

 Bore Hole Diameter (in):
 8
 Well DTW:
 99.25

 Annular Space (AS) Length (ft):
 17
 Water Column:
 15.75

 Screened Interval (ft bgs):
 100 - 1/5
 Pump Intake (ft bgs)

## WELL VOLUME CALCUATION

Gallons per foot of annular space (from chart on back)	=	0.73
Column of water or length of AS (whichever is less)	X	15.75
Volume of water in AS (gal)	=	11.5
Gallons per foot of casing (from chart on back)	= (	0,1632
Column of water	X	15.75
Volume of water in casing (gal)	= [	2.57
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	=	14.1
Number of EV to be purged	X	3
TOTAL VOLUME TO BE PURGED (gal)	=	42.3
ACTUAL VOLUME PURGED (gal)	=	8

Method of Purging: BENNETT PUMP

Field Parameters		10	114/09		Reading	10/23	
Time	0955	1000	1004	1010	1020	0930	Final
Volume (gal)	INITIAL	3	5	7	8		Sample
Flow Rate (gpm)							N/A
DTW (ft toc)	99.25				113,20	110.10	
рН	6.89	7.10	7.44	7.65			
Conductivity (ųS/cm)	1250	1250	1245	1246			
Temperature (°C)	13.22	13.07	1320	13.62	27		
Turbidity (NTU)	7.76	10.23	115.7	19.70	583		
Eh/Redox (mV)					33		
DO (mg/L)	0.61	0.34	0.27	0.24			

## **Purging Field Notes:**

PUMPED U	IELL	DRY,	ALLO	WED TO	RE	CHAR	GE	THEN	SAMF	LEL	).	
REMOVED	ONL	4 21	. OF	WATER	BE	FORE	SAM	PLING	DUE	70	LIMITED	
QUANITY	OF U	VATER.	WELL	STARTED	70	DRY	DUR	ING F	INAL	SA	MPLE COLLECT	TON

Sample Date/Time:

10/27/09 0835 Freehick & Belleuret Sample ID/TR#: EMW041009

Sampler's signature/date:

		Well Number: Start Date: Start Time:	FW 35 10/16/09 1027
Well Casing Diameter (in): Bore Hole Diameter (in): Annular Space (AS) Length (ft): Screened Interval (ft bgs):	22 12,15 - 32,15	Well TD: Well DTW: Water Column: Pump Intake (ft bgs)	32.15 19.43 12,72
WELL VOLUME CALCUATIO	N		
Gallons per foot of an	nular space (from chart on back)	= (7),	59
Column of water or le	ngth of AS (whichever is less)	x /2	1.12
Volume of water in As	([[]])		

Gallons per foot of annular space (from chart on back)		0
	= 0	
Column of water or length of AS (whichever is less)	X	12.72
Volume of water in AS (gal)	=	7,51
Gallons per foot of casing (from chart on back)	=	0.6528
Column of water	X	12.72
Volume of water in casing (gal)	=	8.3
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	1 = 1	15,81
Number of EV to be purged	X	3
TOTAL VOLUME TO BE PURGED (gal)	=	47.43
ACTUAL VOLUME PURGED (gal)	=	14.0
Method of Purging:		27.8

Field Parameters	Reading								
Time	1027	1029	1031	1033	1035	1037	1039		Final
Volume (gal)	INITIAL	5-105-	5	8	10	12	14		Sample
Flow Rate (gpm)						12			N/A
DTW (ft toc)	19,43								I IVA
рН	7,19	7.07	6.84	6.78	6.82	6.86	6.88	*	
Conductivity (ųS/cm)	4230	412)	3 990	3920	4050	4180	4210		
Temperature (°C)	11.94	11.90	12.09	12.14	12,02		11.94		
Turbidity (NTU)	2574	716	75.6	37.9	25.2				
Eh/Redox (mV)		100				15 0.10			
DO (mg/L)	0.13	D. 13	0.13	0.13	0.13	0.12	0,14		

**Purging Field Notes:** 

PURGED W/12 V PUN	AP. UNTIL DRY.	AFTER	RECHARGE
COLLECT SAMPLE	and the same of th		
CO-CRE SIII ILIE	W/ BATERY.		

^		D	-
Sam	nia	1 lata/	Time:
oam		Date	I IIII C.

Sampler's signature/date:

Reviewer's signature/date:

Sample ID/TR #:

FW35102009

			J		Well Numl Start Date Start Time	:	FV 10-	V18 -24-0	7
Well Casing Diameter (Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bg	): ngth (ft):				Well TD: Well DTW: Water Column: Pump Intake (ft bgs)				
WELL VOLUME CA	CUATION	N							
Column of Volume of Sallons per Column of Solumn of Total Vo	water or len water in AS r foot of cas water water in cas VALENT VO EV to be pu	ing (from ch sing (gal) DLUME [EV]	hichever is art on back)	less)	= X = X = X = X = = X				
Method of F		riolo (gai)			_		,	-	
Field Parameters					Reading				
Time									Final
Volume (gal)									Sample
Flow Rate (gpm)		Charles See all File							N/A
DTW (ft toc)									IN/A
рН									
Conductivity (ųS/cm)									
Temperature (°C)									
Turbidity (NTU)									
Eh/Redox (mV)									
DO (mg/L)									
Purging Field Notes: West was Sample a	previ	ously	bail an d	led d	ry:	011	octed	perch	lovase
Sample Date/Time: Sampler's signature/c		10-2 Gry Mili	4-09 ant K	010/20	10-24-	Sample ID	/TR#: <b>/</b>	W18/16	2009

 Well Number:
 FLD 31

 Start Date:
 IO/IG/09

 Start Time:
 I/40

 Well Casing Diameter (in):
 Well TD:
 \$2.00

 Bore Hole Diameter (in):
 Well DTW:
 41.33

 Annular Space (AS) Length (ft):
 22
 Water Column:
 IO/67

 Screened Interval (ft bgs):
 I2-52
 Pump Intake (ft bgs)

#### WELL VOLUME CALCUATION

Gallons per foot of annular space (from chart on back) = 0.59

Column of water or length of AS (whichever is less) X /0.67

Volume of water in AS (gal) = 6.30

Gallons per foot of casing (from chart on back) = 0.6528

Column of water X /0.67

Volume of water in casing (gal) = 6.91

ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) = /3.27

Number of EV to be purged X 3

TOTAL VOLUME TO BE PURGED (gal) = 30.61

ACTUAL VOLUME PURGED (gal) = /0

Method of Purging: 12 V PUMP

Field Parameters	Reading								
Time	MANTIAL	1142	1143	1146	1149	1153	1200		Final
Volume (gal)	INITIAL	2	3	5	7	9	10		Sample
Flow Rate (gpm)							37		N/A
DTW (ft toc)	41.33						WELL	WENT	1
рН	7.80	8.13	8. 25	8.28	8.32	8.39	DRY		/
Conductivity (ųS/cm)	235	235	234	235	235	235	C-23	50,0	
Temperature (°C)	12.95	12.66		12.65	12.67	12.78			
Turbidity (NTU)	69.6	6.32	3.44	8.59	10.5	12.8			
Eh/Redox (mV)									
DO (mg/L)	0.19	0, 15	0,14	0, 13	0.12	0.10			

Purging	 	

PURGED	WELL	DRY WITH	12 V PUN	OP AFTER	RECHARGE
SAMPLE	D W17	H BAILER	2		

Sample Date/Time:

Sampler's signature/date:

Reviewer's signature/date:

10/21/2009 1430 Freding 9. Italiand Sample ID/TR #:

FW31102009

WELL SAMPLII  Well Casing Diameter ( Bore Hole Diameter (in Annular Space (AS) Le	(in): ):	FORM 2	]	-	Well Numb Start Date: Start Time Well TD: Well DTW: Water Colu	:	- RUE	66	3/09 
Screened Interval (ft bg WELL VOLUME CA			6-53,6	ō	Pump Intak				well w
Column of Volume of Sallons per Column of Volume of Volume of Number of TOTAL VOACTUAL Volume of Volume of Column of	Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) Volume of water in AS (gal) Gallons per foot of casing (from chart on back) Column of water Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) Number of EV to be purged TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal)		g, gal)	= X = X = X = X = = X	4	previous  recorde  previous  october  during v  level  meason			
Field Parameters					Reading				
Time	1626	1629	1632	1635	1638	1739			Final
Volume (gal)	1.0	1.5	2.0	2.5	3.0	4.0			Sample
Flow Rate (gpm)							141		N/A
DTW (ft toc)									
pH	7.46	7.66	7.68	7.60	7.63				
Conductivity (ųS/cm)	3600	3598	358	3560	3560				
Temperature (°C)	15.06	14.71	14.69	14.60	14.58				
Turbidity (NTU)	496.2	389.4		397.0				45	
Eh/Redox (mV)									
DO (mg/L)	3 20	3.29	210	2.75	2 94				v

3.2	0 3.24 3.10 2.75	2-94	
Purging Field Notes:	Al dry collected.	n 40 gal an 10/13/09	
	V		.4
Sample Date/Time: Sampler's signature/date: Reviewer's signature/date:	10/13/09 -not sampled of MithMat 10/23/	Sample ID/TR#:	

			_		Well Num Start Date Start Time	e:	MW 101	22/0	9
Well Casing Diameter Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bo	n): ength (ft):			_ _ _	Well TD: Well DTW: Water Column: Pump Intake (ft bgs)				
WELL VOLUME CA	LCUATION	٧					-		-
Gallons pe Column of Volume of Gallons pe Column of Volume of ONE EQUI Number of TOTAL VO	r foot of ann water or len water in AS r foot of cas water water in cas VALENT VC EV to be pu LUME TO E	nular space agth of AS (v (gal) sing (from ch sing (gal) DLUME [EV urged BE PURGED		e less)	= X = X = X = X = = X		<b>\</b>		
Method of F	rurging :		alev		Reading				
Time			Т	T	neading	T	1	T	T
Volume (gal)			1				-		Final Sample
Flow Rate (gpm)									N/A
DTW (ft toc)									N/A
pH									
Conductivity (ųS/cm)					1	<u> </u>			
Temperature (°C)									
Turbidity (NTU)									
Eh/Redox (mV)									
DO (mg/L)									
Purging Field Notes:	CON	plex	Sa.ly D	mple	Sof wod.	w	bailei	-, Pa	rape
Sample Date/Time: Sampler's signature/d Reviewer's signature/d		10/22 Gr Mi	109 ant K	093 Old 10/23/0	0 [0-22 -	Sample IE	)/TR#: <b>/</b> \	NW2110	02009

WELL SAMPLI	NG DATA	FORM										
		~			Well Numl Start Date Start Time	:	m/13	_				
Well Casing Diameter		2		_	Well TD:		49.	33				
Bore Hole Diameter (in	*	- 4	^	3	Well DTW:		_b not					
Annular Space (AS) Le Screened Interval (ft be	1770 P. C.	25	117	_	Water Colu Pump Intal		47	2,5	- recorde			
	T-120		9/	_	rump imar	re (it bgs)	4/	2.5	- at this			
WELL VOLUME CA	LCUATIO	N						1.	11-000 F			
Gallons pe	er foot of anr	nular space (	from chart	on back)	=			ti	ine, reco			
Column of	water or ler	ngth of AS (w	hichever is	less)	x during o							
Volume of	water in AS	(gal)			=				. )			
Gallons pe	er foot of cas	sing (from ch	art on back	()	=			wa	ifer level			
Column of					X			m	easureme			
	water in cas				=			- \\/	ell was			
		OLUME [EV]	(AS + casi	ng, gal)	=				10.00			
	EV to be pu	1.5			X			- V	sailed di			
		BE PURGED			=			- 1	11.			
ACTUAL V	OLUME PU	IRGED (gal)		1	=		gal	-	-ML			
Method of	Purging:		h	and ba	iler			<u></u>				
Field Parameters					Reading							
Time	1535	1539	1541	1545					Final			
Volume (gal)	.5	.5	-5	.3					Sample			
Flow Rate (gpm)									N/A			
DTW (ft toc)									1			
pH MLM	6.86	7.00	7.01	7.00				nun				
Conductivity (ųS/cm)	2.43	134 TX	2.45	(2.45	- 24	50	De	-				
Temperature (°C)	15,93	14.96	14.94	14.80								
Turbidity (NTU)	621.6	1092	>1100	≥)100								
Eh/Redox (mV)		1012	1,-0	1								
DO (mg/L)	3.32	3.42	3.00	3,34								
Purging Field Notes:					11							
Pungs wel	l dry	on 10/1	3, coll	ected n	2.0gal							
Sample Date/Time:			not	sample	1	Sample IE	)/TR #·					
			Acc.	JUNION IC	_0	Jumpio IL	er I I I IT					

Sampler's signature/date: Reviewer's signature/date:

## WELL SAMPLING DATA FORM Well Number: Start Date: Start Time: Well Casing Diameter (in): Well TD: Bore Hole Diameter (in): Well DTW: Annular Space (AS) Length (ft): Water Column: Screened Interval (ft bgs): Pump Intake (ft bgs) WELL VOLUME CALCUATION Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) X Volume of water in AS (gal) Gallons per foot of casing (from chart on back) Column of water X Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) Number of EV to be purged X TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal) Method of Purging: Field Parameters Reading Time Final Sample Volume (gal) Flow Rate (gpm) N/A DTW (ft toc) рН Conductivity (uS/cm) Temperature (°C) Turbidity (NTU) Eh/Redox (mV)

Purging Field Notes:	complete sample set w bailer. Parameters
had been ,	Oreviously measured.
Sample Date/Time:	10/23/09 0830 Sample ID/TR#: MWQ2/02009
Sampler's signature/date: Reviewer's signature/date	211. 4 111

DO (mg/L)

Hope								1000 114		
			ACTIVITY			Well N	lumber:	Mi	N 03	>
LOW	FLOW V	VELL SAM	PLING DAT	TA FOR	М	Start I	Date:	_/6	0-23	-09
	9		n			Start T	Time:	12	35	
	asing Dian	80.00				Well T	D:	50	6.2	29
	ole Diamet		: 12			Well D	.F 1844	48	5.90	
	ed Interval	S) Length (ft)					Column:	10	30	_
Serecin	ou finter var		LUME CALC	LIATION		Pump I	ntake (ft b	gs): <u>54</u>	2	-
			foot of annula		om chart	on back)		= ^	73	
		Column of	water or length	of AS (w	hichever	is less)		X /	5.3	7.3
			water in AS (g					= 7	52	
		Column of	foot of casing water	(irom ena	rt on bac	K)		= <u>O. /</u>	163	-0
		Volume of	water in casing					= 1	68	-
		ONE EQUI	VALENT VO	LUME [E	V] (AS +	casing, gal	1)	= 3	,2	-
Method	of Purging		OLUME PUR	177	.50			=	75	-
		-	_10w		W			22		_
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond.	Temp.	Turbidity	Redox	DO
1255	0	60	O C	46.08	_	(μS/cm) 4960	(C)	(NTU)	(mV)	(mg/L) 4.15
1300	5	60	0.3	46.10	7.29	5340	14 29	1.51		2.30
1305	10	60	0,6	46.11	7.28	5420	14.26	1,22		1.88
1310	15	60	0.9	46.12	7.27	5440	14.11	1.12		1.72
1315	20	60	1.2	46.12	7.28	5440	14.23	1.13		1.61
1320	25	60	1.5	46.12	7.28	5430	14,33	0.73		
1325	30	60	1.8	46.12	7.28	5410	14.37	0.71		1.60
1330	35	60	2.1	46.12	7.28	5/00	14,35	0.62		1.57
1335	40	60	2.4	46.12	7.28	5390	14,28	0.42		1,53
1337		60	2.52	48.12	7.28	5380	14.29	1.18		1.51
1339	44	60	2.64	46.12	7.28	5370	14.33	· <u>·</u>		1.53
1340	45	60	2.7	46.12	7.28	5380	14,38	0.61		1,52
luic				111 10						
1415				46.12	· · · · · · · · · · · · · · · · · · ·	7				
1505				76.15	- 1	inal	way	en la	nel	
Purging	Field Notes	S: Very	clear u	valer	,			0		
Pross	= 30	12 , 2g	clear u	55500	, Ri	ugo >	5 se	c, f	DW 3	60 M
		, ,			,	0				
Sample 1	Date/Time:	16/23/0	9 1409	Sample	ID/TR #	· MW	123/10	2009		

Sample Date/Time: 10/23/09 149 Sample ID/TR #: MW & 3/02009
Sampler's signature/date: Frank Folk 10-23-09
Reviewer's signature/date: Mat/Mat/ 10/23/09

FORT WINGATE DEPOT ACTIVITY LOW FLOW WELL SAMPLING DATA FORM	Well Number:	MW 20
?	Start Date: Start Time:	16-23-09 0830
Well Casing Diameter (in):	Well TD:	59,4
Bore Hole Diameter (in):	Well DTW:	44.88
Annular Space (AS) Length (ft):/2	Water Column:	14.52
Screened Interval (ft bgs):	Pump Intake (ft bgs	57.37
WELL VOLUME CALCUATION		1 5-1
Gallons per foot of annular space (from char	t on back)	= 0,73
Column of water or length of AS (whichever	r is less)	x /2
Volume of water in AS (gal)		= 8.76
Gallons per foot of casing (from chart on bac	ck)	= 0.163
Column of water		x 14.52
Volume of water in casing (gal)		= 2.37
ONE EQUIVALENT VOLUME [EV] (AS -	+ casing, gal)	= 11.13
ACTUAL VOLUME PURGED (gal)		= ///
Method of Purging:   low flow		

Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
	Elapsed	(mL/min)	Volume (L)	(ft toc)	pН	(µS/cm)	(C)	(NTU)	(mV)	(mg/L)
0855	0	60	6	45,04	6.90	19400	11.98	20,92		3.46
0900	5	60	0.3	45.10	684	18900	12.20	16.17		2.14
0905	10	65	0.6	45.10	684	18800	12.52	11.46		1.82
0910	15	70	0.925	46.10	684	18700	13.12	7.82		1.66
0915	20	70	1.275	45.10	6.84	1870	13.06	5.84		1.61
0920	25	70	1.625	45,11	)	-		3.91		
0925	30	70	1,975	45.11	6.85	18800	13.32	5.47		1.52
093	35	70	2,325	45.12	6.86	18800		5,17		1,37
0935	40	70	2.675	45.12	6,86	18900	13.41	5.59		1,26
0940	4.5	70	3.025	45.12	6.86	18900	13.62	4.73		1,20
0945	50	70	3,375	45.12	6.87	19000	13.69	4.62		1.17
0950	55	70	3.725	45.12	6.87	19000	13.99	3.88		1.13
6952	57	70	3.864	45.12	6.87	19100	13.96	2.82		1.13
6954	59	70	4,004	45.12	627	1900	13,81	4.30		1,14
1100				45.12		4	100-	Just		
1225				45,12	= 4	inalu	over	level		

Purging Field Notes: Very clear water
Rech = 60 sec, surco = 6 soc, pross = 40 psi, flow = 70-75 m1/mi
w Stable grandown
Sample Date/Time: 10-23-09 1900 Sample ID/TR #: MW20102009
Sampler's signature/date: Sratkolo 10-23-09

WELL SAMPLI	NG DATA	FORM			Well Numb Start Date: Start Time	35,5 S U	TH	UZZS W-08 Od-09	15
Well Casing Diameter Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft be	n): ength (ft):	2 8 12 31-		-	Well TD: Well DTW: Water Colu Pump Intak	ımn:	36	4+ 43 65-41. 76	528
WELL VOLUME CA	LCUATION	I							
Column of Volume of Gallons pe Column of Volume of ONE EQUI Number of TOTAL VO	water in cas VALENT VC EV to be pu DLUME TO B	gth of AS (w (gal) ng (from cha ing (gal) DLUME [EV] rged E PURGED	hichever is art on back) (AS + casin	less)	= X = X = X = X	0. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.73 .76 29 163 29 .21 50 3		
Field Parameters					Reading				
Time	1245	1770	1775						Final
Volume (gal)	12 11 3		1200						Sample
Flow Rate (gpm)				/	(				N/A
DTW (ft toc)			5	0	1-10	*			
рН	691	7.37	7.41	HON	low	U			
Conductivity (ųS/cm)	499n	1711	1-1-14	1	1 all	P			
Temperature (°C)	1605	1506	1617		V				
Turbidity (NTU)	16,87	210.8	1271						
Eh/Redox (mV)	WOLO L	20.0	1711						
DO (mg/L)	52L	468	5.66						
Purging Field Notes:	d dry	- (·(b()	7.00		4	r a		0	
								2 3	
Sample Date/Time: Sampler's signature/o	date:	1249 CADIA	Puro	190	cT 200	Sample II	D/TR #:	MW22	Slozot

WELL SAMPLIN			Well Number: Start Date:	M	MWZZS 10-20-09 0810					
			Start Time:							
Well Casing Diameter ( Bore Hole Diameter (in) Annular Space (AS) Lei Screened Interval (ft bg	ngth (ft):		Well TD: Well DTW: Water Column: Pump Intake (ft bgs	)		-				
WELL VOLUME CAL	CUATION									
Gallons per	foot of annular sp	ace (from chart on ba	ack) =							
	and the second	AS (whichever is less	5000 M		_					
	vater in AS (gal)	3.5	=							
Gallons per	foot of casing (fro	m chart on back)	=							
Column of v	vater		Χ		_					
	vater in casing (ga		=							
		[EV] (AS + casing, g	137 (-30)		_					
	EV to be purged		Χ							
	LUME TO BE PUR		=	<u> </u>	_					
ACTUAL VO	DLUME PURGED	(gal)	=	0						
Method of F	urging:	alor		18	_					
Field Parameters			Reading							
lime -						Final				
/olume (gal)						Sample				
Flow Rate (gpm)						N/A				
OTW (ft toc)										
Н										
Conductivity (ųS/cm)										
「emperature (ºC)										
Turbidity (NTU)										
Eh/Redox (mV)										
OO (mg/L)										
Purging Field Notes:	0 1		2		, , 1					
Collected	Partia	Sangle	set until we	11 bail	ed di	4.				

Sample Date/Time:

Sampler's signature/date:

Reviewer's signature/date:

Sample ID/TR #: MW22S/0208

					Start Date:		225	,	
					Start Date:		10	0-21-09 0800	
Well Casing Diameter (Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bg	): ngth (ft):	2		-	Well TD: Well DTW: Water Colur Pump Intake				
WELL VOLUME CAI	CUATIO	V							
Gallons per	foot of anr	nular space	(from chart of	on back)	=				
Column of	water or len	igth of AS (	whichever is	less)	X			_	
Volume of	water in AS	(gal)		=					
Gallons per	foot of cas	ing (from cl	hart on back)	=			_		
Column of				X					
Volume of					= _			_	
			] (AS + casir	ng, gal)	= .				
Number of			5 / 1		Χ .				
TOTAL VO			(175) 197		= .		0	_	
Method of F			iler		= .		Χ		
Field Parameters					Reading				
Time									Final
Volume (gal)									Sample
Flow Rate (gpm)									N/A
DTW (ft toc)									
pH									
Conductivity (ųS/cm)									
Temperature (°C)									
Turbidity (NTU)									
Eh/Redox (mV)									
DO (mg/L)									
Purging Field Notes: Paramete	part h	tial.	Samp been	le s	ot up	1	ell	baile .	1 dz
Sample Date/Time: Sampler's signature/o Reviewer's signature/		10 /21/ Sri M/M	109 Cant 1/2	1236	- J0/21/0	Sample ID	/TR #:	MW225	10300

			_		Well Number: Start Date: Start Time:	MW 10-	125 -22-09 755
Well Casing Diameter ( Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bg	): ngth (ft):				Well TD: Well DTW: Water Column: Pump Intake (ft bgs)		
WELL VOLUME CAI	CUATION	I					
Gallons per	foot of ann	ular space	(from chart or	n back)	=		
Column of	water or leng	gth of AS (v	whichever is le	ess)	Χ		_
Volume of v	water in AS	(gal)			=		_
		ng (from ch	nart on back)		=		_
Column of					Χ		_
	water in casi				=		_
			] (AS + casing	g, gal)	=		-
	EV to be pu				Χ		-1
	LUME TO B				=	h	<b>-</b> 3
Method of F	OLUME PUR Purging :		ailer		= -	4	_
Field Parameters					Reading		
Time							Final
Volume (gal)							Sample
Flow Rate (gpm)							N/A
DTW (ft toc)							
рН							
Conductivity (ųS/cm)							
Temperature (°C)							
Turbidity (NTU)							
Eh/Redox (mV)							
DO (mg/L)							
Purging Field Notes: Paranete	rem is ho	air c	er o	f so	ample se		th a baile
Sample Date/Time: Sampler's signature/d Reviewer's signature/	,	10/26 In	of 09 0 ant KO	0800 10 1	Sample (2) [22] [29]	ID/TR #: 🎢	W22S10200

FORT WINGATE DEPOT ACTIVITY	Well Number:	Mw 22D
LOW FLOW WELL SAMPLING DATA FORM	Start Date:	10-21-09
0	Start Time:	0840
Well Casing Diameter (in):	Well TD:	58,77
Bore Hole Diameter (in):	Well DTW:	41.37
Annular Space (AS) Length (ft): 12	Water Column:	17.40
Screened Interval (ft bgs): 47–57 WELL VOLUME CALCUATION	Pump Intake (ft bgs):	56.1
Gallons per foot of annular space (from cha	rt on back) =	0.73
Column of water or length of AS (whicheve	er is less)	12
Volume of water in AS (gal)	=	8,76
Gallons per foot of casing (from chart on ba	nck) =	0.163
Column of water	X	17:40
Volume of water in casing (gal)	=	2.84
ONE EQUIVALENT VOLUME [EV] (AS	+ casing, gal) =	11.60
ACTUAL VOLUME PURGED (gal)	10000000 1000	2.8
Method of Purging: On How		

Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
	Elapsed	(mL/min)	Volume (L)	(ft toc)	рН	(µS/cm)	(C)	(NTU)	(mV)	DO (mg/L)
0900	0	90	0	41.47	_	8200	13.50	4.77		3.76
0905	5	90	0.45	41.47	7.32	8050		320		2.61
0910	10	100	0.95	41.48	7,32	6690	13.75	2,45		2.29
0915	15	100	1,45	41.48	7,32	6340	13.75	0.90		2.20
0920	20	100	1.95	41.48	7.32	6120	13.78	1,81		1.95
0925	25	100	2,45.	41.48	7.31	6000	1385	3.60		1.73
0930	30	100	2.95	41.50	7.31	5900	13.79	1,11		1.60
0935	35	100	3,45	41.50	7.32	5910	13.85	1.58		1.45
0740	40	100	3.95	41,50	7.32	5770	13.90	0.89		1.37
0945	45	100			-			0.82		1.26
0250	50	100	4.95	41.50	7.32	5660	13.96	1.05		1.20
1000	60	100	5.95	41.50	7.32	5570	14.03	0.21		1.11
1005	65	100	6.45	41,50	7.32	5520	14.08	1.74		1.11
1010	70	100	6.95	41,30	7,33	5480	14.03	0.38		1,04
1015	75	100	7,45	41.50	7,33	5450	14.13	0.86		0.99
1020	80	100	7.95	49.50	7,33	5410	14.04	0.15		0.95

Purging Field Notes: Degan purging at 0855, Pross = 40Asi, Tech = 30 sec Jurgo - 4 Sec. How rate = 90 M/Min. Increased purgo to 4.5 soc. I DW IN CREASED TO 100 MINION. Drawdown increased slightly, but stabilizedo Sample Date/Time: 16/21/09 1100 g Sample 10/TR #: Mw22 N/02009 a Fw22/02009 Sampler's signature/date: Scant told 10-21-09 (blind class) Reviewer's signature/date: Mathet 10/23/09 Very clear water During Sampling, purgo was increased to 6 sec, Flow increased to

page 2 of 2

			CACTIVITY		Well N	umber:	ML	0221	D		
LOW	FLOW W	VELL SAM	PLING DAT	ΓA FORM	M	Start D	ate:	-21	-09		
						Start T	ime:	0	840		
	asing Diam					Well T	D:	2.2			
	ole Diamet					Well D	TW:	2000 AND 10110		_	
		S) Length (ft)	:				Column:			_	
screene	ed Interval		LUME CALC	HATION		Pump I	ntake (ft b	gs):			
			foot of annula		om chart	on back)		=			
		Column of	water or length	n of AS (w	hichever	is less)		X		- 15	300
			water in AS (g		•	resco		=		_ /	pag
		Column of	foot of casing	g (Irom cha	rt on bac	K)		 X		- (	,
			water in casing	g (gal)						- (	
		ONE EQUI	VALENT VO	LUME [E	V] (AS +	casing, gal	)	=		-	)
Mathad	of Domein		OLUME PUI	( )))				=			100
	of Purging	<u> </u>	180	4100	U					-	
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)		Cond.	Temp.	Turbidity	Redox	DO	ı
1025	85	100	8,46	41,30	7.33	(μS/cm) 5400	(C) 14:05	(NTU)	(mV)	(mg/L)	
000	87		8.65	111/2	7722	5700	14:00	4 4		0.94	
04/	29	100	-	17:50	1/33	5370	14,10	0.55		0,93	
227	07	100	8.85	4,50	"/, 3	5380	14,10			0.92	
23/	91	100	9.05	44.50	7.33	5370		0,		0.92	
35	95	100	9,45	41,50	7.33	5350	14.16	0.48		0,91	
237	97	100	9.65	41,50	7.33	5340	14.13	6.37		0.91	
240	100	100	9,95	41.50	7.34	5330	14.09	0.13		0,89	
42	102	100	10.15	41,50	7.34	53%		0.64		0,88	
44	104	100	10.35	41.50	7.34	5330	14.12			0.90	
300	,			41.52			7.70			0170	
500				41.50							
550				41,50	= 4	2 - ( )	1-10-	10.10	1		
				11,00	- 7	11911	Ja er	leve,	41		
				-							
Purging	Field Note	s:									
							2				
								Control of the Contro			
Sample	Date/Time:			Sample	e ID/TR i	#:			part week ex		
Sampler	's signature	/date:	47					37			
Reviewe	er's signatur	e/date:									
			William Community of the State of			- CH		a care or till year			

	FORT WINGATE DEPOT ACTIVITY LOW FLOW WELL SAMPLING DATA FORM						Well Number: 6 MW 67				
LOW	FLOW V	VELL SAM	PLING DAT	A FORM	И	Start D	ate:	160	oct t	009	
						Start T	ime:	151	17		
	asing Diam		_2			Well TI	D:	10	8.4	,	,
	ole Diamet		_8			Well D	TW:	71	0133	Ston	7
		S) Length (ft)	: 17			Water C			35.0	2	00
Screen	ed Interval		93-10 LUME CALCI	UATION		Pump I	ntake (ft b	gs): 166.	4)	- We	t Il was ged on Trong
		Gallons per	foot of annula	r space (fr	om chart	on back)		= 6,73	5/	Aur	cod ou
			water or length water in AS (g		hichever	is less)		X 17		Pool	get - L
			foot of casing		rt on bac	k)		= 12.41		1500	T 2009
		Column of	water			,		X 3007		DIM	
			water in casing					=	6,21	Ma	~'
		ACTUAL V	VALENT VOI OLUME PUR	LUME [E RGED (gal	V](AS+	casing, gal	)	=	18.6	02 V	
Method	l of Purging		OMI	APAC	V				/		
Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Т	T. 1:11	D I		51
	Elapsed	(mL/min)	Volume (L)	(ft toc)	рН	(μS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	
1510	0	200		70.33	6.76	6321	13,55	2.39		2.77	
515	5	200			723	Z250	14,21	3.24		2.13	
1520	10	150			7.86	2130	404	141		179	
1525	15				8.09	1980	4.18	149		1,52	
1530	20				820	1880	1408	1.53		1.38	
1535	25				8:26	7960	1399	270		1.34	
1540	30	1		7610	8,28	1850	14.00	1.57		127	
		·	1.000	70110				11/1			
			in and								
Purging	Field Note		. 1			4	Í				
		Pre	Wious	PC	mp	ed c	VV				
C 1	D. 4. #B!	151-		- 1	/15 		11125	1000	10		
		1540	GMI	Sample	e ID/TR =	#: <u>&amp; M</u>	WOZ	10200	19		
	's signature		NA	us I	ul	170	Oct 0	207			
Keviewe	er's signatu	re/date:	0111/10	101/1/11/11	M	65	UCT	1			

FORT	WINGA	TE DEPOT	ACTIVITY			Well No	umber:	SM	WO		
LOW	FLOW W	VELL SAM	PLING DAT	A FORM	1	Start D	ate:	24	OCT	2009	
						Start Time: D9.30					
	asing Diam		_ 2_			Well TI		-			
	ole Diamet	er (1n); S) Length (ft)	8_			Well D'		32.	00 6+	-	
	ed Interval		799-4	$\overline{a}$		Water C	olumn: ntake (ft b	20,	15	-	
		WELL VO	LUME CALCU				Titake (Tr 0,	_50	115	-	
			foot of annula water or length					= ()	73	-	
		Volume of	water in AS (ga	al)				= 14	71	<del>.</del>	
		Gallons per Column of	foot of casing	(from cha	rt on back	<b>(</b> )		= ().	163	-	
			water water in casing	(gal)				x = 20	15	-	
		ONE EQUI	VALENT VO	LUME [E		casing, gal	)	= 18	.00	-	
Method	l of Purging		OLUME PUR	GED (gal	(21	2~		=	56	_	
Time	Minutes	Flow Rate	Cumulative	DTW			Т	T. 1:1:	n I	I po	1
Time	Elapsed	(mL/min)	Volume (L)	(ft toc)	рН	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	
0935	0	70		32.00	7.61	2070	11.41	3.98		2,00	SAW
1936	_3	70		32.00	7.63	2060	11.42	3.61		207	1.85
0941	6	70		32.00	7.70	2070	10.65	254		2.07	1.56 SAW
0944	9	70		32.0	7.71	2060	111.13	2.11		1.51	
0947	12	70		32.00	7.72	.2060	11.37	351		1.48	
0950	15	70		32.00	7.73	2050	11,46	4,39		1.43	
0953	18	70		32.00	7:73	2060	11149	6.62		1.40	
0956	21	70		32,00	7.74	205	11.50	6.28		1.37	
0959	2多	70		32,00	7.74	205	1158	7.99		1.32	
1002	27	70		3200	7.75	205	011,59	7.21		1,29	
1005	30	70	21	32.00	7.75	205	11.62	-7,07		1.28	
						42	050	2			
						9	two	1			
										,	" . T
Durair	Field Note	3/	OH SM	N 30	5051	=71	me	lum t	915	tales	lization
•	mad	S. 10	79 1 -		4.1			ted SI			
CALL	7	unline	at 27	OH	0 /	071 6	. /	35 ne	Ci =	1200	Ohm
Sample	-	1	100T 2009	Sample		#: SMU		09	21 -	ievy	ujuun
	r's signature					26 OCT					

FORT	WINGA'	TE DEPOT	ACTIVITY	, .		Well No	ımberi	CAA	WO	1
			PLING DAT		1	Start D		15 OCT 2009		
				TIT OIL		Start T		094	50	2009
Well Ca	asing Diam	eter (in):	7			Well TI		17	0.7	
	ole Diamete		8			Well D		94	·Z7_	-
	and the second of the second o	S) Length (ft):	17			Water C	Column:	3	6.43	
Screene	ed Interval (		105-12	D		Pump Ir	ntake (ft bg	s):	8.7	20
			LUME CALCU foot of annula		om chart	on back)		= /	73	
			vater or length					X	15	
			vater in AS (ga					= 10	95	
		Column of v	foot of casing	(from cha	rt on back	:)		= 0	63	-
			vater in casing	g (gal)				= 5	- ad-	10.1
			VALENT VO			casing, gal	)	= [(	2.89	
Mathad	- f D		OLUME PUR	12 L	) Dlan	,		= ~1		-
	of Purging	<u> </u>		lon	400					-
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
0988	0	233	(2)	84.22	7.70	816	15.02	4.94	(1111)	0,21
1000	5	233		87.52	932	811	14.19	3.13		0.15
1005	10	105		88.56	8.60	799	1443	1.16		0.14
IDIO	15	120		8856	8.80	789	14:70	0,17		0.14
1015	20	145		88.56	9.04	786	1452	0.07		0.14
1020	25	145		88.56	922	788	Hilel	0.00		0.13
1025	30	120	n16	9251	934	779	H.66	0,01	,	0.13
	11									
		, , , , , , , , , , , , , , , , , , ,					, and a			
Purging	Field Note	es:								
Correct-	Data/T:	. 10.45		C1	a ID/TD	+. CMI	16/100	ANG:		
	Date/Time	: <u>1040</u> e/date:	9011	Sampl LOM	6 1D/TK:	#: <u>EMU</u>	TZCV	<u>uu</u>		
	er's signatur		- 20	MARA	Mon	7 7	300 t	09		

FORT	`WINGA'	TE DEPOT	ACTIVITY			∃well Ni	ımber:	EV	иш С	3		
LOW	FLOW W	ELL SAM	PLING DAT	A FORM	1	Start D		16	16 OCT 2009			
						Start Ti	ime:		130			
Well C	asing Diam	eter (in):	2			Well TI	):		72.9	0		
Bore H	ole Diamet	er (in):	8			Well D	ΓW:	- 8	7,20	13	2	
Annula	r Space (AS	S) Length (ft):	: 17		Water C	Column:		7	3	2 0		
Screene	ed Interval (	(ft bgs):	78-9	3		Pump Ir	ntake (ft bg	gs):		2 3	3 m	
			LUME CALCU						7	08	7	
			foot of annula	200				=	(	+ 3	3 1	
			water or length		nichever	is less)		X	1	2 3	18-1	
			water in AS (ga foot of casing		rt on bool	.)		=	<del>\</del>	5 3	7 3	
		Column of v		(Hom chai	it on baci	X)		=	<del>\</del>	D 7	W3	
			water in casing	(gal)				=	-	80	3 %	
			VALENT VO		V] (AS +	casing, gal	)	=	-	20	3 7	
		ACTUAL V	OLUME PUR	RGED (gal	)	101110		=		3 13	R &	
Method	l of Purging	g:							X	(-z m	0 - 0	
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	pН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)		
1130	0	90		87.20	9.94	160.6	16.06	32.AL		3.34		
1135	5	90		87.21	11.71	1440	14.40	12.14		2.29		
1140	10	90	135	87.23	11,55	0000	13.81	298		1.79		
145	15	90	1350	87.74	11.49		14.05	9.42		1.59		
(150)	20	80		9775	11.48		14.83	3,75		141		

Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1130	0	90		87.20	9.94	160.6	16,06	32.AL		3.34
1135	5	90		87.21	11.71	1990	14.40	12.14		2.29
1140	10	90	135	87.23	11,55	0000	13.81	2.98		1.79
145	15	90	1350	87.24	11.49		14.05	9:42		1.59
1150	20	80		87.25	11.48		14.83	3,25		1.41
1155	25	80		87.25	11.44		15,15	3,14		1.33
1200	30	80	2.850	87.25	11:39		14,82	5.75		1:33
1205	35	70		87.25	11.38		15,12	5.65		1.25
1210	40	70	3.25	87.25	11,38	1	14.85	5.23		1.24
				-						
1 1								1		1

Purging Field Notes:			

Sample Date/Time: 1230	160CT Z009	Sample ID/TR #:	EMW031020	109
0 11: 11			73 OF - 50	

Sampler's signature/date: 23 OCT 201

Reviewer's signature/date: 11 Mint 230cton

WELL SAMPLI	NG DATA	FORM						
					Well Number: Start Date: Start Time:	FN-1	10521 10-28- 1135	02009
Well Casing Diameter Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bo	): ength (ft):			-: -: -	Well TD: Well DTW: Water Column Pump Intake (f	No.		_
WELL VOLUME CA	LCUATION	ı					5.5	_
Column of Volume of Gallons pe Column of Volume of ONE EQUI Number of TOTAL VO	water in cas VALENT VC EV to be pu LUME TO B OLUME PUI	gth of AS (w (gal) ing (from cha ing (gal) DLUME [EV] rged E PURGED	hichever is lart on back) (AS + casin	less)	= X = X = X = we]			
Field Parameters		,			Reading			
Time	1140	1145	1150					Final
Volume (gal)	100	200	300					Sample
Flow Rate (gpm)	20	20	20					N/A
DTW (ft toc)								1

Eh/Redox (mV) DO (mg/L) **Purging Field Notes:** 

Sample Date/Time:

Conductivity (ųS/cm)

Temperature (°C) Turbidity (NTU)

рН

Sample ID/TR #:

Sampler's signature/date:

## WELL SAMPLING DATA FORM Well Number: Start Date: Start Time: Well Casing Diameter (in): Well TD: Bore Hole Diameter (in): Well DTW: Annular Space (AS) Length (ft): Water Column: Screened Interval (ft bgs): Pump Intake (ft bgs) WELL VOLUME CALCUATION Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) X Volume of water in AS (gal) Gallons per foot of casing (from chart on back) Column of water X Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) Number of EV to be purged X TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal) Method of Purging: Field Parameters Reading Time Final Sample Volume (gal) Flow Rate (gpm) N/A DTW (ft toc) На Conductivity (uS/cm) Temperature (°C) Turbidity (NTU)

Eh/Redox (mV)										
DO (mg/L)	2.90	2.97	2.38				A			
Purging Field Notes:										
Flow rate	was	high	becc	inse	Well	Was	PUTG	od fre	Ma	
large di	amete	rmo	ain to	nanc	e pip	ea	nd o	of of	TOM	
the spino	tin	The	wel	1 ho	use.					
. 0									-	
Sample Date/Time:		10522	8-09	120	0	Sample ID	/TR#: /	1005	610200	9
Sampler's signature/d	ate:	Tra	est Ke	2lb 1	0/28/09	and	QC.	SaMAI	<u>,610201</u> le	
Reviewer's signature/	date:		WAM)	bot 10	128/09	Bline	d du	alica	te = w san	
		- /	, ,	l		FW	26/10	2009	w sar	nol
						Line	of	1130		

Well Casing Diamete Bore Hole Diameter (i Annular Space (AS) L	in): Length (ft):			Well Number: Start Date: Start Time: Well TD: Well DTW: Water Column:	FW	1054/020 10-22-09 1315
Screened Interval (ft b				Pump Intake (ft bgs)		
WELL VOLUME CA	ALCUATIO	N				
Gallons p	er foot of and	nular space (	from chart on back	k) =		
			vhichever is less)	Χ		
	f water in AS			=		
Column o	er foot of cas	sing (from ch	art on back)	=		
	rwater fwater in cas	sina (aal)		Χ		_
			(AS + casing, gal)	=		_
	f EV to be pu		(AO + casing, gai)	X		_
	OLUME TO E		(gal)			_
	VOLUME PU			=		
Method of	Purging:	Pub	1,0 5400	In well		_
Field Parameters		-	7 1	Reading		
Гіте	1325	133/	/335			
/olume (gal)	100	200	300			Final Sample
Flow Rate (gpm)	20	20	20			
low nate (gpin)		_	_		1	N/A
						-
OTW (ft toc)	7.54	7.47	7,45			1 1
OTW (ft toc)	7,54	7.47	7.45			
DTW (ft toc) bH Conductivity (ųS/cm)		7.47 1322 12.54	7.45 1326 12.51			
DTW (ft toc)  DH  Conductivity (ųS/cm)  Cemperature (°C)	1308	1				
DTW (ft toc)  DH  Conductivity (ųS/cm)  Cemperature (°C)  Turbidity (NTU)	1308	1				
DTW (ft toc) DH Conductivity (ųS/cm) Femperature (°C) Furbidity (NTU) Eh/Redox (mV) DO (mg/L)	1308 12.02 7.58	1				

Sampler's signature/date: Reviewer's signature/date:

FORT	WINGA	TE DEPOT	ACTIVITY			Well Nu	ımber:	CW	Wor	2
LOW	FLOW W	ELL SAMI	PLING DAT	A FORM	1	Start Da	ate:	20	OCT	2009
						Start Ti	me:	00	115	
Well C	asing Diam	eter (in):	2			Well TD			700	<u> </u>
	ole Diamet		0			Well DT		au 25	14.1	-7
		S) Length (ft):	17			Water C		73	70	92
	d Interval		25-35				take (ft bg	(s):	369	-
			UME CALCU	ATION		r ump m	iune (it og	,5).	)-)-(	-
		Gallons per	foot of annular	space (fre	om chart	on back)		= 0	73	
			vater or length		nichever i	s less)		X	2	
			vater in AS (ga					= 8	.76	
			foot of casing	(from chai	rt on back	()		= 0.	163	
		Column of v		(1)				X Z	3.28	-
			vater in casing VALENT VOI		71 (AS ±	casing gal	0.0	= - 7	5.19	-
			OLUME PUR			casing, gai,			155	-
Method	of Purging		OLOMET ON	OLD (gai	B.W	flow		7 - 10	-	
			30		000	1 10				-
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	пЦ	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)
2011	f 3	100	volume (L)		pH Q V	(µ5/cm)		COL	(IIIV)	
0995	5	140		14.62	0.16	113	10.98	7.04		0.01
0950	5	140		[4,67	10.11	-01	10.93	5.01		0.05
0405	10	140		14.62	8.32	780	1091	4,44	7	0.05
1000	15	140		[4.62	837	784	10,85	2.99		6,05
1005	20	140		(4,62	8.37	784	10.98	1.99		0.03
1010	25	HO.	<b>V</b>	1467	840	783	10.91	2.25		0.03
1015	30	140	2,1	14.6	1841	782	10,99	2.24		0.03
	,	1.2		10.50				25		
									Fig. 20	
							0			
								190		5
									· ·	
Purging	Field Note	es:								
7/	1011	5M1	30psi	- 1	40 m	O lini	11.			
	00	JUVI	ropse	- (	1000	- force				
C1	Data /T:	1/12/1 7	n MeT) are	. C	a ID/TD	#. C 144	1/100	1177 1971	2	
Sample	Date/11me	1000 2	00T2009	Sampl	ic ID/IK	#	001	102000	1	

Sampler's signature/date:

FORT WINGA	TE DEPOT	ACTIVITY			Well Nu	ımber:	an	IWO	A
LOW FLOW W	VELL SAM	PLING DAT	A FORM	1	Start D		70	OCT	700
					<b>─</b> Start Ti		ewin	25-	17112
Well Casing Diam	eter (in):	7.			Well TE		43	871	37.91
Bore Hole Diamet		9			Well DT		CAUS	13	45.1
Annular Space (A	S) Length (ft):	22	•		Water C		81	.78	
Screened Interval	(ft bgs):	115-135	5		Pump In	take (ft bg	(s):		_
		LUME CALCU					-	37	
		foot of annula water or length					=(	113	-
		water of length water in AS (ga		iichever i	8 (688)		= 11	0.06	-0
		foot of casing		rt on back	()		= 0,	163	-
	Column of v						X 8	1.78	_
		water in casing			20		= 15	3.33	_
		VALENT VOI OLUME PUR			casing, gal	)	= 2	9,39	-
Method of Purging		OLUME I UN		wf	ow			15	
				00 1					-
Time Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	pН	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)
17 1	100	voidine (L)	1517	227	Ende	14.01	1003	(111 * )	200
11/20 5	110	-	45.17	0.22	2000	12 QQ	997		0,08
133 8	110		15.12	050	FAOR	12.00	101		0.00
121 11	110		45 12	047	50U	01707	100		(207
120 14	110		16.0	812	509	17 77	120		001
147 17	110		1617	8 47	500	12:11	1195		0,06
115 70	110		1517	210	FUL	112.11	0.79		ON
Hag 22	(11)	-200F)	1517	000	CIE C	1700	101		015
10 20	LIC	7152	77/12	-0.12	515	12,00	1.01		0.00
		100			7	~151	D3_1	1 11	_
		Clut	-		4	212	- /	WI	+
			1						-
									-
									-
									-
									-
	L			J					
Purging Field Not	es:					,			
	( - c -	10 -0:		110 -	101				
700fg	con	40psi	N	IUN	re/in				
Sample Date/Time	: 20 OT O	1 1150	Samp	le ID/TR	#: CM	WD4	10200	9	
Sampler's signatur		SAL			230			•	
Reviewer's signatu	ire/date:	Matte	Mint	7	30ct	29			

FORT V	WINGAT	TE DEPOT	ACTIVITY			Well Nu	mber:	CM	NO	1
LOW F	LOW W	ELL SAME	LING DATA	A FORM	[	Start Da	te:	20	OCT	2009
		N=10-10-10-10-10-10-10-10-10-10-10-10-10-1				Start Ti	me:	13	10	1
Well Cas	ing Diame	eter (in)	2			Well TD		66	.60	
	e Diamete		62	_		Well DT		30	95	•
		) Length (ft):	23			Water Co		71	65	1.5
	Interval (					Pump In	ake (ft bg	s): 64	,27	***
			UME CALCU	ATION						
			foot of annular					= 0,	13	
			vater or length		ichever is	s less)		X .	23	•
			vater in AS (ga		a an baala	·		= 16	1/02	ei
		Column of v	foot of casing	(from cnar	t on back	)		X 27	165	
			vater in casing	(gal)				= 1	.50	•
			VALENT VOI	2-7-7-20 CV	/] (AS +	casing, gal)		= 7.1	130	14
40			OLUME PUR			2.64		= 01	5	10 -×
Method o	of Purging	:	4	Low	- Flo	W				20
Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
Time	Elapsed	(mL/min)	Volume (L)	(ft toc)	рН	(µS/cm)	(C)	(NTU)	(mV)	(mg/L)
1310	0	90	39.2	39.2	782	1520	12.72	-3.23		0.08
1313	3	90		39.2	7.87	1520	12.50	0.84		0.07
1316	6	90	-	39.2	7.98	1520	12:43	0,67		0.07
1319	9	90		39.2	7.99	15 lo	1239	0.68		0.07
1322	12	90		39.2	7.90	1510	12.25	0.55	2.000	0.07
1325	15	90		39.2	7.92	. 1520	12.14	0.21		0.06
1328	18	90	4	39.2	7.93	1520	12.04	0.14		0,06
133	21	90	1.89	39.2	793	1520	12,02	0.63		0,06
						1-10	520			
						11-	Dut	+		
							y	-		-
		89								
										1
Purging	Field Note	es:		- 0:	0	, ^				
_20	OAK	60n "	40psi	- 90	me/	min				
	00		1			11				
Sample	Date/Time	: 1330	20 OCT 200	9 Samo	le ID/TR	#: <i>CM</i>	WOTE	02009		
			SALL							
2000 00 10 10 10 10 10 10 10 10 10 10 10	's signatur		MA	2	230					
Reviewe	er's signati	ire/date:	TULANY	WIT	450	CTOI				

 Well Number:
 CMW-10

 Start Date:
 10/22/09

 Start Time:
 1000

 Well Casing Diameter (in):
 2
 Well TD:
 73.1

 Bore Hole Diameter (in):
 \$
 Well DTW:
 6.4.7.5

 Annular Space (AS) Length (ft):
 2
 Water Column:
 8.35

 Screened Interval (ft bgs):
 53.7-73.1
 Pump Intake (ft bgs)

## WELL VOLUME CALCUATION

Gallons per foot of annular space (from chart on back)	=	0.13
Column of water or length of AS (whichever is less)	X	8.35
Volume of water in AS (gal)	=	6.10
Gallons per foot of casing (from chart on back)	=	0.1632
Column of water	X	8,35
Volume of water in casing (gal)	=	1.36
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	=	7.46
Number of EV to be purged	X	3
TOTAL VOLUME TO BE PURGED (gal)	=	22.38
ACTUAL VOLUME PURGED (gal)	=	7.0
W 1.		

Method of Purging: BAILER / FRED GEBHARDTY VIM HUG-

Field Parameters					Reading				
Time	1000	1008	1017	1026	1030	1041	1048	1055	Final
Volume (gal)	/NITIAL	l	2	3	4	5	6	7	Sample
Flow Rate (gpm)									N/A
DTW (ft toc)								To the second	
рН	8.92	7,24	8,28	9.80	10.94	11.01	11.61	1	4
Conductivity (ųS/cm)	520	515	383	533	566	566	411-	-4110	1/2
Temperature (°C)	11.17	11.41	10.65	11.48	11,42	11.46	11.42	(	y_
Turbidity (NTU)	575	119	626	523	500	855	392		
Eh/Redox (mV)									
DO (mg/L)	9.63	5.90	5.01	5.98	4.78	4.29	4.71		

<b>Purging</b>	Field	Notes:	
----------------	-------	--------	--

RECHARGES

Sample Date/Time:

Sampler's signature/date:

Reviewer's signature/date:

Sample ID/TR #:

MW16/02009

Well Casing Diameter ( Bore Hole Diameter (in) Annular Space (AS) Lei Screened Interval (ft bg	ngth (ft): s):				Well Number: Start Date: Start Time: Well TD: Well DTW: Water Column: Pump Intake (ft bgs	CMM 266 101	JW 2T 09 5	
WELL VOLUME CAL	.CUATION							
		ular space (fi			= \		_	
		gth of AS (wh	nichever is I	ess)	x \		_	
	vater in AS		ut an baald		=		-	
Column of v		ng (from cha	irt on back)		= X		-	
C. (1) - (1)	water water in casi	ing (gal)			^ _	\	-	
		LUME [EV]	(AS + casing	g, gal)	=		=	
	EV to be pur				×			
TOTAL VOI	LUME TO B	E PURGED	(gal)		=		-	
ACTUAL V	OLUME PUR	RGED (gal)			=		-	
Method of F	urging:							
Field Parameters					Reading			
Time								Final
Volume (gal)								Sample
Flow Rate (gpm)								N/A
DTW (ft toc)								
рН								
Conductivity (ųS/cm)								
Temperature (ºC)								
Turbidity (NTU)								
Eh/Redox (mV)								
DO (mg/L)								
Purging Field Notes:  CHWID WE  Heynd Jaw  Set,	rs per Dod O	sed i	and h ui	para ite f	meters of	alon.	previ	ous (
Sample Date/Time: Sampler's signature/o Reviewer's signature/	0	1015 2011 MM	2600 1600	1 201 en 7 VISCO	9 Sampl 6007 2009	e ID/TR #: (	CMWIL	) <u>(() 200</u>

- 1				ACTIVITY			Well No	ımber:	CW	WIC	<u> </u>
Ī	LOW ]	FLOW W	ELL SAMI	PLING DAT	A FORM	1	Start D	ate:	21	OCT 2	09
							Start Ti	me:	17	155	
1	Well Ca	asing Diam	eter (in):	2			Well TI	):	9	6:75	
F	Bore Ho	ole Diamete	er (in):	8			Well Di		16	72	_
A	Annular	Space (AS	S) Length (ft):	12			Water C		80	0,02	,
S	Screene	d Interval (	ft bgs):	10				itake (ft bg	(s): 9 E	2.76	7
				UME CALCU			36			111	-
				foot of annula					= 01	73	_
				vater or length		nichever i	s less)		X	2	_
				vater in AS (ga foot of casing		1 1	,			176	-
			Column of v		(Hom chai	t on back	()		$=$ $O_1$	163	-
				vater in casing	(gal)				= 12	204	-
				VALENT VOI		V] (AS +	casing, gal	)	= 7	408	-
			ACTUAL V	OLUME PUR	GED (gal	)			= 0	175	_
N	Method	of Purging	:		2157	Lo	WF/	000			-0
	Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	pН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox	DO
7	24	(1)	170	(L)	1673	12.78	(H3/CIII)	10 91	51 92	(mV)	(mg/L
3	bula	3	170		16.27	17.96	50.70	11 00	777		6.0
6	361	6	170		11.72	1300	5970	1113	293		6.01
91	2021	9	170		16.23	12.50	EQ 70	11.14	294		00
351	100	12	170		16.22	1210	COR	1111	7/2	-	000
上上	1	15	170	< /	11 72	12/16	FACO	11.19	256	-	000
	DIV	18	170	20-	11 22	12 0	5000	11.12	3.56		0.08
4		10	110	3,4	16:23	19161	20160	11.00	2.61		00
L							W50	160			
								10			
r				15							
-											
			4 2								
H		-									
-											
		H 1000 1000 1000 1000									
$\vdash$								-			
L									1		
P	Purging	Field Note	es:	,			ο	,			
	10	OFR 12	con 3	35 psi	ニル	170	ml/a	nn			
		00					ı				
_	, ,	D . /T'	17/15	TINTIP	) C1	- ID/TD	u. C 1/1	11) 1/1	1020719	?	
				21 00T 09	Sampi	e ID/TR	#: <u> </u>	W14	102001		
S	Sampler	r's signature	e/date:	M	400	un	23	oci 2	2009		
	50 59	er's signatu		MITH	11/75	77 004	-09				

## WELL VOLUME CALCUATION

Gallons per foot of annular space (from chart on back)	=	0.73
Column of water or length of AS (whichever is less)	X	22
Volume of water in AS (gal)	=	16.06
Gallons per foot of casing (from chart on back)	=	0.1632
Column of water	X	37.68
Volume of water in casing (gal)		6.15
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	=	22.21
Number of EV to be purged	X	3
TOTAL VOLUME TO BE PURGED (gal)	=	66.63
ACTUAL VOLUME PURGED (gal)	=	7 GALS

Method of Purging: BAILER

Field Parameters	Reading							
Time		Final						
Volume (gal)		Sample						
Flow Rate (gpm)		N/A						
DTW (ft toc)								
рН								
Conductivity (ųS/cm)								
Temperature (°C)								
Turbidity (NTU)								
Eh/Redox (mV)								
DO (mg/L)								

## **Purging Field Notes:**

DIF	FICULTI	ES WI	TH PUMP.	WELL	WAS	PUMPED	DRY (76	ALS)	PREVIOUS	124
							1 COLLEC			,
							REMOVED			

Sample Date/Time:

Sampler's signature/date:

Reviewer's signature/date:

Sample ID/TR #:

MW17102009

Well Casing Diameter (in): Bore Hole Diameter (in): Annular Space (AS) Length (ft): Screened Interval (ft bgs):				- - -	Well Num Start Date Start Tim Well TD: Well DTW Water Co Pump Inta	e: e: /:	26 0 115 	CT 201 0 54.	24
WELL VOLUME CA	LCUATION	١		_	96-5-50-90 <b>*</b> 50-00-698	, ,,			-
Column of Volume of Gallons pe Column of Volume of ONE EQUI Number of TOTAL VO	water or len water in AS r foot of cas water water in cas VALENT VO EV to be pu DLUME TO E	igth of AS (v (gal) ling (from ch sing (gal) DLUME [EV Irged BE PURGED		less)	= X = = X = X = X = = X			-	
Field Parameters					Reading			$\overline{}$	
Time									Final
Volume (gal)									Sample
Flow Rate (gpm)									N/A
DTW (ft toc)									1377
рН									
Conductivity (ųS/cm)									
Temperature (°C)									
Turbidity (NTU)									
Eh/Redox (mV)						1			
DO (mg/L)						1			
Purging Field Notes:  Well wo  and 1  Very slo	so sa utrat w to	e fait	ed de rite = enge.	rectly wax	see an	de ori	by 4	YOC S it oz days	Eauple Leater prior
Sampler's signature/o		SOL	Ipon	en 2	6 OCT	2009			V20
Reviewer's signature	date:	4/1/1/0	K (	0/26/09		- 1			

.

FORT WINGA LOW FLOW V				1	Well Nu Start Da		CW	WL:	8_
LOW PLOW V	VELL BANI	LING DAT	A FORIV	1	Start Di		91	20	ra -
Well Casing Diam	eter (in):	5			Well TD		51	10	04
Bore Hole Diamet		2	_		Well DT		1	06	-
Annular Space (A		27			Water C		13	05	-
Screened Interval		34-5	4			take (ft bg	(s): 51	.77	-
		UME CALCU	JATION		1	(			•
		foot of annular					= 0:	73	20
		vater or length		nichever i	s less)		X 13.	05	-
		vater in AS (ga		1 1			= 9	52	-
	Column of v	foot of casing	(irom chai	n on back	()		= $0.1$	05	
	Column of	vater in casing	(gal)				= 7	13	-
		VALENT VOI		V] (AS +	casing, gal)	)	= 11.	65	-
	ACTUAL V	OLUME PUR	GED (gal)		10		= 0,	75	
Method of Purging	g:			low-	tlow				-
Time Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
Elapsed	(mL/min)	Volume (L)	(ft toc)	pН	(μS/cm)	(C)	(NTU)	(mV)	(mg/L)
0930 0	170	0	41.05	7.36	9110	12.00	1.85		0,08
0933 3	170	8	4.05	737	9100	1196	1,25		0,07
0936 6	170	8	46.05	7.40	9110	11.90	0.77		008
0939 9	170		4.05	7,44	9120	1194	0,66		0,07
0947 12	170		41.05	7.46	9110	1198	0.56		0.07
0995 15	170		41.05	7.48	9170	11.98	0.65		6,07
0099 18	170	300ml	4.10	7.50	9120	1196	1.28		0.07
							74		
						71			
		2							
								1000	
					,				
			12						

Purging Field Notes:	,	SAN,	
120th 600 34	osi -> trono	able to same	ple well
VOITA AND OF UX	ath.		QA/QC well
Sample Date/Time: 1000 100	20 21 OCT 2009 Sample ID/TR #:	CHW 18 10 2009	(FW03)
Sampler's signature/date:	Mulboner	23 OCT 2009	•
Reviewer's signature/date:	Whith Most 10/231	109	

FORT	WINGA	TE DEPOT	ACTIVITY			Well No	umber:	~	- CA	Aurt	9
T OWN TO COMPANY OF THE PROPERTY OF THE PROPER							Start Date: 10/22/09				
						<b>─</b> Start T		10	-		
Well C	asing Diam	eter (in):	2			Well TI		51	30		
	ole Diamete		8			Well D		24	15	•	
Annula	r Space (AS	S) Length (ft):	17"			Water C	Column:	27	.15	•	
Screene	ed Interval (		Basart	8.5 36	3-51.	3 Pump Ir	ntake (ft bg	(s):			
			ÚME CALCU		1				72		
			foot of annula vater or length					$=$ $\frac{\mathcal{O}_{c}}{X}$	7		
			vater in AS (ga		nene ver i	3 1033)			2.4		
		Gallons per	foot of casing		rt on back	c)		= 0./	63	- 415	7 .
		Column of v		2 40				X	7	- 2 p	Tour
			vater in casing VALENT VOI		V1 (AC +	oosina asl	`		77		
			OLUME PUR			casing, gai	)	= 15	GAL	22	
Method	l of Purging			PUMP		D CEL	SHARD	T4 Ji		G-	
Time	Minutes	Flow Rate	Cumulative	DTW	1	Cond.	Temp.	Turbidity			1
Time	Elapsed	(mL/min)	Volume (L)	(ft toc)	pН	(µS/cm)	(C)	(NTU)	Redox (mV)	DO (mg/L)	
1214	0		0	24.15	10.14	1460	13.84			1.92	
1230	16		0.50	24.15	9.90	1343	12.73	12 5 1-		30,2	.87
1237	7		0.75	24.15	9.87	1315	12.84	34.1		.81	
1248	11		1 GAL	24,15	9,85	1313	12.80	37.2		. 79	
*		PUMP	SPITT	ING	N2.	WEL	L PU	MPED			
		EAR	LIER.								
							(2)	*			
										17.4	
									£ .		
Puroina	g Field Note	es:								33	
- arging	5 1 1010 1100										
									V.)		
Sample	Date/Time	:	- Justie	Samp	le ID/TR	#:_ CN	W1910	2009	£		
Sample	er's signatur	re/date:	Fudie	18.10	Weln	est					
Review	er's signatu	ire/date:	AMATA	1/1/1	0/20/	53		<del></del>			

1.8.4

Start Date:         76 00 2009           Start Time:         1150
Tell Casing Diameter (in):  Well TD:  Well DTW:  Mater Column:  Pump Intake (ft bgs)  Well TD:  49.5
ZELL VOLUME CALCUATION
Gallons per foot of annular space (from chart on back)  Column of water or length of AS (whichever is less)  Volume of water in AS (gal)  Gallons per foot of casing (from chart on back)  Column of water  Volume of water in casing (gal)  ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)  Number of EV to be purged  TOTAL VOLUME TO BE PURGED (gal)  ACTUAL VOLUME PURGED (gal)  Method of Purging:
eld Parameters Reading
me Final
olume (gal) Sample
ow Rate (gpm)
TW (ft toc)
н
onductivity (ųS/cm)
emperature (°C)
urbidity (NTU)
h/Redox (mV)
O (mg/L)
Collected samples 2504 600 30psi until vomontos late, 12 L Shy of full set (- Sups) complete last 12 L at 40 of 300 30, after 42 L completely vomont of water ample Date/Time:  150 26007 2009 Sample ID/TR#: CMW 1910 2009 ampler's signature/date:
eviewer's signature/date:

Well Number:

					Well Num Start Date Start Tim	e:	10-	W-20	7
Well Casing Diameter Bore Hole Diameter (in		2	1	_	Well TD:		120.	23	
Annular Space (AS) Le Screened Interval (ft b	ength (ft):	96.5	7 -116,5	-	Well DTW Water Col Pump Inta		114, 5,	52	_
WELL VOLUME CA	LCUATION	N	1	-	· sinp into	ine (it bgs)		123	_
Gallons pe	er foot of ann	iular space (	from chart o	n back)	=	$\circ$	73		
	water or len				X	- 0	7/	2	
	water in AS			etesto 1.4	=	4	,17		
	er foot of cas	ing (from ch	art on back)		=	0.	163	<u>.</u>	
Column of					X	5.	7/		
	water in cas				=	0	,93	•	
	IVALENT VO		(AS + casin	g, gal)	=	_5,	/		
	EV to be pu LUME TO B		(aal)		X	-,3	7	e.	
	OLUME PU		(gai)		=	15.			
Method of		_ba	iler		=	/			
Field Parameters	I				Reading			%	
Time	1335	1345	1355			T			Final
Volume (gal)	0.25	0.75	1						Final Sample
Flow Rate (gpm)									N/A
DTW (ft toc)		118.31	119.90	>					IV/A
рН	8.77	8.87	8,92						
Conductivity (ųS/cm)	698	700	699						
Temperature (°C)	12.48	12.21	12.29						
Turbidity (NTU)	210.0	331.7	7/000						
Eh/Redox (mV)								54	
DO (mg/L)	3,94	3.00	3,30						
Purging Field Notes:	) nea	ter	Mi	thdra	aus	was	cloa	L.	
Water &	De creu	no pr	iogro.	ssine	ly C	land	ier u	bay	ling
Bailed	dry	aste	r re	Nouc	0 0	12	1 sa	P.	7
Sample Date/Time:	J	110.54	AMPIF	C13/1	FITE	Sample ID	/TR#: /	MW2	21009
Sampler's signature/o	date:	Th	ant 1	Tollo	16-15			10100	21001

Well Casing Diameter (in): Bore Hole Diameter (in): Annular Space (AS) Length (ft): Screened Interval (ft bgs):	Well Number: Start Date: Start Time: Well TD: Well DTW: Water Column: Pump Intake (ft bgs)	(MW-23 10-15-09 1415 106.6 97-14 9,46
Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) Volume of water in AS (gal) Gallons per foot of casing (from chart on back) Column of water Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) Number of EV to be purged TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal) Method of Purging:	= 0,1 x 9, = 0,1 x 9, = 0,1 x 9, = 25, = 1,1	73 46 91 163 46 54 45 3 3 35

Field Parameters	Reading								
Time	1425	1435	1445						Final
Volume (gal)	0.5	/	1.5						Sample
Flow Rate (gpm)									N/A
DTW (ft toc)	99.67	10226	104.91						
рН	9.06	8.91	8.94						
Conductivity (ųS/cm)	1840	3740	6120						
Temperature (ºC)	12.50	12.57	12,59						
Turbidity (NTU)	71000	84.9	572.4						
Eh/Redox (mV)									
DO (mg/L)	4.72	3.88	2.63						

Purging Field Notes:				
Initially,	neater i	uas claa	, but be	came very
silty just	before	the well.	bailed de	, Removed
21,73 gal	bedow u	iell ment	dry (	
J	0			
Sample Date/Time:	NOSAMPL	E CULECTE,		CMW2310091
Sampler's signature/date:	Frant	Kolb 10-15	-09	
Reviewer's signature/date:	Mathered	+10/23/09		

			ACTIVITY PLING DAT		1	Well No	ate:	22 CM	UZ ZIZ	1
Bore H Annula Screene	asing Diam fole Diameter Space (AS ed Interval (	er (in): S) Length (ft): (ft bgs): WELL VOI Gallons per Column of v Volume of v ONE EQUI ACTUAL V	230 - Z LUME CALCU foot of annular water or length water in AS (ga foot of casing	r space (from character) (gal) (LUME [EV	nichever rt on back V] (AS +	on back) is less)	D; TW: 'olumn: itake (ft bg	= D X = 2, = 0, X 21, = 2,	3,43 58,3 173 32 5,36 163 3,34 4,77 0,13	3
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
155	0	140	O O	46.91	7.64	2670	15.01	125.9	(III V)	6.07
1158	3	140	.420	46.91	8.28	2690	13.92	135.4		006
1201	6	140	.840	46.91	8.52	2690	14.71	61.55		0.06
204	9	140	1.260	46.91	8.61	2700	14.98	113.4		0.05
207	12	140	1.680	46.91	8.63	2700	14.77	98-66		0.05
20	15	190	1.10	46.91	8.61	2710	13.87	93.24		0.05
1213	18	140	1.520	46.91	8.60	27/0	13,96	91.85		0.05
		7	*							
						н.				
100 20 Sample	Field Note	50 on 8	SOPSU = 19 BOPSU = BOPSU = BALL	10 ml,	/inm	HE CMU	me & furm 2411	talsi sauge 2009	lizer no ngOr	horing

Reviewer's signature/date:

FORT WINGATE DEPOT ACTIVITY	Well Number:	CMW25
LOW FLOW WELL SAMPLING DATA FORM	Start Date:	10-16-07
0	Start Time:	1145
Well Casing Diameter (in):	Well TD:	98,78
Bore Hole Diameter (in):	Well DTW:	36.48
Annular Space (AS) Length (ft): 27	Water Column:	62.30
Screened Interval (ft bgs): 71-96	Pump Intake (ft bgs):	96.78
WELL VOLUME CALCUATION		- 172
Gallons per foot of annular space (from cha	art on back) =	= 0,73
Column of water or length of AS (whichever	er is less)	27
Volume of water in AS (gal)	=	19.71
Gallons per foot of casing (from chart on b	ack) =	0,163
Column of water	X	62,30
Volume of water in casing (gal)	8=	10.15
ONE EQUIVALENT VOLUME [EV] (AS	+ casing, gal) =	29.86
ACTUAL VOLUME PURGED (gal)	=	3/7
Method of Purging: / Dw Yow		

Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1205	0	70	0	37.21	_		,	_	(22.7)	-
1210	5	50	0.25	37.75	9.15	1040	17.58	8.01		1.57
1215	10	50	0,5	38,12	9.27	1044	1271	3.95		1.31
1220	15	70	0.85	3853	9,25	1051	16.58	2.32		1.18
1230	25	70	1,65	39.26	9.27	1046	17.16	2,47		1.05
1240	35	70	2.25	39.77	9.27	1050	17.57	3.21		1.08
1250	45	110	3.35	40.70	9.26	1055	17.40	2.01		1.01
1255	50	120	3.95	41.73	9.29	1053	16.15	2.25		0.95
1300	55	120	4.55	42.42	9.3/	1053	15,47	1.94	1997	0.88
1315	70	120	6.35	45.11	9.31	1054	15.51	1.98		0.85
1330	85	150	8,6	47.55	9.31	1052	14.92	2.44		0.81
1345	100	220	11.9	51.54	930	1051	14.20	19.48		1.01
1350	105	50	12.15	51.71	9.27	1055	16.35	19.84	^	1,20
1355	110	40	1235	51.81	9.26	1054	18.16	23.65		1.20
1400	115	40	12.55	51.85	9.15	1055	19.55	17.26	.7	1.16
1405	120	40	12.75	51.91	9.05	1055		11.20		1.07

Purging Field Notes:

Water level immed drapped > 0.3 on first purge & Fedi=60, purge 5.

Then a tempted to increase purge a pump well dry. After 105 min,

Sample Date/Time: 10/18/09 1500 Sample ID/TR #: CMW25102009 decreased purge to

Sampler's signature/date: Frank Lolb 10-16-09 450c, increased

Reviewer's signature/date: MMM/Mot 10/23/09 Tech to 75 Sec.

Achieved flow rate of 30 ml/min a water

level stabilized dramatically. Parameters were stable,

Proceeded w sample collection.

P9 20 f2

FORT WIN	NGATE DEPO	OT ACTIVITY	Y		Well N	umber:	CI	nw &	25	
LOW FLO	W WELL SA	MPLING DA	TA FOR	M	Start I	Date:	10	-16-	09	
		^			Start T	ime:	/	145		
Well Casing	Diameter (in):	2			Well T		98	78		
Bore Hole Di		8			Well D		31	48	_	
	e (AS) Length (	ft): <u>27</u>			Water 0	Column:		3. 10		
Screened Inte					Pump I	ntake (ft b	gs):		=	
		OLUME CALC					**************************************		-	
	Column of	er foot of annula	ar space (fi	rom chart	on back)		=		-	
	Volume o	of water or length of water in AS (g	n 01 A5 (W ral)	nichever	is less)		X		- /	
		er foot of casing		art on bac	k)				- / 51	00
	Column o	of water			//				- \	199
		of water in casing					=		- ( )	0
	ONE EQ	UIVALENT VO	LUME [E	V] (AS +	casing, gal	1)	=		_ \	1
Method of Pu		VOLUME PUI	1				=		- )	,
			w ti	OW						
Time Mini Elap			DTW		Cond.	Temp.	Turbidity	Redox	DO	
410 10	/ .		(ft toc)	pH	(µS/cm)	(C)	(NTU)	(mV)	(mg/L)	
710 17	5 40	12.95	51.47	8.95	1055	20.37	11,02		0.97	
415 13	0 30	13.1	51.99	891	1055	20.96	5.93		0.93	
420 13	5 30	13.25	52.04	8,90	1056	21.28	5,97		0.92	
425 14	0 30	13,4	52.04	8.90	1056	7136	441		0.90	
1120 14	5 30	13,55	C2 :1		1000	01.0	7:11		-	
750 /7		-	52.11	8,87	1051	21.65	3.65	)	0.87	
733/5	0 30	13.7	52,15	8.85	1057	21.49	2.81		0.83	
740 15	5 30	13.85	52.15	8,84	1058	21.61	3.38		0.82	
445 16	0 30	14.0	52,18	8.85	1058	21.79	2.43	7	0.80	
447 16	230	14.06			1037	21.46	2,64		0.81	
1	V 00	, , , , ,	20,000	,0_	1001	041.14	0101		0,01	
		,	,			,				
640 F	mal u	aler /	evel	=	53.	11				
		-								
urging Field	Notes:									
no 1		tion ga.	7.1	001	- 1	1		Ma.	400 1	
T I	71						ing. /	wy	rued	
to be	pumpe	down	fur	ther	next e	vent		t	1	
ample Date/T	lime:	_	Sampl	e ID/TR	#:					
ampler's sign	ature/date:		ž%		3		_			
eviewer's sig										
criewel a alg	mature/date.									

FORT WINGATE DEPOT ACTIVITY	Well Number:	Km 16-09
LOW FLOW WELL SAMPLING DATA FORM	Start Date:	10-15-09
Well Casing Diameter (in):  Bore Hole Diameter (in):  Annular Space (AS) Length (ft):  Screened Interval (ft bgs):  60-70'	Start Time: Well TD: Well DTW: Water Column: Pump Intake (ft bgs):	7015 1040 72.9 39.20 33.7 70.9
WELL VOLUME CALCUATION Gallons per foot of annular space (from cha Column of water or length of AS (whicheve Volume of water in AS (gal) Gallons per foot of casing (from chart on ba Column of water .  Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS ACTUAL VOLUME PURGED (gal)	r is less)	8.76
Method of Purging:low +low		

Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1045	0	90	0	39.20	7.81	3450	12.71	4.42		3.09
1050	5	90	0.45	39.20	8.19	3480	12.33	2.24		2.02
1055	10	90	0.9	39.20	8.28	3490	12.22	1.50		1.76
1100	15	90	1,35	39.20	8.23	3500	12.18	0.34		1.58
1105	20	90	1.8	39.20	8.18	3520	12.17	0.66		1.46
1110	25	90	2.25	39,20	8,14	3520	12,26	0.33		1.45
1113	28	90	2.52	39.20	8.11	3530	12.36	0.55		1,40
1116	31	90	2.79	39.20	8.09	3540	12.52	0,26		1.37
1119	34	90	3.06	39,20	8.07	3540	12.61	0091		1,34
1121	36	90	3.24		8.06	3550	12.62	. —		1.35
1123	38	90	3.42	39.20	8,05	3550	12.65	0,20		1.34
1125	40	90	3.6	39.20	8.04	3550	12.64			1.32
1127	47	90	3.78	39,20	8,03	3560	12.66	_		1,30
1129	44	90	3.96	39.20	8.03	3560	12.80	0.22	-	1,31

Purging Field Notes:

Very clear water. Pressure = 35-37 psi, rech = 30 sec,

Durge = 5 sec, flow rate = 90 ml/min. Final Hab lend

Sample Date/Time: 10/15/09 1203 Sample ID/TR #: KMW89102009 = 39.20'

Sampler's signature/date:

Reviewer's signature/date:

Math Math 10/23/09

Method of Purging:

Well Number: Start Date: Start Time: Well Casing Diameter (in): Well TD: Bore Hole Diameter (in): Well DTW: Annular Space (AS) Length (ft): Water Column: Screened Interval (ft bgs): Pump Intake (ft bgs) WELL VOLUME CALCUATION Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) X Volume of water in AS (gal) = Gallons per foot of casing (from chart on back) =

**Field Parameters** Reading Time Final 0.25 Sample Volume (gal) Flow Rate (gpm) N/A DTW (ft toc) pH Conductivity (ųS/cm) Temperature (°C) Turbidity (NTU) Eh/Redox (mV) 6.42 5.91 DO (mg/L)

Purging Field Notes: Very Clean water	Removed approx	2 9al
total before met	If was any	
	J	.7

Sample Date/Time:

Sampler's signature/date:

Reviewer's signature/date:

Agrample Collected

Sample ID/TR #:

KMW101009

FORT	WINGA	TE DEPOT	ACTIVITY			Well No	umber:	KI	nw i	1		
LOW	FLOW W	ELL SAMI	PLING DAT	A FORM	1	Start D	ate:	77	OCT	2009		
	1000-00411000-004110-0					Start T	ime:	0	910			
Well Ca	asing Diam	eter (in):	2			Well TI	):	57	7.44			
Bore H	ole Diamet	er (in):	8			Well D	ΓW:	32	140	_		
Annula	r Space (AS	S) Length (ft):	22			Water C	Column:	25	5.04			
Screene	ed Interval (	(ft bgs):	25-5	5		Pump Intake (ft bgs): 55.11						
			LUME CALCU			a			-7			
			foot of annula	0.0		- 27		=	.13			
			vater or length vater in AS (ga		nichever	s less)		X	22	- 1		
			foot of casing		rt on back	()		= (0)	162	-		
		Column of v		(iroin cha	t on oue.	-7		X 24	5.04	_		
		Volume of v	vater in casing	(gal)				= 2	L.DB	-		
			VALENT VO			casing, gal	)	= 20	0.14	_		
			OLUME PUR	RGED (gal			_	= <u>Ô</u>	.75	-		
Method	of Purging	;:	N		100	o Fl	OW			-		
Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO		
	Elapsed	(mL/min)	Volume (L)	(ft toc)	pН	(μS/cm)	(C)	(NTU)	(mV)	(mg/L)		
0910	_0_	160	D	32.40	8,21	991	11.55	43,60		0.07		
0913	3	160	.480	32.43	857	991	11:25	3.83		0.04		
0916	6	160	1960	32.46	8,68	994	11.63	3.52		0.04		
0919	9	160	1,440	32,49	8,70	996	11.63	37.68		0.04		
0922	12	160	1.920	32.52	8,73	998	11,66	76.58		0.03		
0975	15	160	2.40	32.55	8.74	997	1663	2.53		0.04		
0928	18	160	2,990	32.W	8.75	997	11.60	158,0		0.03		
Purging	Field Note	es:	. F	22	17.877							
	Turbidi	ty doe	sn't ap	pear to	o have	stab,	lized.					
		7	Ű	1								
Sample	Date/Time	0930	220010	9 Sampl	e ID/TR	#:_ KII	1WIL	102009				
	r's signature		/		1752.0	230						
Review	er's signatu	re/date:	AM	10	2300	+09						

Well Number:
KMWID

Start Date:
10/16/09

Start Time:
10/16/09

Well Casing Diameter (in):
Well TD:

Bore Hole Diameter (in):
Well DTW:

48.58

Annular Space (AS) Length (ft):
Water Column:

Screened Interval (ft bgs):
5.49 ~ 75.49

Pump Intake (ft bgs)

### WELL VOLUME CALCUATION

Gallons per foot of annular space (from chart on back)	=	0.73
Column of water or length of AS (whichever is less)	X	22
Volume of water in AS (gal)	=	16.06
Gallons per foot of casing (from chart on back)	=	0.163
Column of water	X	26.91
Volume of water in casing (gal)	=	4.39
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	=	20.45
Number of EV to be purged	X	3
TOTAL VOLUME TO BE PURGED (gal)	=	61.35
ACTUAL VOLUME PURGED (gal)	=	13

Method of Purging: BENNETT PUMP

Field Parameters					Reading				
Time	0902	0905	0907	0910	09/3	0920	0926		Final
Volume (gal)	INITIAL	3	5	7	9	11	13		Sample
Flow Rate (gpm)									N/A
DTW (ft toc)	48.58					6		,48	080
рН	6.87	6.81	6.85	6.89	6.92	7.43	7,72		
Conductivity (ųS/cm)		414	415	416	419	408	4086		
Temperature (°C)	11.41	11.30	11.28	11.27	11.28	11.29	11.41		
Turbidity (NTU)	29.9	12.5	38.7	18.5	42.7	13.3	10.5		
Eh/Redox (mV)									,
DO (mg/L)	0.29	0.18	0.16	0.16	0.14	0.13	0.15		

**Purging Field Notes:** 

PUMPED WELL FORY, SAMPLED AFTER WELL RECHARGED.

Sample Date/Time:

Sampler's signature/date:

Reviewer's signature/date:

0915

Sample ID/TR #:

KMW12102009

PER DESCRIPTION			ACTIVITY			Well N	umber:	TM	w-	21
LOW	FLOW W	ELL SAM	PLING DAT	A FORM	1	Start D	ate:		0-14-	09
			0			Start T	ime:	/	030	
	sing Diam		2			Well TI		_6	1,23	. ,
	ole Diamete		8			Well D			5.94	4
	d Interval (	S) Length (ft):	44-0	30		Water C		- 2	5,2	7
Screene	d Intervar (	N	LUME CALCU	JATION		Pump II	ntake (ft bg	(s):5	7.0-	?
		Gallons per	foot of annula	r space (fr				= 4	0.73	•
			water or length		nichever i	s less)		X	17	
			water in AS (ga foot of casing		rt on back	3		=	2,41	
		Column of v		(Hom chai	t on back	.)		x 25.	29	-
			water in casing					= 4.	12	
			VALENT VOI OLUME PUR			casing, gal	)	= 16	153	
Method	of Purging		/	W F	low	Auto	10	=	,0	
					/ CW	Par	) =			
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1150	0	50	0	36.04	7.57	2890	16.09	145,3		3.83
1155	5	50	0.25	36.05	7.61	2840	15.23	75.86		3.29
1200	10	50	0.5	36,05	7.64	2830	15,53	46,80		3.16
1205	15	50	0.75	36,06	7.64	2820	15.61	32.81		3.11
210	20	50	1.0	36.06	7.64	2850	15.60	28,00		3,05
1215	25	50	1.25	36.06	7.64	2260	15,56	,		3.07
1220	30	50	1,50	36.06	7.64	2800	15.64	8.99		3.03
1225	35	50	1.75	36.06	7.6	2810	15,72	7.21		2.91
1230	40	50	2.0	36.06	7.65	2810	15,98	4.37		2.90
1235	45	50	2,25	36.06	7.65	2810	15,99	4.54		2.91
1237	47	50	2.35	36.06	7.65	2810	15,91	4.87		2.91
1330				36,05						
1				36.05						
1405			I							

Reviewer's signature/date:

							_		7			
			ACTIVITY	. 500			Well Nu		_40	1000	<u></u>	
LOW	FLOW W	ELL SAMI	PLING DAT	A FC	ORN	1	Start Da		140	$\frac{2}{2}$	009	
		- 10000000	0				Start Ti			0945	24 00	
	asing Diamole Diamete		2	_			Well TD			5 ( 9 8	34.09	[
		er (in): S) Length (ft):	-8	_			Well DT Water C			29.91	•	
	d Interval (	M 70 M M	(14)6	70	_91	9		take (ft bg		32.09		
Servene	a mer m		UME CALCU	ATI(	ON	٠, ١	r ump m	itake (it og		12.0	•	
			foot of annular						=	,73		
			water or length		S (wh	nichever i	s less)			14		
			water in AS (ga foot of casing (		chai	rt on back	()			163	i .	
		Column of v		(HOIII	Circi	t on oues	.)		X	79.91		
			water in casing						=	1.88		
			VALENT VOI				casing, gal)	)	= /	5110	- 10	.0
Mathad	of D		OLUME PUR	GED	(gal	003	Flow		=	33	~160	4
Method	of Purging											
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DT (ft t		рН	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)	
0995	Diapseu	125	0.000		15	7.19	+ 1 -	014.33	45.96	(111 V)	[ [ ]	
0950	5	125	0.250	1	4.46	14.13	23.96		5.85			
0955	10	12.5	0.375			797	448.0	13.64	23.96		5.66	
1000	15	175	.500			8.06	446.0	13.49	10.98		5.33	
1005	20	125	,625			8.13	446.0	13.75	23.64		5.98	
1010	25	125	.750			8.15	4470	13.75	82.61		6.35	
1015	30	125	.875			8.17	447.0	13.71	42.08		8.17	6.40
1020	34	125	1.00		_	8.18	447.0	13.74	455.10		8+19	6.42
1025	40	125	1,125		V	8.28	447	14.13	25.42		8.19	
1030	45	125	11.250	56	. 1	8.22	447	13.85	16.54		\$6.3	4
			3750									
												-
												-
												-
												-
Purging	g Field Note	es:										
The	is we	mnis	a Olau	in	a l	ent	er fo	Ne	turn	too	vell	1
111	2001 ×	polar	red IIA	/ (	10	ldo	d. con	2-14	Fix 7 )	alve	)	1
Sample	Date/Time	1625	140cT 0	7 0	amn	le ID/TR	#: TU	1W02	182And	3		
			- ON	1,1	be	3/4/1-	10	LOCT	7/9-7/	। त		
	r's signatur		M HA	MA	-	10/2	1/20	000		appea	955	
Review	er's signatu	ire/date:	11/01/11/1	11000		10/60	101			cy !		1

stabilized but need more PTW neasurements & DO. is

			ACTIVITY PLING DAT		1	Well Nu Start D		TM	WO:	3
LOW	ELOW W	ELL SAMI	LING DAT	AFORN	1	Start D		40	10	004
Well Ca	asing Diam	eter (in):	7			Well TI		7.	7.06	
	ole Diamet		8			Well D7			Co ##	97
		S) Length (ft):	27			Water C		+E	4	15.14
Screene	d Interval (	C. (250.00)	49.8-0 UME CALCU	9.B JATION		Pump Ir	itake (ft bg	gs):	10.00	2
		The state of the s	foot of annular					=	0.73	-
			vater or length vater in AS (ga		nichever i	s less)		X 15	2:14	-03
			foot of casing		t on back	()		= 0	163	-::
		Column of v						X [1	5,14	**
			vater in casing					=	2.47	-
			VALENT VOI OLUME PUR			casing, gal	)	= 17	161	7-60
Method	of Purging	; <b>:</b>	————	OLD (gai	low	flow			5 Zi	.200
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1240	0	300	800	5692	140	4330	14,47	3.05		2.82
1,245	5	.300	.690	5707	7.72	4200	14.61	340.64		2.31
1250	10	.275	.875	57.11	7.75	4320	14.65	26.41		2.28
255	15	0275	1.150	57.11	7.76		14.63	1494		228
1300	20	.275	1.455	57.11	7.77	4330	14.53	18.75		2.15
305	25	.275	1.700	57.11	7.79	4330	14.58	32.48		2.21
1310	30	(275)	1.475	5711	7.80	4320	14.54	13.85		2.26
			9,000-	,		4.	20			
		1218	2/			- 10	X	D		
		July 1	81/				( )JIG			
		, /	\ \				0			
			V							
			1							
				4						
			0							2
Durging	Field Note	Ac.								
i urging	i iciu Note									

Sample Date/Time: 1315					102009
Sampler's signature/date:			ier	1400	12009
Reviewer's signature/date:	Math	Most	10/2	2/09	

FORT	WINGA	TE DEPOT	ACTIVITY			Well Nu	ımber:	TV	иша	4
LOW	FLOW W	ELL SAM	PLING DAT	A FORM	1	Start D	ate:	14	oct	2009
						Start Ti	me:	14	20	-
Well C	asing Diam	eter (in):	2			Well TI	):	7	2,25	
Bore H	ole Diamet	er (in):	8			Well D7	TW:	50	5.36	
Annula	r Space (AS	S) Length (ft):	22			Water C	olumn:		5.89	-
Screene	ed Interval (		50-71	2		Pump Ir	itake (ft bg	gs): 7	0,25	-
			LUMĚ CALČU		¥ 3	1 15		^	フフ	
			foot of annular water or length						173	2
			vater of length vater in AS (ga		nenever	3 (033)			160	5
			foot of casing		rt on back	c)			173C	163
		Column of v							5,89	-
			water in casing		71 / A.C				.59	-
			VALENT VOI OLUME PUR			casing, gai	)		3.48 .7-Ga	0
Method	l of Purging		OLC ML I CK	LOW	How				·Lac	
								[ m 1 · 1		
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp. (C)	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1430	0	330	330	56.36		400.0	13.80	23.80		5.38
1435	5	260	1.3		7.81	397.0	13.73	182.3		3.97
1440	10	260	2.6		7.85	397.0	13.76	190.2		3.17
1445	15	260	3.9		7.89	397.0	13.80	192.9		3.04
1450	26	260	5. 2	57.32	7.94	3960	13.71	203.7		2.85
1455	25	260	6.5		7.95	3950	13.75	1996		2.73
1500	30	260	7.8	1	7.97	3940	13.76	244.9		2.61
1505	35	260	9.1	57.44	7.97	3940	13.74	246.9		2.58
				_	24/	1,	940			
			1	1-2	1 1	70	110	TIV		
				do	P		1	100		
					A					
_										
Purging	g Field Note	es:								
		I.								
Sample	Date/Time	: 1510 1	40CT 09	Sampl	le ID/TR	#:_TW	w04	10 2009	)	
	er's signatur		-	11/2	2110	, 10	-007	20710	3	
				124	not	10	122/10			
Review	ver's signatu	ne/date.	- ///	1011/11	11011	C	0)107			

			ACTIVITY PLING DAT		I	Well No		To	1W-	7-09
Bore He Annula	asing Diam ole Diameter Space (AS ed Interval (	er (in): S) Length (ft): (ft bgs):	2 8 12 45-5 UME CALCU		15	Start Ti Well TI Well Di Water Ci Pump In	D: FW:	0 57 47 10 58: 55	910	- - -
Method	l of Purging	Gallons per Column of v Volume of v Gallons per Column of v Volume of v ONE EQUI ACTUAL V	foot of annular water or length water in AS (ga foot of casing	r space (fro of AS (whal) (from char (gal) LUME [EV	t on back (AS +	s less)	)	= C X /0 = V X /0 = V = Y = C	1.39	-
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
0950	0	30	0	47.30	7.78	4940	16.13	1.90		4.57
3955	5	20	0.15	47.30	7,58	4940	16.07	2.00		3.06

			,							
Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
	Elapsed	(mL/min)	Volume (L)	(ft toc)	pН	(µS/cm)	(C)	(NTU)	(mV)	(mg/L)
0950	0	30	0	47.30	7.78	4940	16.13	1,90		4.57
0955	5	30	0.15	47.30	7,58	4940	16.07	2.00		3,06
1605	13	30	0.45	47,25	7.59	3620	17.24	2,54		3.15
1010	20	30	0.6	47.28	7,58	4940	17,56			3.08
1015	25	30	6.75	47,30	7,56	4950	12.39	1,41		2.66
1020	30	30	0.9	47.31	7,54	4940	17.08	1.72		230
1025	35	30	1.05	47.32	7.33	4950	16.72	2.29		200
1030	40	50	1.30	47.36	7.52	4950	16.16	1,55		1.70
1035	45	50	1,55	47.36	7.52	4950	16.00	1.38	4	1.59
1037	47	50	1.65	47.36	7,52	4950	16,00	1.29		1.61
1039	49	50	1.75	47.36	7.32	4950	15.91	0,86		1.61
1040	50	50	1.8	47.36	7,52	4950	15.92	120		1.61
			0					,		
Fin	al wo	eter o	level 1	et 1	305	= 4	17.3	9		
								*		

	Purging Field Notes:				
	2	1 MS72 110	a la la Da	11.5-4	
	DERAN DUTGUE Q	T 0/30, VE	4 clear water. K	ogan w purgo 6	500
	N- 60-1 101	- 30.1/1	I reduced 1	In !	6000
a	nock - 10 Sec. 410	w- Soup ne	· Made CAME	o to recharge to	60sa
	./ 1-	9 1/00 6	e, ID/TR #: TMW06102009	Flant Marine	10
	Sample Date/Time: 10-17-1	9 109 Sampl	e ID/IR #: ///www.	. I was increased	10
	Sampler's signature/date:	1 Arant K	all 10-17-77	50 ml, min 9	X
	Sampler's signature/date.	14/1 -11 MAY 1	110	1. 4	vax
	Reviewer's signature/date:	MUNT MUNT	10/23/09	count eng	
	reviewer's signature date.	- 11/00/11/1000		state Possu	10 =
				Diroce from	Ce
				20151.	
				77/41/41	

			ı		Well Numb Start Date: Start Time	:	TMW 10/19/	07 109 3	
Well Casing Diameter (Bore Hole Diameter (in) Annular Space (AS) Les Screened Interval (ft bg	): ngth (ft):	2 8 12 57.37	67,37	•	Well TD: Well DTW: Water Colu Pump Intak	ımn:	67. 47.79 19.5	8	
WELL VOLUME CAL	CUATION								
Column of volume of TOTAL VO	water in casi VALENT VO EV to be pui LUME TO B OLUME PUR	gth of AS (what gal) Ing (from channing (gal) LUME [EV] Inged E PURGED RGED (gal)	nichever is le art on back) (AS + casing (gal)	ess)	= X = X = X = X = X	0.11 19. 3.1			
Field Parameters					Reading				
Time	that 3	1215	1216	1505	1519	1529			Final
Volume (gal)	INITIAL	)	2	3	5	6			Sample
Flow Rate (gpm)									N/A
DTW (ft toc)									
pH	7.16	7.38	7.50	6.99	7.56	7.81		. (	
Conductivity (ųS/cm)	5076	5090	5080	5080	5190	15340	- 53	HDA	NO
Temperature (°C)	14.51	1405	13.99	13.39	13.19	13.20		. 0	
Turbidity (NTU)	26.4	48.5	110	-	232	459			
Eh/Redox (mV)									
DO (mg/L)	6.32	3.16	2.74	6.50	3.25	3.93			
	WITH	12 V P1				NISHINO	; PURC	SING.	
Sample Date/Time: Sampler's signature/o Reviewer's signature/		10/20/ Fredm	109 C	0840 lebhan 10/23/	of g	Sample ID	/TR #:	TMWO	7102009

Start Date:   17-04-09	FORT W	INGAT	E DEPOT	ACTIVITY			Well Nu	ımber:	E	MWD	HT)	MW-
Well Casing Diameter (in):	LOW FL	ow w	ELL SAMI	PLING DAT	A FORM	1	Start Da	ate:		17-00	t-09	
Time Minutes Flow Rate Cumulative DTW Volume (L) (fytoe) pH (µS/cm) (C) Turbidity Redox (mL/min) Volume (L) (fytoe) pH (µS/cm) (C) (NTU) (mV) (mg/L) (MTU) (	Bore Hole I Annular Sp. Screened In	Diamete pace (AS interval (f	r (in): ) Length (ft): it bgs): WELL VOL Gallons per Column of v Volume of v Gallons per Column of v ONE EQUIT ACTUAL V	Jume CALCU foot of annular vater or length vater in AS (ga foot of casing vater vater in casing	JATION r space (fro of AS (wh al) (from chai  (gal) LUME [EV	t on back V] (AS +	Well TE Well DT Water C Pump In on back) is less)	D: FW: Column: ntake (ft bg	= 0 X 25 = 18 = 0.16 X 75 = 4 = 23	925 15 (1) 5.76 0.41 173 1.76 1.81 3 1.76 20 11	6.65	
Elapsed (mL/min) Volume (L) (ff. toe) pH (µS/cm) (C) (NTU) (mV) (mg/L)  010 0 50.0 0				Cumulative	DTW	4			Turbidity	Redov	-   DO	
015 5 50.0 0.25 36.65 7.24 1640014.69 180.1 2.10 020 10 50.0 0.50 36.65 7.34 1640014.69 180.1 1.60 025 15 50 0.75 36.65 7.35 16400 14.63 84.58 1.51 030 20 50 1.0 36.65 7.36 16400 14.68 75.37 1.49 1035 25 50 1.25 36.65 7.37 16400 14.75 76.96 1.341 040 30 50 1.50 36.65 7.38 16400 14.75 69.97 1.28 1045 35 50 1.75 36.65 7.38 16400 14.82 78.42 1.28		lapsed				рН			(NTU)			
020 10 50.0 0.50 36.65 7.34 16400 14.67 132.8 1.60 025 15 50 0.75 36.65 7.35 16400 14.63 84.58 1.51 030 20 50 1.0 36.65 7.36 16400 14.68 75.37 1.49 035 25 50 1.25 36.65 7.37 16400 14.75 76.96 1.34 040 30 50 1.50 36.65 7.38 16400 14.75 619 7 1.28 045 35 50 1.75 36.65 7.38 16400 14.82 78.42 1.28	010	0	50,0	0	1447	6.91	15300	14.84	85.78		4-16	
25 15 50 0.75 36.65 7.35 16400 14.63 84.58 1.51 030 20 50 1.0 36.65 7.36 16400 14.68 75.37 1.49 035 25 50 1.25 36.65 7.37 16400 14.75 76.96 1.3-1 040 30 50 1.50 36.65 7.38 16400 14.75 619.7 1.28 045 35 50 1.75 36.65 7.38 (6400)4.82 78.42 1.28	015	5	50.D	0.25	36.65	7.24	16400	14.69	180.1		2.10	,
030 20 50 1.0 36.65 7.36 16400 14.68 75.37 1.49 035 25 50 1.25 36.65 7.37 16400 14.75 76.96 1.341 040 30 50 1.50 36.65 7.38 16400 14.75 619 7 1.28 045 35 50 1.75 36.65 7.38 (6400)4.82 78.42 1.28	020 1	10	50.0			7.34	16400	14.67	132.8		1-60	
035 25 50 1.25 36.65 7.37 16400 14.75 76.96 1.34 040 30 50 1.50 36.65 7.38 16400 14.75 619.7 1.28 045 35 50 1.75 36.65 7.38 16400 14.82 78.42 1.28	25 1	15	50	0.75	36.65	7.35	16400	14.63	84.58		1.51	
040 30 50 1.50 36.65 7.38 16400 14.75 6197 1.28 045 35 50 1.75 36.65 7.38 16400 14.82 78.42 1.28	230 Z	0	50	1.0	36.65	7.36	16400	14.68	75.37		1.49	
045 35 50 1,75 36.65 7.38 (6400)4.82 78.42 1.28	035 2	5	50	1.25	36.65	7.37	16400	14.75	76.96		1.321	
	040 3	0	50	1.50	36.65	7.38	16400	14.75	6197		1.28	
7 1640	045 3	35	50	1,75	36.65	7.38	16400	14.82	78.42		1.28	
								9 160				

FORT	WINGA	TE DEPOT	ACTIVITY			Well N	umber:	iTW	11010	)
LOW	FLOW W	ELL SAM	PLING DAT	A FORM	1	Start D	ate:	19	OCT ?	2009
Bore H Annula Screen	asing Diam fole Diamete or Space (AS ed Interval (	er (in): S) Length (ft) (ft bgs): WELL VOI Gallons per Column of v Volume of v Volume of v ONE EQUI ACTUAL V	J123-L LUME CALCU foot of annular water or length water in AS (ga foot of casing	JATION r space (from character) (from character) (gal) LUME [EV.GED (gal)	nichever in the state on back of the state o	on back) s less)	D: ΓW: Column: ntake (ft bg	36	310 1,80 99 ,81 ,47 73 81 ,11 163 ,81	
Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
1210	Elapsed	(mL/min)	Volume (L)	(ft toc)	pH	(µS/cm)	(C) ·	(NTU)	(mV)	(mg/L)
1315	5	100		36,99	761	7100	16:65	38.00		0.11
1370	10	100			759	7160	15.45	1771		0.00
1275	15	100			7.107	7,00	15 50	906		0.00
1330	20	1077	1		7.1.2	7.030	1646	7.02		0.07
137	25	100	1.50	37.20	76	1074É	16.70	7.09		0.06
1			2.5	01:20	4		1	n . /		0.00
			1			1	124	X		
			0			7	4.0	W.		
							0	t and		
							4,45.			
								5 Y		
			=							
20		50n =	30psi					O SIST S		
Sample	Date/Time er's signature er's signatu	e/date:	102009 0 PAU	Samo	e ID/TR	#: <u>15°</u> 23 007	2000	<u>40</u> 0 2	009	

								_ ^	-			
FORT	WINGA	TE DEPOT	ACTIVITY			Well Nu	ımber:		1W-	11		
LOW	FLOW W	ELL SAMI	PLING DAT	A FORM	I	Start Da	ate:	10	-20.	-09		
			0			Start Ti	ime:	0	920	7		
Well Ca	asing Diam	eter (in):	2			Well TI	):	80	2.52	, ,		
	ole Diamete		8			Well D7		64	,61			
Annulai	Space (AS	S) Length (ft):	27			Water C	Column:	15	.91	į.		
Screene	d Interval (		55-4			Pump In	ntake (ft bg	gs): <b>8</b> 60	,52	<u> </u>		
			LUME CALCU					^	73			
			foot of annula vater or length					$=$ $\frac{U}{X}$	/0/	ě		
			vater of length vater in AS (ga		nenever i	15 1055)		= //	.61	*		
			foot of casing		t on back	()		= 0,1	63	•		
		Column of v						X 15	,91			
			water in casing	the state of the s	71 / A.C.			= 2.	59			
			VALENT VOI OLUME PUR		10 -4 CO 10	casing, gai	,	= 77	6	į.		
Method	of Purging		104)	flou						1		
Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Tamp	Turbidity	Redox	DO		
THIC	Elapsed	(mL/min)	Volume (L)	(ft toc)	рН	(μS/cm)	Temp. (C)	(NTU)	(mV)	(mg/L)		
0940	0	40	0	66.70	8.35	2200	17.25	275.9		5.99		
0945	, 5	40	0.2	66:72	8,08	2230	16.79	277,5		4.20		
0950	10	40	6.4	66.76	27.99	2240	16.20	236.9		3.00		
0965	15	40	0.6	66,70	7.97	1240	15,34	190.6		2.52		
1000	20	40	0,8	66.72	7.95	2230	15.05	162.4		2.27		
1005	25	40	1.0	66.72	7.94	2220	15,8"	7132.1		221		
1010	30	40	1.2	66.72	7,94	2220	16,28	109.0	Ų1 į	2.19		
1015	35	40	1,4	66.72	7.94	2220	16.33	91.14		2.11		
1020	40	40	1.6	66.72	7.95	2200	16.81	76.59		2.04		
1025	45	40	1,8	66.72	7.95	2220	17.00	67.39		2.02		
	50	40	2.0	66.72	7.90	2210	17.06	58.78		2.18		
	.52	40	2,08			4		(51.77		2.37		
			-					7				
1037	57	40	2,28	66 1	7.10	200	10.0	49.05		2.62		
					0							
1315		ting	O was	er	Keus	0=	66.7	2				
		, , , ,										
	l	l	I	1								
Purging	Purging Field Notes:											
Pro	Pross = 46ps, purgo = 7 Sec, rech = 55 Sec, + Alow =											
460	40 M/ Min Sample Date/Time: 10-20-09 /160 Sample ID/TR #: TMW/102009											
10	MIIN	115-21	10 110	0 -	III mr	" TM	10111	2000				
Sample	Date/Time	1000	-07 119	○ Sampl	e ID/TR	#: / 101	10/11/	32007				

Sample Date/Time: 10-20-09 1160 Sample ID/TR #: TMW11 10 2009
Sampler's signature/date: Trant Lollo 18-20-09
Reviewer's signature/date: 4444444 10 2369

FORT WINGATE DEPOT ACTIVITY LOW FLOW WELL SAMPLING DATA FORM  Well Number:    TMW   3												
Well Casing Diameter (in):  Bore Hole Diamet												
			10W		)					-	W	
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)		
1025	0	70	0	60.10	7.62	2340	13.32	1.61		4.10		
1030	5	70	0.35	60,10	7,53	2330	13.65	1 - 2		2.83		
1035	10	70	0.70	60.11	7.50	2330	13.93	0.54		2.29		
1040	15	70	1.05	60.11	7,50	2330	14.03	0,41		2.10		
1045	20	70	1.4	60.11	7.50	2330	14.21	0.15		1.91		
1050	25	70	1.75	60,11	7.51	2330	14.36	0.35		1.77		
1055	30	70	2.1	60.11	7.51	2330	14.40	0.41		1.72		
1100	35	70	2.45	60.11	7,51	2330	14.47	0,42				
1105	40	70	2.8	60.11	7.51	2350	14.44	0.11		1.69		
1107	42	70	2.94	60.11	7,51	2340	14.42	0.33		1.61		
1109	44	70	3,08	60.11	7,51	2350	14,40	5	11	1.62		
1215		0		60.11								
1240				60:11	=	final.	ivater	leve	<u></u>			
Purging Field Notes: Begen purging at 1017. Purgo = 7500, Noch = 30500, flow rate = 70 ml/min press = 38-46 psi. Vary clear water												
Sample	Date/Time		9 1139	Sampl	e ID/TR	#: TMU	0-22					

FORT WINGATE DEPOT ACTIVITY	Well Number:	TMW-	14A
LOW FLOW WELL SAMPLING DATA FORM	Start Date:	10-27	1-07
0	Start Time:	0820	
Well Casing Diameter (in):	Well TD:	110.1	
Bore Hole Diameter (in):	Well DTW:	62.41	with ZIST
Annular Space (AS) Length (ft):/7	Water Column:	49,69	UNCOCKE
Screened Interval (ft bgs): 94,25 - 109,25	Pump Intake (ft bgs)	: 98,7	
WELL VOLUME CALCUATION			
Gallons per foot of annular space (from cha	art on back)	= 0.73	
Column of water or length of AS (whicheve	er is less)	x 17	
Volume of water in AS (gal)		= 12.41	
Gallons per foot of casing (from chart on ba	ack)	= 0,163	
Column of water		x 49.69	
Volume of water in casing (gal)		= 8.10	
ONE EQUIVALENT VOLUME [EV] (AS	+ casing, gal)	= 20,51	
ACTUAL VOLUME PURGED (gal)	3 20 0072007000179	= /	
Method of Purging: low flow			

Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
-	Elapsed	(mL/min)	Volume (L)	(ft toc)	pН	(µS/cm)	(C)	(NTU)	(mV)	(mg/L)
0.855	0	60	0	63.44	8.14	1880	11.37	10.14		2.49
0900	5	50	0.3	63,72	8.43	1880	10.81	9.57		1.94
0905	10	50	0.55	63.72	8.49	1870	10,90	12.68		1.76
0910	15	50	0.8	63.72	8,53	1870	11.07	9.11		1.56
0915	20	50	1.05	63,76	8,61	1870	11.32	13.17		1.39
0920	25	50	1.3	63.72	8,68	1870	11.18	8.03		1.28
0925	30	50	1,55	63.75	18.72	1880	11.17	4,87		1.19
0930	35	50	1.8	63.72	8.74	1820	11:29	3,22		
0935	40	50	2.05	63.72	8,75	1280	11.39	6.46		1.08
0940	45	50	2.3	63.72	8.77	1980	11:41	6,37		1.01
0945	50	50	2,55	63.72	8.78	1890	11.35	1.86		0.78
0950	55	50	2.8	63.72	8.78	1890	11.37	4.79		0.92
0955	60	50	3.05	63.72	8.77	1890	11.51	3.01		0.86
1000	65	50	3,3	63.72	8.78	1890	11.85	2.80		0.84
1002	67	50	3,4	63.72	8,79	1890	12.17	1,18		0.82
1005	70	50	3.55	6372	8,78	1890	12.54	1.90		0,23

Purging Field Notes: Very clear mater w strong Sulfur odar. Did not dock 21ST and 0900 hrs, by which time drawdown = 631, Upon docking 21ST at 0900, drawdown stable throughout parameter measurements.

Pressure = 55 psi reck = 60 soc, pungo = 5 soc, flow = 50 ml/min

Sample Date/Time: 10-27-09 1815 Sample ID/TR #: 1 mw14A102009 Fw01102009 =

Sampler's signature/date: 10/28/09 blind dien 
Reviewer's signature/date: 10/28/09 time 1500 hrs

Final water level = 63.79 at 1550 hrs

FORT WINGATE DEPOT ACTIVITY	Well Number:	JMW15
LOW FLOW WELL SAMPLING DATA FORM	Start Date:	10-26-09
	Start Time:	0845
Well Casing Diameter (in):	Well TD:	76.65
Bore Hole Diameter (in):	Well DTW:	64.33
Annular Space (AS) Length (ft):/7	Water Column:	12.32
Screened Interval (ft bgs): 56-7/	Pump Intake (ft bgs):	74.65
WELL VOLUME CALCUATION		A M 7
Gallons per foot of annular space (from characteristics)	art on back)	= 0,75
Column of water or length of AS (whichev	er is less)	12.32
Volume of water in AS (gal)	820	= 8,79
Gallons per foot of casing (from chart on b	ack)	= 0,163
Column of water	2	12.32
Volume of water in casing (gal)	= =	= 2.01
ONE EQUIVALENT VOLUME [EV] (AS	S + casing, gal)	= 11,00
ACTUAL VOLUME PURGED (gal)	=	= 0.75
Method of Purging: 10w 10w		
Time Minutes Flow Rate Cumulative DTW		

Time	Minutes	Flow Rate	Cumulative	DTW		Cond.	Temp.	Turbidity	Redox	DO
	Elapsed	(mL/min)	Volume (L)	(ft toc)	рН	(µS/cm)	(C)	(NTU)	(mV)	(mg/L)
0920	0	120	0	64,56	7.78	2290	12,55	4.27		1.88
0975	5	60	0.6	64,51	7,79	2290	12.05	2.70		1.74
0930	10	60	0.9	64.46	7.65	2300	12.23	1.28		1.96
093	5 15	60	1.2	64.42	7.60	2300	12.39	2.94		1.92
0940	20	60	1.5			2300				1.80
0945	25	60	1.8	64,41	7,59	2300	12.61	1,49		_
0950	30	60	2.1	64.41	7.60	2300	12.77	1.57		1,86
0955	35	60	2.4	64.41	7.61	2300	13.01	1.35		1,84
1000	40	60	2.7	64,41	7.61	2300	13.07	137		1.85
1300	>			6441	1	0				
1445		W.		64.41	= 1	final	was	er/o	vel	
			-							

Purging Field Notes: Began purging at 0905. Initial sattings of P = 55 Asi, rech = 30 sec, c pungo = 12 sec resulted in flow of 7120ml/men and gathing sample ID/TR #: TMW15/03009 - primary a QC art follo 10/34/09 FW Q5/03009 - blind dup 1400his Reviewer's signature/date: recharge to 40 Sec. Flow was 60-70 milimus.

		Well Number: Start Date: Start Time:	10/15/09 1006	
Well Casing Diameter (in):	2	Well TD:	142.2	
Bore Hole Diameter (in):	8	Well DTW:	55.40	
Annular Space (AS) Length (ft):	17	Water Column:	86.8	
Screened Interval (ft bgs): /5	127-2-142.2	Pump Intake (ft bgs)	140,2	

#### WELL VOLUME CALCUATION

Gallons per foot of annular space (from chart on back)	=	ONH832,73
Column of water or length of AS (whichever is less)	Χ	15
Volume of water in AS (gal)	=	10.92
Gallons per foot of casing (from chart on back)	=	.1632
Column of water	X	86.8
Volume of water in casing (gal)	=	14.19
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	=	25.09
Number of EV to be purged	X	'3
TOTAL VOLUME TO BE PURGED (gal)	=	75,27
ACTUAL VOLUME PURGED (gal)	=	20.0

Method of Purging: BENNETT PUMP

Field Parameters					Reading				
Time	1006	1009	1010	1016	1022	1028	1032	1036	1042 Final
Volume (gal)	INITIAL	2	4	7	10	13	15	17	Sample 20
Flow Rate (gpm)									N/A
DTW (ft toc)	55.40								
рН	7.65	8-11	8,28	8.39	8.50	8,49	8.57	8.65	8.67
Conductivity (ųS/cm)		1830	1818	1810	1740	1530	1776	1850	2170
Temperature (°C)	12,82	12.85	12.80	12.78	12.76	12,75	12.79	12.83	12.92
Turbidity (NTU)	114	35.2	22.4	31.0	68.6	146	1062	843	568
Eh/Redox (mV)									
DO (mg/L)	5.91	2.45	1.83	1.80	1.33	1.25	1.27	1.18	1.01

Purging F	ield Notes:		
0			

PUMPED WELL DRY, SAMPLED AFTER RECHARGE.

	/ /			T 1: 10
Sample Date/Time:	10/20/09	1200	Sample ID/TR #:	TMW161020

Well Number: Start Date: Start Time: Well TD: Well Casing Diameter (in): Well DTW: Bore Hole Diameter (in): Water Column: Annular Space (AS) Length (ft): Pump Intake (ft bgs) Screened Interval (ft bgs): WELL VOLUME CALCUATION Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) X = Volume of water in AS (gal) Gallons per foot of casing (from chart on back) = X Column of water Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) X Number of EV to be purged 40 TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal) Method of Purging:

Field Parameters		Miles and the second			Reading				
Time	1400	1408	1413	14215	1426	1433	1440	1445	Final
Volume (gal)	INITIAL	3	5	8	10	13	16	17.5	Sample
Flow Rate (gpm)									N/A
DTW (ft toc)	54.36							157.16	
pH	10.99	10.96	10.98	10,95	10.93	10.95	11.15		
Conductivity (ųS/cm)	3100	30 20	2990	2990 Awy	23010	BURG	3040		
Temperature (°C)	13.21	13.48	13,20	13.10	13,12	13.12	13.13		
Turbidity (NTU)	660	45,5	15,9	10.7	13.0	20.2	113.7		
Eh/Redox (mV)		-							
DO (mg/L)	0.39	0.34	0.29	0,27	0,20	0,21	0.18		

PURGED WELL DRY, ALLOWED TO RECHARGE THEN SAMPLY PORGED AN ADDITIONAL 3 GALS BEFORE SAMPLING.	Purging Field No	tes:							
FORES DI ADDITIONALLY ZIGHIS REFEREN SAMPLING.	DIRIGED	1118	LL DRY	ALLO	DWED	TO	RECHARGE	THEN	SAMPLED
TIKINE IN ALL MINIMINES STATES INCIDENT	FOR OF D	nul	ADDITIO	AIAL	7/	HALS	REFORE	SAM PL	1 NG.

Sample Date/Time:

Sampler's signature/date: Reviewer's signature/date: 10/23/09 1040 Fustur 4 Hebband

Sample ID/TR #:

TMW 18102009

Method of Purging:

Well Number: Start Date: Start Time: Well Casing Diameter (in): Well TD: Bore Hole Diameter (in): Well DTW: Annular Space (AS) Length (ft): Water Column: Screened Interval (ft bgs): 15 Pump Intake (ft bgs) WELL VOLUME CALCUATION Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) X Volume of water in AS (gal) Gallons per foot of casing (from chart on back) Column of water Χ Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) Number of EV to be purged X TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal)

BENNETT PUMP

Field Parameters					Reading				
Time	/113	1117	1120	1124	1129	1133	11.38	1145	\ Final /
Volume (gal)	INITIAL	3	5	7	10	13	15	18	Sample
Flow Rate (gpm)				·	,				N/A
DTW (ft toc)	42.33				តា				X
рН	7.92	8.17	8-19	8.23	8,27	8,27	8,26	8.24	$\wedge$
Conductivity (ųS/cm)	2920	2900	2870	2840	2620		2490	2450	
Temperature (°C)	12.63	12.82	12.79	12.77	12.72	12.68	12.71	12.74	
Turbidity (NTU)	58.2	145	155	284	544	728	787	1100+	
Eh/Redox (mV)									1
DO (mg/L)	4.17	1.56	1.25	1.05	1.34	1.05	0.88	0.86	,

#### **Purging Field Notes:**

PURUED WELL DRY,	ALLOW TO	RECHARO	E THEN COLLECTED
			BEFORE COLLECTING
SAMPLE ON 10/23.			
, -			

Samp	le l	Date	e/Tir	ne:
------	------	------	-------	-----

Sampler's signature/date:

Reviewer's signature/date:

10/23/09 0900 Fredrick S. Belland Mr. A. M. A. 10/22/09

Sample ID/TR #:

TMW19102009

WELL SAMPLIN	G DATA F	ORM					
					Well Number:	TMW	9
					Start Date: Start Time:	10/15/	3
Well Casing Diameter (in): Bore Hole Diameter (in): Annular Space (AS) Len Screened Interval (ft bgs	gth (ft):				Well TD; Well DTW: Water Column: Pump Intake (ft bgs)		
WELL VOLUME CAL	CUATION						
Column of v Volume of v ONE EQUIV Number of E	vater or leng vater in AS ( foot of casin vater vater in casin /ALENT VOI EV to be pur LUME TO BE DLUME PUF	th of AS (whigal)  ng (from chain  ng (gal)  LUME [EV] ( ged  E PURGED	rt on back) (AS + casing	ess)	= X = = X = = X = = = X = = = = = = = =		
Field Parameters					Reading		
Time	1150	1156	1200	1206			Final
Volume (gal)	20	22	24	26			Sample
Flow Rate (gpm)							N/A
DTW (ft toc)							
рН	8,27	8.31	8.34	8.55		38	
Conductivity (ųS/cm)	2480						
Temperature (°C)	12.75	7	12.76	- /			
Turbidity (NTU)	968	979	709	1315			
Eh/Redox (mV)							
DO (mg/L)	0.93	0.88	0.93	0.82			
Purging Field Notes:							-
Sample Date/Time: Sampler's signature/ Reviewer's signature		10/23/09 Justini	9 0980 9. H	O Charles	Sample	e ID/TR #:	

FORT WINGATE DEPOT ACTIVITY LOW FLOW WELL SAMPLING DATA FORM	Well Number:	TMW 21
20 W 120 W WELL SAMI LING DATA FORM	Start Date:	10-24-09
and the same of th	Start Time:	0855
Well Casing Diameter (in):	Well TD:	61,31
Bore Hole Diameter (in):	Well DTW:	50.49
Annular Space (AS) Length (ft):	Water Column:	10.82
Screened Interval (ft bgs): 48-58	Pump Intake (ft bgs	1: 50 98
WELL VOLUME CALCUATION	1 , 5	
Gallons per foot of annular space (from cha	art on back)	= 0,73
Column of water or length of AS (whichever	er is less)	x 10.82
Volume of water in AS (gal)		= 7.90
Gallons per foot of casing (from chart on ba	ack)	= 0.163
Column of water		x 10.82
Volume of water in casing (gal)		= 1.76
ONE EQUIVALENT VOLUME [EV] (AS	+ casing, gal)	= 9.66
ACTUAL VOLUME PURGED (gal)	0.0 /	= 2.4
Method of Purging:		

Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	n.II	Cond.	Temp.	Turbidity	Redox	DO
0925	0	100	O C		pH	(μS/cm)	(C)	97.59	(mV)	(mg/L)
BYL	15	100				2640	12.81	,		2.55
0740	15	100	p.5			2640	13.00	71.62		1.82
0945	20	100	2.0	51.59	7.69	2640	13.16	55.26		1.76
0950	25	100	2.5	51.62	7.70		13.25	50,97	7	1.62
0956	30	100	3.0	51.68	7.70	2640	13.21	47.81		
1000	35	100	3.5	51,73	7.70	2640	13.10	48,50		1.43
1005	40	100	4.0	5478	7.70	2640	13,26	50.36		1.31
1010	45	100	4,5	51,83	7.71	2640	13,36	61.13		1.18
1015	50	100	5.0	51.87	7.71	2640	13.64	72.58		1,10
1020	55	100	5.5.	51.93	7.71	2640	13.87	96.12		1,02
1025	60	100	6.0	51.95	7.7/	2640	13.92	111,5		0.96
1030	65	100	6.5	51.98	7.72	2640	13.92	118.3		0.94
1035	70	100	7.0	51,99	7.71	2640	14,13	124.0		0.88
1040	75	100	7.5	52.01	7.71	2640	14,12	126.7		0.87
1045	80	100	8.0	52.01	1200 2000	2640	/	- 0		0.84
1050	85	100	8.5	52.01	7.71	2640				0.82

Purging Field Notes: Boger Purging at 0910, With in the press of 30/5, 10

Hen. Thereard P to 40 ps + then 50 ps be fore flow appeared. Le chead

P to 30 ps + flow continued for awa from lock > 30 sec. Purgo = 7 sec

Sample Date/Time: 10 29-09 1190 Sample ID/TR #: TMW21102009 Flow = 100 ml/him

Sampler's signature/date:

Reviewer's signature/date:

Matthetato 10 2409

PS 20f2

FORT	WINGA	TE DEPOT	ACTIVITY	7		Well N	umber:	7	MW	21	
LOW	FLOW W	VELL SAM	PLING DAT	A FORM	А	Start D			115-74-09		
							Start Time: 0865			3	
Well C	asing Diam	eter (in):				Well T			Co		
	ole Diamet					Well D				-	
		S) Length (ft):					Column:	4		-	
	ed Interval (						ntake (ft bg	·		_	
			LUME CALCI	UATION		1 dilip 1	inune (11 og			-	
			foot of annula					=		0	
			water or length		hichever	is less)		X		$\Sigma$	20
			water in AS (ga	( A)				=		- ^	
			foot of casing	(from cha	rt on bac	k)		=		- 13	23
		Column of v	vater vater in casing	(I)				X		_ /	, V
			VALENT VO		VICAS	oneina anl	`	=			/
			OLUME PUR			casing, gai	,			- '	
1ethod	of Purging			(Bu)	-						
				I		T -			,	-	
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity	Redox	DO (ma/L)	
2	87	100						(NTU)	(mV)	(mg/L)	
24	21	100	8,7	5201	1.11	2640	14,28			0.83	
120				52.01							
126				-	ļ ,	2					
150				52.01	= 4	nal in	10 kg	loves			
					1		SE P 0	Total Control			
						ļ					
						13					
-											
-							- 2			l	
arging	Field Note	s: With in	4		*						
-000 HTM											
ample !	Date/Time:			Sample	e ID/TR	#:					
	's signature										
1000	120							70			
eviewe	er's signatur	re/date:	-								

Well Casing Diameter		Well Number: Start Date: Start Time: Well TD:	10-1	3-09
Bore Hole Diameter (in		Well DTW:	78.7	7
Annular Space (AS) Le Screened Interval (ft bo		Water Column: Pump Intake (ft bgs)	No Fum	
WELL VOLUME CA	LCUATION			
Gallons pe	r foot of annular space (from chart on back)	= _ O,	73	
Column of	water or length of AS (whichever is less)	x/	2	
Volume of	water in AS (gal)	= 8.	76	
Gallons pe	r foot of casing (from chart on back)	= 0./	63	
Column of	water	x 16,	42	
Volume of	water in casing (gal)	= 2.	68	
ONE EQUI	VALENT VOLUME [EV] (AS + casing, gal)	= //.	44	
	EV to be purged	X	3	
TOTAL VO	LUME TO BE PURGED (gal)	= 34,	32	
ACTUAL V	OLUME PURGED (gal)	= -	4	
Method of	Purging: bailer			
Field Parameters		Reading		
Time	1630 1640 1650			Final
Volume (gal)	0.75 2.5 4			Sample
Flow Rate (gpm)				N/A

Field Parameters					Reading			
Time	1630	1640	1650					Final
Volume (gal)	0.75	2.5	4					Sample
Flow Rate (gpm)	):		· .					N/A
DTW (ft toc)	54.74	57.70	61.40					
рН	7.52	7.72	7.77					
Conductivity (ųS/cm)	3480	3590	3490			139		
Temperature (°C)	12.74	12.71	12.83	ga nastyri	200			
Turbidity (NTU)	340.6	621,9	7/000					
Eh/Redox (mV)								
DO (mg/L)	0.59	0,28	0.24				10	

0,01	0.00			
Purging Field Notes:	- at beginning	of bailing	s a ko	care
Drogressively 1	Tou dies Baile	d 6 301	Hotal	bolore
well was	dry	0 '		
	0 - 2 - 00	coled Sample ID/ 0-13-09	TD #-	
Sample Date/Time:	10 de acon de Colli	Sample ID/		
Sampler's signature/date:	Frant Roll 1	0-13-09		
Reviewer's signature/date:	MAMMAT 10/23/09			

WELL SAMPLII	NG DATA	FORM							
Well Casing Diameter (Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bg	): ngth (ft):		2 8 12 62	- - -	Well Nur Start Dat Start Tim Well TD: Well DTV Water Co Pump Inte	te: ne: V:	16.	W 22 -19-0 815 .23 94 29	9
WELL VOLUME CA	CUATION	N							
Column of Volume of Gallons per Column of Volume of Volume of States	water or len water in AS r foot of cas water water in cas VALENT VC EV to be pu LUME TO E OLUME PU	gth of AS (v (gal) ing (from ch sing (gal) DLUME [EV] irged BE PURGED RGED (gal)	, -	less)	= X = X = X = X	Viously	Durga	d and	Arra
Field Parameters					Reading		, 0		meas.
Time				T			T		Final
Volume (gal)									Sample
Flow Rate (gpm)									N/A
DTW (ft toc)									
рН									
Conductivity (ųS/cm)									
Temperature (°C)									
Turbidity (NTU)									
Eh/Redox (mV)									
DO (mg/L)									
Purging Field Notes:  Collecte  were mea	Sures Samp	Il se I previling.	for	Sam	ples Vo p	W 9 Urgen	baile g per	1. Porther	ranet
Sample Date/Time: Sampler's signature/c		10-19	of cant K	090	<u>)</u> 18-19 -	Sample II	D/TR #:	Mw2	210201

Well Casing Diameter (in): Bore Hole Diameter (in): Annular Space (AS) Length (ft): Screened Interval (ft bgs):  WELL VOLUME CALCUATION						Well Number: Start Date: Start Time:  Well TD: Well DTW: Water Column: Pump Intake (ft bgs)  Start Date:  Start Date: Start Da			-09
Gallons per foot of annular space (from chart on back) Column of water or length of AS (whichever is less) Volume of water in AS (gal) Gallons per foot of casing (from chart on back) Column of water Volume of water in casing (gal) ONE EQUIVALENT VOLUME [EV] (AS + casing, gal) Number of EV to be purged TOTAL VOLUME TO BE PURGED (gal) ACTUAL VOLUME PURGED (gal) Method of Purging:					= X = = X = X = X = = X	2, 0,1 13, 2,0	73 2 76 63 92 7 03 3	-	
Field Parameters					Reading			1	
Time	1535	1545	1555						Final
Volume (gal)	0.5	2.5	3,5						Sample
Flow Rate (gpm)									N/A
DTW (ft toc)	49.02	54.80	57,34						
рН	7.56	7.74	7.79						
Conductivity (ųS/cm)	3230	3230	3250						
Temperature (°C)	13.40	13,09	13.05		10				
Turbidity (NTU)	825.3	>1000	110,6						
Eh/Redox (mV)	ý.								
DO (mg/L)	0.84	0.57	0.40				, P		
Purging Field Notes:  UCTUMA  OF H.S.g.	ddy	)45ge	wate	r, B	paile c	l nest	dry.	hson s	enova
Sample Date/Time: Sampler's signature/o Reviewer's signature/		ND SGA Dri MAN	at Ko	0/1/eck	d 13-09	Sample ID	/TR #:		

Column of Volume of Gallons pe Column of Volume of ONE EQUI	ength (ft): gs):  LCUATION  r foot of ann water or len water in AS r foot of cas water water in cas	nular space ( gth of AS (w (gal) ing (from ch sing (gal) DLUME [EV]	whichever is	less)	Well Numb Start Date: Start Time Well TD: Well DTW: Water Colu Pump Intak	: : umn:	10-1	2-23 19-09 50 72 78	
		RGED (gal)	(gal)		=	8		-: -:	
Method of	Purging :	bai	ler					-	
Field Parameters					Reading				
Time									Final
Volume (gal)									Sample
Flow Rate (gpm)									N/A
DTW (ft toc)									
рН									
Conductivity (ųS/cm)									
Temperature (°C)									
Turbidity (NTU)									
Eh/Redox (mV)								*	
DO (mg/L)									
Purging Field Notes:  Collected  Masured  Water /eve  Sample Date/Time:  Sampler's signature/	previo	Set 07 usly, 45,70	No pe	ples de la	7)	Sample ID	Par Jery Very	Mw 23	sampling water
Reviewer's signature	/date:	_111	MANOS	A-19	23/09				

FORT WINGATE DEPOT ACTIVITY LOW FLOW WELL SAMPLING DATA FORM	Well Number: Start Date:	10-19-09
0	Start Time:	0925
Well Casing Diameter (in):	Well TD:	57,41
Bore Hole Diameter (in):	Well DTW:	39.51
Annular Space (AS) Length (ft):	Water Column:	17.90
Screened Interval (ft bgs): 44-54	Pump Intake (ft bgs):	55.41
WELL VOLUME CALCUATION		0.172
Gallons per foot of annular space (from cha	art on back) =	0.13
Column of water or length of AS (whichever	er is less) X	12
Volume of water in AS (gal)	=	8.76
Gallons per foot of casing (from chart on b	ack) =	0.163
Column of water	X	17.90
Volume of water in casing (gal)	=	2.92
<ul> <li>ONE EQUIVALENT VOLUME [EV] (AS</li> </ul>	( + casing, gal) =	11.68
ACTUAL VOLUME PURGED (SAI)	=	0.3
Method of Purging: 1000 +1000		

Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1000	0	30	0	40.34	7.88	2860	19.21	6.03		3.73
1005	5	25	0.15	46.37	7.81	2070	19.16	3.39		2.6
1010	10	30	0.275	40,41	7.79	7280	18.77	2.10		2.4
1015	15	25	0.425	40,41	7.79	2850	18.66	2,82		2.31
1020	20	25	0.55	40.41	7.79	3240	1900	1,78		2.24
1025	25	25	0.675	46.38	7,80	3840	19.83	1.77		2.25
1030	30	25	0.8	40.38	7.80	3840	20.07	1.53		2.17
1035	35	25	0.925	40.41	7.81	3840	19.80	1.42		2.14
1040	40	25	1.05	40.40			20.01.	233		2.14
1045	45	25	1.175	40.40	7.83	3820	20,15	1.75		2.13
1050	50	25	1.3	40,40	7.84	3830	19.92	1.88		2.11
1050	152	25	1.35	40.40	7.84	3840	19.97			2.12
							,			
1500	Fine	al wa	ter le	uel	- 4	0.5	5			

Purging Field Notes: Took at least 10 min to fill flow thru cell.

Began purging around 0940, Very clear water. In that purget

settings arew water love down too much. Adjusted rech to

Sample Date/Time: 10-19-09 120g Sample ID/TR#: TMW24/122009 75 Sac, purge

Sampler's signature/date:

Reviewer's signature/date:

Prant 10/23/09 puss to 30pc.

Tawdown then Stabilized during parameter measuraments

			ACTIVITY			Well Nu	ımber:	Th	WZ	ó
LOW	FLOW W	ELL SAMI	PLING DAT	A FORM	1	Start Da	ate:	17	04	2009
Bore He	asing Diameter Space (AS	er (in): S) Length (ft): ft bgs): WELL VOL Gallons per Column of v Volume of v Column of v Volume of v ONE EQUI	LUME CALCU foot of annular water or length water in AS (ga foot of casing	DATION r space (from character) (gal) LUME [EVALUME [EVALUME]	nichever i rt on back V] (AS +	on back) s less)	D: TW: folumn: stake (ft bg	2 ( 3 = 0; X 17 = 8;	246 8.24 6.66 1.58 75 63 58 15 91	
Method	of Purging	;:	7	lou	v flor	N				
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
55	0	13D	0	26.66	8.00	3580	15.12	93.24		2:17
258	3	130	.390	26.66	7.96	3610	14.70	58.42		1.40
301	6	130	.780	1666	7.96	340	14.62	64.19		1.30
04	9	130	1.170	2666	7.95	340	14-55	54.44		1561
307	12	130	230156	0 26.66	7.96	3600	14.65	59.94		1.03
130	15	130	1.950	26.66	7.96	35900	14.66	50.34	,	1.04
	15	130	2.340	76.66	7.96	35960	14.67	39.68		1.01
Purging	g Field Note		25°	hechan	ge = 2	05001	Pur	ye = 5 s	ec	
Sample	Date/Time er's signatur ver's signatu			Samp	le ID/TR	#: TM	W 26	10200 2009	ſ	

FORT WINGATE DEPOT ACTIVITY	Well Number:	TMW 27
LOW FLOW WELL SAMPLING DATA FORM	Start Date:	24 OCT 2009
	Start Time:	1110
Well Casing Diameter (in):	Well TD:	73.26
Bore Hole Diameter (in):	Well DTW:	30-602990
Annular Space (AS) Length (ft):	Water Column:	43.36
Screened Interval (ft bgs):	Pump Intake (ft bgs)	7214
WELL VOLUME CALCUATION		
Gallons per foot of annular space (from chart	on back)	= 6173
Column of water or length of AS (whichever i	s less)	X 12.0
Volume of water in AS (gal)		= 8.76
Gallons per foot of casing (from chart on back	)	= 0.163
Column of water		X 43.36
Volume of water in casing (gal)		= 7.05
ONE EQUIVALENT VOLUME [EV] (AS +	casing, gal)	= 16.02
ACTUAL VOLUME PURGED (gal)	A .	= 275
Method of Purging:	flow	

										-
Time	Minutes Elapsed	Flow Rate (mL/min)	Cumulative Volume (L)	DTW (ft toc)	рН	Cond. (µS/cm)	Temp.	Turbidity (NTU)	Redox (mV)	DO (mg/L)
1110	0	140		29.90	7.58	147,6	13,69	1.19		1.50
1113	3	140		29.90	7.63	147.9	14,04	248		144
1116	6	140		2990	770	148.7	14.00	2.00		1.34
1119	9	140		29.90	7.72	149.2	-13.93	1.77		130
1122	12	140		2990	7.73	149.3	1398	6.49		1.24
1125	15	140		2990	7.74	151,0	13.98	6.17		1,16
1129	18	140		29.90	7.76	151.0	13.94	4.13		1.13
1131	21	140		29.90	7.76	152,0	13.98	6.22		1.11
1134	24	140	3.36	29.90	7.77	153.0	407	3.10		1.10
						1				
						15	30			
							# DV			

Purging Field Notes:		
Dumped from	28.50 to 29.90 pt. 2004	6 on 35 psc .
2 (40 WC/min	counted Stephenation, San	upled at 200ml/mm
Sample Date/Time: 1130	24 CCT 2009 Sample ID/TR #: TUW 27107009	and main terned
Sampler's signature/date:	applagner 26 oct 2009	and main timed war levely 29.90
Reviewer's signature/date:	MMORT 10/26/05	64

			ACTIVITY			Well No	umber:	TV	11W2	8
LOW	FLOW V	VELL SAM	PLING DAT	A FORM	Л	Start D	ate:	19	OCT	200
Bore H Annula	lasing Diam lole Diamet or Space (Al ed Interval	er (in): S) Length (ft) (ft bgs): WELL VOI	2 8 12 10 LUME CALCU		om chart	: - as root	D: ΓW:	$\begin{array}{r} 14 \\ 5 \\ 18 \\ 3 \\ 3 \\ \end{array}$	540 0.3 .83 1.47 7.3	-
Method	l of Purging	Volume of v Gallons per Column of v Volume of v ONE EQUI ACTUAL V	water or length water in AS (ga foot of casing water water in casing VALENT VOI OLUME PUR	al) (from cha (gal) LUME [E <sup>V</sup>	rt on back	k)		X = 8 = C X = 12 = 12 = C	176 1.163 1.47 5.13 3.88	
Time	Minutes Flow Rate Cumulative DTW Cond. Temp. Turb						Turbidity (NTU)	Redox (mV)	DO (mg/L)	
1540	D	60	0	18.83	7.40	151.0	18.10	41.81	(III v )	0.12
1543	3	60	,180	18.90	7.47	154.0	17.87	37.10		0,09
1546	6	60	.360	18.97	7.59	158.0	17.47	26.40		0.09
1549	9	60	,540	19.02	7.62	159.0	17.36	32.75		0.09
1552	12	60	,720	19.06	7.6A	159.0	17.35	25,31		0.08
1555	15	60	.880	19.10	7.65	(159.D)	17.38	25.80		0.08
			1 1	teri	nin	v mux		159t		
Purging	Field Note	s: 3011	30 p	Su :	= 60	ml/	'uur	<u> </u>		
Sample	Date/Time. r's signature	e/date:	9 OCT 2000 SDU MMM							

WILL SAME LING BATA I STIM	Well Number: TMW-29	
	Start Date: 10-14-09	
a *	Start Time: 0920	
Well Casing Diameter (in):	Well TD: 66.65	
Bore Hole Diameter (in):	Well DTW: 57,22	
Annular Space (AS) Length (ft):	Water Column: 4,43	
Screened Interval (ft bgs): 49-59	Pump Intake (ft bgs)	
WELL VOLUME CALCUATION	<b>.</b>	
	A 72	
Gallons per foot of annular space (from chart on back)	= 0,73	
Column of water or length of AS (whichever is less)	x 4.43	

Gallons per foot of annular space (from chart on back)	= 1	0,73
Column of water or length of AS (whichever is less)	X	4.43
Volume of water in AS (gal)	=	3,23
Gallons per foot of casing (from chart on back)	=	0.163
Column of water	X	4.43
Volume of water in casing (gal)	=	0.72
ONE EQUIVALENT VOLUME [EV] (AS + casing, gal)	=:	3.95
Number of EV to be purged	X	3
TOTAL VOLUME TO BE PURGED (gal)	=	11.85
ACTUAL VOLUME PURGED (gal)	=	2
Method of Purging: baler	0	

Field Parameters	Reading								
Time	0930	0935	0935						Final
Volume (gal)	0.5	1	2						Sample
Flow Rate (gpm)									N/A
DTW (ft toc)	59.43	59.91	60.08						
pH	7.78	7.80	7.98						
Conductivity (ųS/cm)	2570	2550	2520						
Temperature (°C)	12.85	12.66	12.76						
Turbidity (NTU)	>1000	865.1	705.4						
Eh/Redox (mV)									
DO (mg/L)	6.84	4.33	4.41						

DO (mg/L)	5.84 4.33 4.4)
Purging Field Notes:	
	AT THE PARTY OF TH
Sample Date/Time:	no Sample Collected Sample ID/TR#:
Sampler's signature/da	
Reviewer's signature/d	te: <u>Apath Major</u> 10/23/09

			J		Well Num Start Date Start Time	):		1W 2 830	9
Well Casing Diameter (Bore Hole Diameter (in Annular Space (AS) Le Screened Interval (ft bg	): ngth (ft):			- - -	Well TD: Well DTW: Water Column: Pump Intake (ft bgs)				-
WELL VOLUME CA	CUATION	V							
Gallons per	foot of ann	nular space	(from chart of	on back)	=	32		90	
	Column of water or length of AS (whichever is less)						HINO ALC		
Volume of					=			_	
		ing (from ch	art on back)	)	=	·			
Column of					X	·			
Volume of			1/40:		=			<del></del>	
Number of		DLUME [EV]	(AS + casir	ng, gai)	= X			-	
		BE PURGED	(nal)		_			-	
		RGED (gal)			=	1	>	70	
Method of F		ì	aler			— 4		_	
Field Parameters		5-5-11-5-11-5-11-5-11-5-11-5-11-5-11-5			Reading				
Time									Final
Volume (gal)									Sample
Flow Rate (gpm)	311								N/A
DTW (ft toc)									
рН									
Conductivity (ųS/cm)									
Temperature (°C)									
Turbidity (NTU)									
Eh/Redox (mV)									
DO (mg/L)									
Purging Field Notes:	d fu	Il so	of s		os W	baile	or. t	aran	ne fers
Sample Date/Time: Sampler's signature/o Reviewer's signature/		10/20/ Muth	129 rant 1	0900 10/236	10/20/0°	Sample IE	)/TR #:	TMW2	710200