APPENDIX A GROUNDWATER SAMPLING FIELD SHEETS

Viacom (Buffalo Airport) Semi-Annual GIM Sampling

November 24, 2014

Project # 18036-2014 Field File

FIELD DATA RECORD FORM METER, TURBIDITY (PORTABLE) HACH 2100P

(QSF-421D)

Control No.: Date: User: Additional Equipment Lot 44.	NFO SO40 11/24/14 SG/DJT uipment Control Numbers 253 EVP. DEC 15/100/07U 1	Project No.: Project No.: Project Name: Location: and Descriptions:	18036.1321 VIACOM SEMI AUDUAL GUD SAMPLING RUFFALO AIRPORT DONNU LOTH AAZAT EXP DEC 15'
FIELD PROCE	DURE BEFORE USE:		
Do Not	Calibrate in the Field - In-	House Calibration Only by	/ Field Equipment Manager
			Check when completed
Extra AA ISample vi	medium 0-100, high 0-1000 patteries als) standards	
Test and reco	ord Gelex standards:		
 Low 0-10 Medium 0 High 0-10 	-100	Gelex Standard 20 100 800	Meter Reading 21.9 102 8/3
Note: Cond	ensation on outside of sa		r readings.
Signature:	Shan Ha	edner	

FIELD DATA RECORD FORM METER, TURBIDITY (PORTABLE) HACH 2100P

(QSF-421D)

ELD PROCEDU	JRE BEFORE USE:		
Do Not Ca	librate in the Field - Ir	n-House Calibration Only by	/ Field Equipment Manager
N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Check when completed
Check kit conten	ts;		
Meter	edium 0-100, high 0-10	00 etandards	X
Extra AA bat		oo standards	
Sample vials			Ĩ.
·			
est and record	Gelex standards:		<u> </u>
		Gelex Standard	Meter Reading
Low 090-24		20	21.3
Medium 0-10	00	100	100
High 0-1000		800	788
lote: Conden	sation on outside of s	ample bottles affects meter	r readings.

Date: 11/24/14	Reference No. <u>18036 - 2014</u>
GROUNDWATER SAMPLING EQUIPMI	ENT AND SUPPLY CHECKLIST
<u>EQUIPMENT</u>	<u>INSTRUMENTS</u>
Required Sampling Equipment (as per Work Plan or QAPP)	Water level indicator Thermometer * pH meter * Conductivity probe * Turbidity meter HNu/OVA/Microtip Air Monitoring Equipment Horiba U-22 multi perameter
Gasoline can/gas Polypropylene rope Aluminum foil Paper towels DH buffer solution(s) Conductivity standard solution(s) Decontamination Fluids (As per Work Plan and QAPP) Sample jars (extra) Sample jar labels (CRA) materials Cooler(s)/ice packs/packing materials Trash bags Sample preservatives Plastic spray bottles Plastic basin or pan Sample filter (On line or External Filter) Polyethylene sheeting First Aid Kit Personal Protective Equipment (as per HASP)	Chain of Custody Forms Well logs Notebook/Field book Photolog Site pass/badge Federal Express manifests Previous well logs/previous historical well data Site map Blank well data forms
MISCELLANEOUS	
☐ Well Cap Keys ☐ Bolt cutters ☐ Camera/film ☐ Knife ☐ Spare batteries for instruments ☐ Lock Deicer (winter)	Reinforced packing tape Pen/pencil/indelible marking pen Tool box Spare locks/keys On Site Transportation (all Terrain Vehicle/Snowmobiles)
Completed by: Dave Fren	Date: 11/24/14

FIELD DATA RECORD FORM METER, WATER LEVEL

(QSF-251D)

FIELD PROCEDURE BEFORE USE:	
	Check when completed
Check for broken or missing parts.	
Check battery	. 🔀
Check operation of buzzer.	. 🔀
Check operation of signal light.	K.
Test probe in water to ensure unit operates, both visually and audibly.	A
Check cable.	
	•
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•	
Filing: Field File Signature:	

Date:	11 25 14 Reference No.: 18036-2014
	PROJECT PLANNING COMPLETION AND FOLLOW-UP CHECKLIST
PRIOI	R PLANNING AND COORDINATION:
	Confirm well numbers, location and accessibility Review of project documents, Health and Safety Plan (HASP), sampling Quality Assurance/Quality Control (QA/QC) and site-specific sampling requirements Historical well data; depth, pH, performance and disposition of purge water Site access notification and coordination Coordination with laboratory through CRA Chemistry Group Procurement, inventory and inspection of all equipment and supplies Prior equipment preparation, calibration or maintenance All utilities located and approved
FIELD	PROCEDURE:
	Instruments calibrated daily Sampling equipment decontaminated in accordance with the QAPP Field measurements and sampling details logged in appropriate field books or an appropriate field form Well volume calculated and specified volumes removed Specified samples, and QA/QC samples taken per Quality Assurance Project Plan (QAPP) Samples properly labeled, preserved and packed Sampling locations secured or completed according to Work Plan Sample date times, locations and sample numbers have all been recorded in applicable log(s) Samples have been properly stored if not shipped/delivered to lab same day Samples were shipped with complete and accurate Chain of Custody Record
FOLL	OW-UP ACTIVITIES:
COM	Questionable measurements field verified Confirm all samples collected All equipment has been maintained and returned Sampling information reduced and required sample keys and field data distributed Chain of Custody Records filed Expendable stock supplies replaced CRA and client-controlled items returned (i.e., keys) Arrange disposal of investigation generated wastes with client Confirm all samples collected pleted by: Date:

DAILY LOG

11/24/14 HORE	BA 11-224 NI	FOURST CALA	BRATION USING	1469053 EXP. 4/15	<u> </u>
RI 4.00 AUTO CO					<u> </u>
R1 4.00	BEFORE	4.21	AFTER	3.98	
COND 4 A9	BEFORE	4.33	AFTER	4,50	
108BA.O	BEFORE	0.9	AFTER	0,3	
Do	BERE	8.82	AFTER	9,00	
HORIBA U-22 H		ALABRATION I	USING SAME CAL	Sa AS ABOVE	
A14,00	BEFERE_	4.34	AFTER	3.98	
GND 4.49	BEFERE	4.44	AFTER	4.49	
TURB 0.0	CEFORE		APTER	0,3	·
	REGORE.	8,51_		8.96	
0830 CAUSITE	NITISG WE	ATHER-CLO	DY W/ SOME SUN	USF WINDS SU	30-35HPH
GET AIRPORT	FSCORTTO	CROSS OVER	R TARMAC		
0847 CET 115	001 MW-34	9 MW-340/	FEND OF RUNINA	Y) PURGEY SAM	<u>PLE</u>
METHOD - PIR	BEY SAMPLE	USING MA	STERFLEX PERISTAL	JIC RIMPOLDE	DICATED
- 10 11	'cl /	•			•
094 SET 1	IP ON MW-3	S RIRGEYS	SAMPLE als	o proje (Sa	mple Mu-30.
USS SET U	PON MW-	2 BRBEY	SAMPLE	33 6 32	
1272 SET L	P ON MW.	28 RIRGE	+ SAMPLE		
1325 SET 1	IP ON MW	-S RIKGEY	SAMPLE		
1420 SET	UPON MW	-31 RIRGE	& SAMPLE BL	TROF 2 LAN	ES
W/ TRAFFIC (
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Annual Control of the State of		MOM	NITORING WE	LL RECORD FO	OR LOW-FLC	W PURGIN	<u>1G</u>	(CofC# 4	8207
Project Data: Project Name: Ref. No.:	Viacor 18036	(Ampor	4)	Date: Personnel:		14				
Monitoring Well Data: Well No.: Vapour PID (ppm): Measurement Point: Constructed Well Depth (m/ft): Measured Well Depth (m/ft): Depth of Sediment (m/ft):		040	ס	eturated Screen L epth to Pump In Well Diamete Well Screen Volu Initial Depth to '	take $(m/ft)^{(1)}$: er, D (cm/in) : ume, $V_s (L)^{(2)}$:		25			
Pumping Rate Time (mL/min)	Deptli to Water (nv/ft)	Drawdown from Initial Water Level "' (n\ft) cision Required ⁽⁵⁾ ;	Temperature C ±3 %	Conductivity (mS/cm) ±0.005 or 0.01 (6)	Turbidity NTU · ±10 %	DO (mg/L) ±10 %	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged "
0905 120 0910 140 0915 0920 124 0925 130 0930 124 0935 124 0947 0957	1,00 1,39 1,63 1,91 2,45 2,93 3,22	0,75 1.14 1.38 1.66 2.20 2.68 2.97	12.91 12.39 12.46 12.46 12.47 12.53 17.65 13.44 13.56 13.56	0.229 0.226 0.222 0.206 0.206 0.202 0.197 0.189 0.185	49.7 41.1 22.7 18.5 15.7 11.8 10.5 10.9 10.4 9.85	8.81 5.05 3.94 3.40 3.14 2.92 2.76 7.56 2.63 2.80	6.11 6.38 6.55 6.67 6.76 6.87 6.95 7.12 7.16 7.24	208 203 195 187 179 168 1.57 135 127 117		
Notes: (1) The pump intake will be placed at (2) The well screen volume will be base for Imperial units, V,=n*(r²)*L* (2. (3) The drawdown from the initial was (4) Purging will continue until stabilizand appears to be clearing, or unless stabilizing), No. of Well Screen Vo (5) For conductivity, the average value.	ied on a 1.52 metr 54) ⁴ , where r and ter level should r cation is achieved ss stabilization p	es (5-1001) screen fer L are in inches not exceed 0.1 m (0.3 or until 20 well scre arameters are varyin	ft). The pumping een volumes have b	rate should not excee peen purged (unless p of the stabilization cr	d 600 mL/min. purge water rema iteria and appear	ins visually tu	e in cm.	st-Cont Weter onba M	mol #'s NEO 758) FOSO 40	5

CRA 200010 (2) - Form SP-09 - Revision 2 - April 1, 2009

Start Purge @ 0850

Project Data:	Project Name: Ref. No.:	√ <i>IACO</i> N 1803	1 SEMI A		VELL RECORD FOF Date: Personnel:	R LOW-FLOW PR	11/24/	14		CofC#	7020 /
Me Constructed V Measured V	Well No.: apour PID (ppm): asurement Point: Veil Depth (m/ft):		-34		Well Screen V	n Length (m/ft): Intake (m/ft) ⁽¹⁾ : eter, D (cm/in): olume, V_s (L) ⁽²⁾ : o Water (m/ft):	NAME OF THE OWNER OWNER OF THE OWNER OWNE				
Time	Pumping Rate (mL/mln)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temperature °C ±3 %	Conductivity (m5/cm) ±3 %	Turbidity NTU ±10 %	DO (mg/L) ±10 %	pH ±0,1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	Na. of Well Screen Volumes Purged ⁽⁴⁾
0904	100	4.60 5.23 5.81 6.30	1.23 1.80 2.44 2.13	13.70 13.70 13.70	1.13	1.38 0.05 0.95 0.08 1.39	0.99	7.90 8.53 8.70 8.84 8.91	3 -20 -40 -44 -48		
				-					_		
										3 24 6	
otes:						tod at the well both		INST (LONTRA A-NFO	L_#S 4388	

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, V,=n*(r²)*L in mL, where r (r=D/2) and L are in cm. For imperial units, $V_3 = \pi^*(r^2)^* L^* \left(2.54\right)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

WIL HETER-NEOUS TURBIDIMETER_00192

START PURGER 0855

A service by the property of the service of the property of the service of the se	V	MONITORING W	ELL RECORD F	OR LOW-FLO	W PURGIN	G		CAC#4	18 ZO 7
Project Data: Project Name: Ref. No.:	Viacom (A 18036-2014	(troops)	Date: Personnel:	. 11-Z	4-14				
Monitoring Well Data: Well No.:	MW-30	S	aturated Screen L Depth to Pump In Well Diamete Well Screen Volt Initial Depth to	ength (m/ft): take (m/ft) ⁽¹⁾ : er, D (cm/in): ume, V _s (L) ⁽²⁾ :					
Pumping Rate Time (mL/min)	Drawdowi Deptli to from Initia Water Water Level (nv/ft) (nv/ft) Precision Require	l Temperature °C	Conductivity (mS/cm) ±0.005 or 0.01 ⁽⁶⁾	Turbidity NTU - ±10 %	DO (mg/L) ±10 %	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged '''
1078 92 1033 1038 96 1043 1048 1043	6.48 1.31 6.87 1.70 8.60 3.42	14.52 14.93 14.61	1,07 1,08 1,08 1,08 1,08	26.7 12.0 4.61 3.20 4.09 3.20	4,39 2,97 2,49 2,23 2,03 1,90	7.23 7.35 7.43 7.49 7.51 7.54	-73 -100 -111 -117 -121 -125		
Notes: (1) The pump intake will be placed at	the well screen mid-point or at	a minimum of 0.6 m (2	ft) above any sedimer	t accumulated at	the well botton	in cm.	-nst- Ca	mtol#'s	
 (1) The pump intake will be placed at (2) The well screen volume will be based for Imperial units, V_s=π*(r²)*L* (2.3) (3) The drawdown from the initial wat (4) Purging will continue until stabilizand appears to be clearing, or unless stabilizing), No. of Well Screen Vo (5) For conductivity, the average value 	sed on a 1.52 metres (5-1001) sete 54) ⁴ , where r and L are in inche. Iter level should not exceed 0.1 r vation is achieved or until 20 we iss stabilization parameters are v	iet tengur (2). For ited n (0.3 ft). The pumping il screen volumes have varying slightly outside	rate should not excee been purged (unless peof the stabilization ca	d 600 mL/min. purge water remai iteria and appear	ns visually tur	oid H	nst. Co ilc Hete ioriba N irb Ni	NF075 F06155 F05040	381

* CRA 200010 (2) - Form SP-09 - Revision 2 - April 1, 2009

Sand F. D. 1/A-18/21. 112411. AC DOM

SAMPLE TIME 1025 DEPOSITE

	- N. A.		naman di Tarana di Santa Propinsi di Anta di Santa di Sa	MONITORING 1	WELL RECORD FOR	R LOW-FLOW P	URGING		CofC# 48207			
Project Data:	Project Name: Ref. No.:	VIACON 1803	SEMI A 2.2014	NNUAL	Date: Personnel:		11/24/11. SB	4				
Me Constructed V Measured V	Well No.: Well No.: apour PID (ppm): asurement Point: /eil Depth (m/ft): /ell Depth (m/ft): Sediment (m/ft):			- - -	Well Screen V	i Length (m/ft): intake (m/ft) ⁽¹⁾ : eter, D (cm/in): olume, V _s (L) ⁽²⁾ : o Water (m/ft):						
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft) Precision Required:	Temperature °C	Conductivity (mS/cm) ±3 %	Turbidity NTU ±10 %	DO (mg/L) ±10%	pH ±0.1 ∀nits	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾	
1005 1010 1015 1020 1025	100	14.46 15,05 15.52 16.10 16.51	1.55 2.14 2.61	14.75 14.42 14.19 14.15 14.12	0,158 0,152 0,150 0,151 0,151	2,88 2,30 3,87 3,42 3,18	5.83 5.59 5.29 4.87 4.80	7.20 7.11 7.03 6.98 6.90	55 70 75 78 81			
For Imperial units The drawdown fr Purging will continued appears to be	olume will be based of $V_s = \pi^* (r^2)^* L^* (2.54)^3$ om the initial water by	on a 1.52 metres (5- , where r and L are evel should not exce is achieved or until tabilization paramel	in inches ed 0.1 m (0.3 ft). The	ne pumping rate shou	nny sediment accumula V _s =n*(r ²)*L in mL, wher Ild not exceed 600 mL/1 Id (unless purge water r bilization criteria and ap	nin. emains visually tur	**************************************	ORIBA I ORIBA I JEBIDIM	TROL 1 VFO438 R-NFO ETER-	75 8 6118 00192		

CRA 047392 (16) APPH

START PURBER 0955

			<u>10M</u>	VITORING WI	ELL RECORD FO	OR LOW-FLO)W PURGIN	<u>G</u>		•	
Project I	Data: Project Name: Ref. No.:	Viacor 18036	-2014	Poor4)	Date: Personnel:	11-50	1-14	·			
N N Constructed Measured	ing Well Data: Well No.: Vapour PID (ppm): Ieasurement Point: Well Depth (m/ft): Well Depth (m/ft):			Se D	nturated Screen L epth to Pump In Well Diamete Well Screen Voh Initial Depth to	ength (m/ft): take (m/ft) ⁽¹⁾ ;				-	
Depth (of Sediment (m/ft):				Initial Depth to	water (m/ ft):		<i>)</i>			
Time	Pumping Rate (mL/min)	Deptli to Water (n:/ft)	Drawdown from Initial Water Level™ (m/ft)	Temperature ° C	Conductivity (m5/cm) ±0.005 or 0.01 (b)	Turbidity NTU - ±10 %	DO (mg/L) ±10 %	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volunes Purged '''
		<u></u>	ecision Required (5);	#3%		2.58	5.06	7.77	~ 2		
1118		6.67	1.02	14.65	1.65	1.78	3-36	7.81	-15		
1128		7.87	7.76	14.88	1.64	1.22	2.87	7.87	-21		
1/38))	1.01	<u> </u>	15:09	1.64	1,40	3.20	795	-15f		
and the control of th											
							<u> </u>				
								-		8 6 62	
(2) The well s For Imper (3) The draw (4) Purging v and apper	intake will be placed a creen volume will be be ial units, V,=n*(r²)*L* (2 down from the initial w rill continue until stabil ars to be clearing, or uni (3), No. of Well Screen V ctivity, the average val	ased on a 1.52 mer 2.54) ³ , where r and rater level should: ization is achieved less stabilization p	d L are in inches not exceed 0.1 m (0.3 d or until 20 well scr parameters are varyi	3 ft). The pumping teen volumes have ng slightly outside	rate should not exce been purged (udess of the stabilization c	ed 600 mL/min. purge water rem riteria and appea	ains visually tur ir to be	bid	inst-Co wb NF torba N WL Meter	mtrol 4's 05040) F06155 NF0756	

Start Perge @ 1114

	-		area (n. 1921). Anna a tha ann an Aireann an	MONITORING W	ELL RECORD FO	R LOW-FLOW PL	<u>JRGING</u>			CofC#4	<u>45 </u>
Project Data:	Project Name: Ref. No.:	VIACOI 18032	4 SEMI) - 2014	ANNUAL	Date: Personnel:	200	1 <u>24 14</u> S6			_	
Me: Constructed W Measured W	Well No.: Well No.: apour PID (ppm): asurement Point: Veil Depth (m/ft): Vell Depth (m/ft): Sediment (m/ft):				Saturated Screei Depth to Pump Well Diam Well Screen V						
Time	Pumping Rate (mL/mlπ)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (nr/ft)	Temperature °C ±3 %	Conductivity (mS/cm) ±3 %	Turbidity NTU ±10 %	DO (mg/L) ±10 %	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
1115 1120 1125 1130 1135 1140	90 90 90	7.51 8.07 8.03 9.05 9.05 1.52 10.10	Precision Required:	15,40 15,19 15,21, 15,38 15,27 15,31	11.3	0.93	0.US 0.23 0.08 0.19 0.09 0.00	9.54 9.47 9.32 9.45 9.45	-93 -91 -94 -90 -89 -83		

Notes: (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, V_z=n*(r²)*L in mL, where r (r=D/2) and L are in cm. For imperial units, $V_s = \pi^* (\Gamma^2)^* L^* \left(2.54\right)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mi./min.

Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

HORIBA NFO4388 W/L METER-NFOLOIIB

TURBDIHETER-06192

CRA 047392 (16) APPH

START PURGED 1108

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	And the second section of the second section of the section of the second section of the section of the second section of the section of		<u>MO1</u>	NITORING WE	ELL RECORD FO	OR LOW-FLO	W PURGIN	<u>G</u>	Cott"		
Project Dat	ra:			1		11/24	150				
170/702.20	Project Name:		(ALEPOC	+)	Date: Personnel:	11/24	14				
	Ref. No.:	18036	2014		i eraoruici.	בנגו	sur ,			-	
Monitoring	Well Data:				•						
	Well No.:	HW.	-32			4 / /0				_	
Vap	our PID (ppm):			·	nturated Screen L epth to Pump In	.ength (m/ft): take (m/ft) ⁽¹⁾ :					
	surement Point:				*	er, D (cm/in):					
	II Depth (m/ft):				Well Screen Vol	ume, $V_s(L)^{(2)}$:					
l .	ell Depth (m/ft):				Initial Depth to		ja.	125			
Deparors	lediment (m/ft):		Drawdown		· ·					Volume	No. of Well
	Pumping	Depth to	from Initial Water Level'''	Temperature	Conductivity	Turbidity	DO	pH	ORP	Purged, Vp	Screen Volumes Purged "'
Time	Rate (mL/min)	Water (m√ft)	(111/ft)	°C	(mS/cm)	NTU .	(111g/L) ±10 %	±0.1 Units	(n1V) ±10 n1V	(L)	ringen
		Pre	cision Required (5) :	±3 %	±0.005 or 0.01 (6)				1/1/5		
1221	100	1.19	0,94	13-13	1,00	40.8	5/56	7.88 7.83	-143		
1226		1.43	1.18	13.23	0.766	28-6	3.97	7.81	-143		
1231	/00			13.22	0.730	20.0	373	7.89	-140		
1236		1.76	1.51	13-39	6.59 Z	/3.0	387	7.88	-128		
1291	96	21/3	2.15	13.56	0.5/7	11/6	3.93	7.86	-118		
1246	00	2.40	4.12	13.50	0.468	10.9	3.93	7.86	-111		
1251	88	3.13	2.88	13.59	0.409	11.8	3.93	7.84	-104		
1256 130 L	88	~J. [.J		13.72	0.375	10.9	3.90	7.84	-96		
1306		3.76	3.51	13.78	0.354	12.4	4.04	7.84	-90		
/311	88			(3.73	0.340	10.3	4,07	7.84	-85		
1316		4,20	3,95	13.65	0-333	10.2	4.10	7.83 7.83	<u>-8(</u> -77		
1321				13.74	0.330	10-8	4.07	1.00			
							l	90000	nst. Cor	1,1 #5	
Nates:		No wall career p	dd-point or at a mir	nimum of 0.6 m (2 f	t) above any sedimer ic units, V,=π*(r²)*L i	nt accumulated at	the well botton		Met.	AIFATOR	aus Î
1 (2) The well scree	n volume will be bas	sed on a 1.52 men	62 (2-100t) acreering	ength (L). For metri	ic units, $V_s = n^*(r^2)^*L$	in mL, where r (r=	D/2) and Lare		L Meter	MED HO	\$
For Imperial u	ınits, V₅=л*(r²)*L* (2.:	54)*, where r and	L are in inches	a (1) TO	-a to about d mat exces	ed 600 mL/min.		No	ribe NF	06155	
							ins visually tur : to be	TC	ith NF	05040	
and appears to	o be clearing, or unle	ss stabilization p	arameters are vary	nig stightly ongree	of the stabilization C	11					P

Start Perge @ 1212

(5) For conductivity, the average value of three readings <1 m5/cm ±0.005 m5/cm or where conductivity >1 m5/cm ±0.01 m5/cm.

stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

[2] The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, V_s=n*(r²)*L in mL, where r (r=D/2) and L are in cm. For imperial units, $V_s = \pi^*(r^2)^*L^*\left(2.54\right)^3$, where r and L are in inches

The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

WL HETER-NAGUIS TURBIDIMETER - 04192

START PURGER 1226

SAM	QE.	ID#WB	<u> 1803.</u>	3-11 <u>24</u> 4	MONITORING V	VELL RECORD FOR	R LOW-FLOW P	URGING	May 1 TI CE		CofC#	<u> </u>
Project	Data:	Project Name: Ref. No.:	VACON-V	1 SEMI / 2-2014	INNUAL	Date: Personnel:						
Meas	Va Mea ucted W sured W	Well No.: pour PID (ppm): surement Point: ell Depth (m/ft): ell Depth (m/ft);		-31	·	Well Screen V	n Length (m/ft) Intake (m/ft) ⁽¹⁾ eter, D (cm/in) olume, V _s (L) ⁽²⁾ o Water (m/ft)				- : - : - : - :	
Tin		Pumping Rate (mL/mln)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft) Precision Required:	Temperature °C ±3 %	Conductivity (mS/cm) ±3 %	Turbidity NTU ±10 %	DO (mg/L) ±10 %	pH ±0,1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
143	45 50 55 50	60 64	4,18 4,55 4,87 5,19	0.72	14.17 14.37 14.39 14.35	14.7 14.0 13.0 13.0	23.9 20.3 19.9 18.9	0,53 0,08 0,00 0,00	1.20	-194 -196 -195 -194	20	
										-		
												,
(2) The well For linps (3) The draw (4) Purging and app	screen vo erial units, vdown fro will contin	olume will be based on $V_s=n^*(r^2)^*L^* (2.54)^3$ om the initial water for	on a 1.52 metres (5 , where r and L are evel should not exq is achieved or unt tabilization parame	e in inches seed 0.1 m (0.3 ft). Th	e pumping rate should	ny sediment accumulal ,==n*(r²)*L in mL, wher d not exceed 600 mL/r l (unless purge water r llization criteria and ap	nin. emains visually tui	tom. Hok re in cm. W/L	CONTROL CIBA NF METER CBIDIME	_#S -04388 -NFOG TER-0	11B 1192	

CRA 047392 (16) APPH

START PURGE & 1436

Darel Typian

BLIND DUPLICATE-WG-180360-112414-011

SAMPLETIME 1400

Project Data:	Project Name: Ref. No.:	VIACOM 1BO3L	SEMI AN 1-2014		<u>WELL RECORD FOF</u> Date: Personnel:					autoriory and an artistic for the state of t	
Mea Constructed We Measured We	Well No.: pour PID (ppm): surement Point: eil Depth (m/ft): ell Depth (m/ft):		1-5		Well Screen V	n Length (m/ft): Intake (m/ft) ⁽¹⁾ : eter, D (cm/in): olume, V _s (L) ⁽²⁾ : o Water (m/ft):				-	48207
Time	Pumping Rote (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temperature °C	Conductivity (mS/cm) ±3 %	Turbidity NTU ±10 %	DO (mg/L) ±10%	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
1338 1343 1348 1353 1358	100 90	3,10 3,58 4,01 4,49 4,49	Precision Required:	15,50 15,55 15,58 15,52 15,57	1.91 1.84 1.84 1.82	1.41 0.92 1.69 0.65 0.80	0.38	9.80 10.08 10.20 10.20 10.27	-107 -124 -131 -136 -138		
The well screen vo For imperial units,	lume will be based o V _s =,1*(r²)*L* (2.54)³	on a 1.52 metres (: , where rand Lar	e in inches	o numning rate shot	any sediment accumula V _s =n*(r ²)*L in mL, whe yid not exceed 600 mL/ ad (unless purge water in bilization criteria and a	min.	om. e in cm.	IST CONT ORIBA N IL METE JRBIDIMI	TROL PO FO 4388 ERL NFO	58 6118 6192	

START PURBLE 1331

Duc Fre

Viacom 18036-2014

TAILGATE SAFETY MEETING FORM SMALL GROUP FORMAT - MULTIPLE DAYS [INSERT SITE NAME AND LOCATION]

Date: 11/24/14	Time: 	Presenter	D. Tyran	
Safety topics/items discussed: Traffic Safety, Some flagging to lone Pra	Warn mot ctice ST	ls will referred of	people in the	and drive
Site personnel in attendance:				
Print Name David Tyran Shawn Gardner	Signa Thair	ture Espean Hardri	COmpany CRA CRA	
Date:	Time:	Presenter :		
Safety topics/items discussed:				-
Print Name	Sign	ature	Company	
Date:	Time:	Presenter :		
Safety topics/items discussed:				
Print Naute	Sign	arure	Company	

Via Com (Buffalo Arport)
Semi-Annual GW Sampling
April 1, 2015

Project # 18036-2014 Field File

18036-2014 Viacom (Baffalo Airport)

DAILY LOG

DAIL I LOG
4/1/15 YSI PRO PLUS # GSHOUZIZ CALABRATION USING PH 4.00 AUTO
CALLOT # C47/810 EXP. 7/15
PH 4 CO BEFORE 4.00 AFTER 4.00
COND 4.49 BEFORE 4.52 AFTER 4.49
00% BAR. 747.7 94%
YSI PROPLUS #NFO71602 CALABRATION USING SAME AS ABOVE CAL SOLUTION
R1400 BEFORE 3.99 AFTER 4.00
COND 449 BEFORE 4.41 ACTER 4.49
00% BAR 747.7 98.5%
0823 ONGITE DIT SG WEATHER - SLINNY WINDS NO-SMPH
GET ESPORT FOR DRIVENG ARCROSS TARMAC
0840 STT 110 AN MW. 34 PROPER SAMPLE 1010 FIRM DOT PURE & Sample 34
DONO ACTURE MILL-25 BIOGE & SAMPLE DIL 1010 PLAGE SOME
1119 SET UP ON MW-2 PURGE+ SAMPLE 1100 DST PURGE & Sample MW32 1242 SET UP ON MW-28 PURGEN SAMPLE 1135 DST PURGE & Sample MW33 1356 SET UP ON MW-31 PURGEN SAMPLE 1250 DST PURGE & Sample MW 5
1242 SET UP ON MW-28 PURBEN SAMPLE 1135 DJT PUTOE & SEMPLE MW3
1356 SET UP ON MW-31 PURDE & SAMPLE 1250 DOT Rige & Sample MWS
TRIPBLANK-TB-18036-04015-SG (2)
1519 OFFSITE
1000
/ he/\
$\mathcal{N}^{\mathcal{L}}$

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VIACOM QUARTERLY WATER LEVELS

Date: 4/	1/15	
Crew: SG	DIT	
Water Level #:	NFOGIIO.	NFOGII

Well ID	Time	Water Level	PID
MW-32	i137	0.44	
MW-2	1123	6.87	
MW-28	1241	5.85	
CSMH-3	NA		NA.
MW-5	1258	2.59	
CSMH-2	NA		
MW-31	1351	5.01	
MVV-30	1009	3.92	
CSMW-1	NA		
MVV-34	0850	2-65	
MW-34D	0849	0.06	
MVV-33	1057	5.18	
MW-35	1000	12-22	

NOTES:

Dare Septem

	94.101	EINE	WG-180	360-04	ot i 5 - 5E	5-00 l			SAMPL	E TIM	E 092	0
	JAMEL		VV C	MO	NITORING W	ELL RECORD F	OR LOW-FLC	W PURGIN			Colcas	
777	Project Date	ı: Project Name: Ref. No.:	VIACE 1803			Date: Personnel:						
	Monitoring	Well Data:				•						
	Vapo	our PID (ppm): urement Point:		-34	Sa Sa	aturated Screen L Pepth to Pump In	ength (m/ft): take (m/ft) ⁽¹⁾ :				-	
	nstructed Wel	I Depth (m/ft): I Depth (m/ft):				Well Diamete Well Screen Vol	er, D (cm/in): ume, V _s (L) ⁽²⁾ :				-	
'		diment (m/ft):				Initial Depth to			2.65	and)	L	
	Time	Pumping Rate (mL/min)	Deptli to Water (m/ft)	Drawdown from Initial Water Level ^w (m/ft) ccision Required ⁽⁵⁾ :	Temperature ° C ±3 %	Conductivity (mS/cm) ±0.005 or 0.01 (b)	Turbidity NTU · ±10 %	DO (111g/L) ±10 %	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged "
	0900	100	3,51	0.80	10.1	1.01	1.23	2.92	7.19	124.2		
	0905		A.20	1,55	6.2	1,00	1.57	2.47	7.39	110.1		
	0910	100	4.69		6.3	1.00	1.01	2.42	7.51	115.2		
NY Berlin Control			-									
								,				
										-		
Not	es:		L						INST	CONTR	a its	>
(1) (2)	The pump intak The well screen	é will be placed at volume will be bas	the well screen med on a 1.52 metr	nid-point or at a mir res (5-foot) screen le	umum of 0.6 m (2 ft ngth (L). For metri	t) above any sedimen c units, V _s =π*(r ²)*L i:	t accumulated at n mL, where r (r=	tne well botton D/2) and L are	in cm. YS	1 - BSHC	06212	3119
(3)	For Imperial un. The drawdown	its, V,=n*(r²)*L* (2. from the initial wa	54)", where r and ter level should r	to Lare in inches not exceed 0.1 m (0.3 nor until 20 mail car.	ft). The pumping	rate should not excee	d 600 mL/min. urge water remai	ns visually tur	bid Table	- ILLE	ER-GS	H010192
(4)	Furging will cor and appears to be etablizing) No.	ntinue until stabiliz se clearing, or unle of Well Screen Vo	sanon is acmeved ss stabilization pa lumes Purged= V	arameters are varyi p/Vs.	ng slightly outside	t) above any sedimen c units, V,=n*(r²)*Li: rate should not excee seen purged (unless p of the stabilization cr	iteria and appear	to be	IUK	CULLE		
(5)	For conductivity	, the average valu	e of three reading	s <1 m5/cm ±0.005	mS/cm or where c	onductivity >1 mS/c	m ±0.01 mS/cm.	o Marian marital department of the Special Control				estate conference, and to depote that the insurpress of the military supplies and a

START PURBEC 0855

o Acquission of the Control of the C			<u>10M</u>	VITORING W	ELL RECORD F	OR LOW-FL	OW PURGII	<u>1G</u> ,		Coff #	48216
Project Dat	ia: Project Name Ref. No.	: <u>Viac</u> : 18036	om (A.	rport)	Date: - Personnel: -		15		***************************************		
Monitoring	Well Data:				•						
	· Well No.	: <u>MW-</u>	340								
Vaj	our PID (ppm)				aturated Screen I					. -	
Mea	surement Point			Ε	Pepth to Pump In	• • •				-	
Constructed We					Well Diamete	er, D (cm/in)					
Measured We	ll Depth (m/ft)	:			Well Screen Vol					Ŀ	
Depth of S	ediment (m/ft)	:			Initial Depth to	Water (m/ft)	<u> </u>	06			
Time	Pumping Rate (mL/ntin)	Deptli to Water (m/ft)	Drawdown from Initial Water Level™ (m/ft)	Temperature ~ C	Conductivity (mS/cm)	Turbidity NTU -	DO (111.g/L)	рН	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged'''
Time	(mg mm)		cision Required (5):	±3 %	±0.005 or 0.01 (b)	±10 %	±10 %	±0.1 Units	±10 mV		
0908	90	0,80	0.74	7, 2	0.267	93	0.36	7.40	70.9		
0913		10.00	0.2	7,0	0.264	95,6	0.36	7.72	8.05		
09/8	100	1001	0.95	7. Z	0.263	45.1	0.30	7.74	-36.8		
0923	, 00	1201		7. 7.	0 26 2	24.9	0.31	7.87	-544		
0928	Rrist	al Pum	o died	See Hel							
0933		1.49	1.43	8.1	0.258	38.2	1.15	7.86	43.2		
0938	116	1 1 1		7,9	0-263	22.2	0.48	7.89	-100		
0943	100	1.73	1.67	7.8	0-263	19.3	038	7.87	-41.8		
0948	100			٥, ع	0.262	17.6	0 29	7.69	620		
953		2.19	2.13	8.1	0.262	18-1	0.32	7.89	-72.0	,	
0958				7.9	0.263	18.1	0.32	7.89	-76.9		
1											
					L		<u> </u>		·		

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, V₃=π*(r²)*L in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi^*(r^2)^*L^*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Turb. NF05040 YSI NF07602

Start Purge 0858

BLIND DUPLICATE-WG-180362-040115-86-005

SAMPLE TIME 1055

SAMPLE 10#WG-18036-040115-SB-003

Measurement Point:	IW-35		Saturated Screen 1		6				
Depth of Sediment (m/ft):		- -		ntake (m/ft) ⁽¹ er, D (cm/in) lume, V _s (L) ⁽²⁾		12.20			
Pumping Depti Rate Wa Time (mL/min) (m/)	er Water Level™	Temperature ° C ±3 %	Conductivity (mS/cm) ±0.005 or 0.01 ⁽⁶⁾	Turbidity NTU - ±10 %	DO (mg/L) ±10 %	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged **
1015 104 13.0 1020 13.3 1028 100 14.0 1030 14.9 1040 100 15.3 1045 16.0 1050 10.1	51 1.29 52 1.80 58 2.36 4 2.92 57 3.35 51 3.79	8.8 9.0 9.0 9.1 9.3 9.3 9.4	0.342 0.332 0.332 0.333 0.334 0.330 0.338 0.340	16.9 20.8 19.1 19.3 20.7 21.3 20.0	1.01 0.65 0.60 0.54 0.52 0.56 0.55	7.62 7.61 7.61 7.61 7.61 7.61 7.61	97.7 76.2 66.2 56.9 41.5 54.6 58.3 56.8		

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = n^*(r^2)^*L$ in mL, where r(r=D/2) and L are in cm. For Imperial units, $V_s = \pi^*(r^2)^*L^*$ (2.54)⁴, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

YSI-GSHOUZIZ WIL METER-NFOURS TURBIDIMETER-6SH 60192

START PURGER 1008

a province and the second seco		mmerconsulate transferment ages and University	MOI	NITORING W	ELL RECORD F	<u>or low-fi</u>	OW PURGII	NG .		CofC	aisby #
Project Da	ta: Project Name: Ref. No.:	VILCO 18036	A) mo	(troops	Date: Personnel:		15	·			· ·
Va Mea Constructed Wo Measured Wo	g Well Data: Well No.: pour PID (ppm): asurement Point: ell Depth (m/ft): ell Depth (m/ft): Sediment (m/ft):		- 30		Saturated Screen I Depth to Pump In Well Diamet Well Screen Vol Initial Depth to	take (m/ft) ⁽¹ er, D (cm/in) ume, V _s (L) ⁽²): 	5: 9 2			
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level™ (m/ft) ecision Required ⁽⁸⁾ :	Temperature °C ±3 %	Conductivity (m\$/cm) ±0.005 or 0.01 ^(b)	Turbidity NTU · ±10 %	DO (mg/L) ±10 %	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged'''
1026 (031 (036 1041 1046	104 60	5,2Z 6,0Z 6,51	2.10	7.6 7.7 7.6 7.7 7.9	0.679	7.63 7.61 7.00 6.13 5.89	0.65 0.36 0.43 0.44 0.40	7.60 7.32 7.63 7.62 7.62	-30.5 -82.2 -92.8 -97.0 -100.6		
										. ,	
											tro/4'5

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi^*(r^2)^*L$ in mL, where r (r = D/2) and L are in cm. For Imperial units, $V_s = \pi^*(r^2)^*L^*(2.54)^4$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

W/L Meter NF06117 YSI NF07602 Turb. NF05040 Cupu

Start Purge @ 1020

		50	enple.	ID W	1G-1803	36-040	115-05	7-006		Time	<u> 1130</u>	
,	erregione de la companya de la companya es es esta de la companya es esta de la companya es esta de la companya		age and the second			ELL RECORD F					CefC#	48216
	Project Dat	a: Project Name: Ref. No.:	Viaco 18036	m (Airy	Les (Aris	Date Personnel	<u>4.</u>	1-15 DT	-		-	
	Mouitoring	Well No.:	MVJ-3									
	Mea	our PID (ppm): surement Point:				aturated Screen I Depth to Pump Ir Well Diamet					-	
V Cox	Ieasured We	il Deptil (in/ft): Il Deptil (m/ft): ediment (m/ft):				Well Screen Vol Initial Depth to	ume, V _s (L) ⁽²⁾ :	•	1.18			
	Time	Pumping Rate (mL/min)	DeptII to Water (m/ft)	Drawdown from Initial Water Level™ (m/ft)	Temperature * C	Conductivity (mS/cm)	Turbidity NTU -	DO (mg/L)	рН	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged "
	Time	(cision Required (5):	±3 %	±0.005 or 0.01 (b)	±10 %	±10 %	±0.1 Units	±10 mV		
	1116	104	6.08	0.90	7.9	1.51	3 11	3.76	7.91	67.3 64 Z		
	1126	96	G-8Z	1.64	7.7	1.52	3-60 63-6-5	38i	7.91	62.7	Turk	3.24
			-									
							<u> </u>					

Notes

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = n^*(r^2)^* L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = n^*(r^2)^* L^*$ (2.54)³, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged = Vp/Vs.

For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Start Puge @ 1108

Dae Syer

SAMPLE ID# WG-1803LD-040115-SG-007 SAMPLE TIME 1225 CofC# 48216 MONITORING WELL RECORD FOR LOW-FLOW PURGING Project Data: Project Name: VIACOM SEMI - ANNUAL
Ref. No.: 180:318 - 2014 Personnel: Monitoring Well Data: Well No.: MW-2
Vapour PID (ppm): Saturated Screen Length (m/ft): Depth to Pump Intake (m/ft)(1): Measurement Point: Well Diameter, D (cm/in): Constructed Well Depth (m/ft): Well Screen Volume, V_s (L)⁽²⁾: Measured Well Depth (m/ft): Initial Depth to Water (m/ft): Depth of Sediment (m/ft): Drawdown No. of Well Volume Depth to from Initial Pumping Screen Volumes pHORP Purged, Vp DO Water Level" Conductivity Turbidity Water Temperature Rate Purged " (mV)°С NTU -(mg/L) (mS/cm) (m/ft)(mv/ft) Time (mL/min) ±0.1 Units ±10 mV ±10 % ±0.005 or 0.01 (6) Precision Required (5) ±3 % -50.3 100 10.0 10:00 100 10.

V	lot	es

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, V,=n*(r*/)*L in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = n^*(r^2)^*L^*(2.54)^3$, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

INST. CONTROL #5 YSI-GSHOUZIZ WL METER-NFOUR TURBIDIMETER - GSH 06192

START PURGED 1132

Sample ID WG-18036-04015 DST-008 Time 1210							
MONITORING WELL RECORD FOR LOW-FLOW PURGING CAC 48216							
Project Data: Project Name: Viccom (Airp Ref. No.: 18036 - 2014	Pers	Date: ' 4-1					
Monitoring Well Data: Well No.: HW-32 Vapour PID (ppm): Measurement Point: Constructed Well Depth (m/ft): Measured Well Depth (m/ft): Depth of Sediment (m/ft):	Depth to Pu Well D Well Scree	creen Length (m/ft): mp Intake (m/ft) ⁽¹⁾ : tiameter, D (cm/in): en Volume, V _s (L) ⁽²⁾ : pth to Water (m/ft):		74			
Drawdown Pumping Depth to from Initial Rate Water Water Level™ Time (mL/min) (n√ft) (n√ft) Precision Required ⁽⁵⁾ :	Temperature Conducti C (mS/cn ±3 % ±0.005 or (n) NTU ·	(ing/L)	pH ORP (mV) 1 Units ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volunes Purged "	
1148 92 1.03 0.59 1.53 100 1.58 1.42 0.98 1203 60 1.39 0.95 1208	7.4 3.26 7.4 3.2 7.4 3.2 7.4 3.2 7.6 3.28	7 24.6 7 16.5 8 11.0	0.20 7	69 - 107.3 65 -138.7 66 -148 1 -66 -151-7 -67 -152.6			
Notes: (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom. (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_* = n^*(r')^* L$ in mL, where r ($r = D/2$) and L are in cm. For Imperial units, $V_* = n^*(r')^* L^*$ (2.54)°, where r and L are in inches (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min. (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged = Vp/Vs . (5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.							

Start Purge @ 1144 CRA 200010 (2) - Form SP-09 - Revision 2 - April 1, 2009

SAMPLE ID#WB-18036-040115-SG-009 SAMP							E TIME	1320				
A CONTRACTOR OF THE CONTRACTOR	MONITORING WELL RECORD FOR LOW-FLOW PURGING Cafe 48216								8216			
	Project Data	: Project Name Ref. No.	: VIACOR	1 SEMI-1	ANNEIAL_	Date: Personnel:	: <u> </u>	1/15			-	
	Monitoring V	Well No.	:Mu	(-28	- S	Saturated Screen I						
Vapour PID (ppm): Saturated Screen Length (m/ft): Measurement Point: Depth to Pump Intake (m/ft) ⁽¹⁾ :												
	nstructed Well Measured Well					Well Diamet Well Screen Vol	er, D (cm/in): ume, V _s (L) ⁽²⁾ :					
		diment (m/ft):				Initial Depth to	Water (m/ft):		5.85			
TOO TO THE PARTY OF THE PARTY O	Time	Punping Rate (mL/min)	Depth to Water (m/ft) Pro	Drawdown from Initial Water Level''' (m/ft) ecision Required ⁽⁵⁾ :	Temperature ČC ±3 %	Conductivity (mS/cm) ±0.005 or 0.01 ^(b)	Turbidity NTU · ±10 %	DO (111g/L) ±10 %	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged "
A COLUMN TO THE PROPERTY OF TH	1257	100	6:18 6:33 6:51	0.33	9.5	9.48 9.51 9.40	2.28 1.88 1,47	0.98	7.40 7.36 7.35	-147.3 -159.1 -174.4		
Comments of the Comments of th	1312	100	6.83	0.81	9,5	9,46	2,02	0.50	7.34	-184.1 -188.3		
	·											
	·											
constitution of the section of the s									·			
(1)	Notes: (1) The nump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom. (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, V,=n*(r²)*L in mL, where r (r=D/2) and L are in cm. For Imperial units, V,=n*(r²)*L* (2.54)*, where r and L are in inches (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min. (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid)											
(3) (4)	For Imperial units, V,=n*(r²)*L* (2.54)*, where r and L are in inches (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min. (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid WIL METER - N FOR 18											
(5)	and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs. For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.											

START PURGER 1250

Das Jyren

MONITORING WELL RECORD FOR LOW-FLOW PURGING							CatCh	48216				
**************************************	Project Date	ı: Project Name Ref. No.	: <u>Vicco</u> : <u>18036</u> -	m (Airp	x = +)	Date: Personnel:	<u>4-1</u>	-15 -			-	
	Monitoring	Well Data:		, records		,						
		Well No.	: <u>Mw</u> -	3	-	aturated Screen I	ength (m/ft):			•		
Vapour PID (ppm): Saturated Screen Length (m/ft): Measurement Point: Depth to Pump Intake (m/ft) ⁽¹⁾ :									_			
Co					-	Well Diamete	er, D (cm/in):					
,	Measured Wel	l Depth (m/ft):				Well Screen Vol			, .:0		-	
No.	Depth of Se	diment (m/ft):			-	Initial Depth to	Water (m/lt):		2,59		-	
·	Time	Pumping Rate (mL/min)	Depth to Water (111/ft)	Drawdown from Initial Water Level™ (m/ft)	Temperature C	Conductivity (mS/cm)	Turbidity NTU -	DO (ing/L)	pН	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged "
- Common of the			Pr	ecision Required (5);	±3 %	±0.005 or 0.01 (6)	±10 %	±10 %	±0.1 Units	±10 mV		<u> </u>
	1310	112			10.3	1.98	4.04	0.41	811	67.1		
	1315	76	3.91	1.32	10.9	1.95	1.50	0.29	8.12	50.4		
	1320	76			10.7	1.94	2.19	0.30	814	35.6 25.6		
	1325	60	1.00	2 2 1	11:1	1.94	1-02	0.30	8.12	17-4		
	1330		4.83	2.24	11.3	1.96	0.78	0.30	8.12	10-3		
	1335				10,1	1-1-1	0,0					
designation of the state of							L			1		10 15
No		e will be placed at	t the well screen r	nid-point or at a mir	nimum of 0.6 m (2 f	t) above any sedimen	t accumulated at	the well botton	٦.	Inst-	Control	
(2)	Notes: (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom. (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, V,=n*(r*)*L in mL, where r (r=D/2) and L are in cm. For Imperial units, V,=n*(r*)*L* (2.54)*, where r and L are in inches (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min. (4) Purging will continue until stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs. (5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.											
(5)	stabilizing), No. of Well Screen Volumes Purged VP/Vs. 5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm. Start Ryl C 1306											

CRA 200010 (2) - Form SP-09 - Revision 2 - April 1, 2009

SAMPLE TIME 1430 M SAMPLE 1D#WG-18036-040115-SG-011 MONITORING WELL RECORD FOR LOW-FLOW PURGING Project Data: Project Name: VIACOM SEMI - ANNUAL Date: 4(1)(15)

Ref. No.: 18036 - 2014 Personnel: SG Monitoring Well Data: Well No.: MW-31 Saturated Screen Length (m/ft): Vapour PID (ppm): Depth to Pump Intake (m/ft)(1): Measurement Point: Well Diameter, D (cm/in): Constructed Well Depth (m/ft): Well Screen Volume, V_s (L)⁽²⁾; Measured Well Depth (m/ft): 5.01 Initial Depth to Water (m/ft): Depth of Sediment (m/ft): Drawdown Volume No. of Well Depth to from Initial Pumping Screen Volumes Purged, Vp Turbidity DOpHORP Water Water Level" Temperature Conductivity Rate Purged " (111V) °С (mS/cm) NTU (mg/L) (m/ft)(m/ft)Time (mL/min) ±10 mV ±0.005 or 0.01 ±10 % ±10 % ±0.1 Units Precision Required (5): ±3 % 10.28 0.41 10,9 INST CONTROL #&

YSI-GSHOWZIZ

WIL METER-NFOWNS

TURBIDIMETER-GSHOWIGZ (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom. (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, V_s=π*(r')*L in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi^*(r^2)^*L^*(2.54)^3$, where r and L are in inches (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min. (4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs. For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

START PURGE @ 1400 Dane) Eyr

BNIA Post-closure Monitoring June 18, 2015

Project # 18036-2014

(QSF-251D)

FIELD DATA RECORD FORM METER, WATER LEVEL

	o aboarding decade iict.	,		
FIE	LD PROCEDURE BEFORE USE:			
				Check when complete
0	Check for broken or missing parts.	- •		
0	Check battery			4
0	Check operation of buzzer.			
0	Check operation of signal light.	•		
0	Test probe in water to ensure unit operates,	, both visually and a	audibly.	
	Check cable.			
	יין בעני איני איני איני או איני אוני איני איני	o material de matematica de la matematic	and a mark of a	
,	,			
- 1				

Filing: Field File

· Signature:

Dave Juguer

Date: 6 · 18 · 15	Reference No. <u>18036-2014</u>
WATER LEVEL MEASUREMENT EQU	IPMENT AND SUPPLY CHECKLIST
<u>INSTRUMENTS:</u>	
☐ Water level indicator ☐ Steel Tape	
Oil/Water Interface Probe Air Monitoring Equipment	
An Montoring Equipment	·
<u>SUPPLIES</u>	PERSONAL PROTECTIVE EQUIPMENT:
Foil Tyveks (assorted sizes and types)	
Paper towels	Latex gloves
Decontamination Fluids	Hard hats/liner(s)
Decontamination Funds 2_Propanol	Eield overboots
Deionized water	Work gloves (cotton and chemical resistant)
Hexane (pesticide grade)	Safety glasses/or side shields on
☐ Methanol (pesticide grade)	OSHA-approved prescription lenses
Other	First Aid Kit
Trash bags	☐ _Respirators
Plastic spray bottles	Check Health and Safety Plan
DOGWICE VEATURE	
<u>DOCUMENTATION</u>	
☐ Well logs	,
Notebook/Field book	
Photolog	
☐ Site pass/badge	•
Previous well logs/previous historical well data	
☐ Site map	
Blank well data forms	
MISCELL	ANEOUS:
	56 / 4/1/11
Well Cap Keys	Pen/pencil/indelible marking pen
Bolt cutters	Tool box
Camera/film	Spare locks/keys
Knife	On Site Transportation (all Terrain
Spare batteries for instruments	Vehicle/Snowmobiles)
Lock deicer (winter)	
·	
Completed by: Aach Gera	Date: <u>6 - 18 - 15</u>
CRA	

Date: 6 18 15	Reference No. <u>18036 - 2014</u>
GROUNDWATER SAMPLING EQUIPMI	ENT AND SUPPLY CHECKLIST
<u>EQUIPMENT</u>	<u>INSTRUMENTS</u>
Required Sampling Equipment (as per Work Plan or QAPP)	Water level indicator Thermometer * pH meter * Conductivity probe * Turbidity meter HNu/OVA/Microtip Air Monitoring Equipment
<u>SUPPLIES</u>	DOCUMENTATION
☐ Gasoline can/gas ☐ Polypropylene rope ☐ Aluminum foil ☐ Paper towels ☐ pH buffer solution(s) ☐ Conductivity standard solution(s) ☐ Decontamination Fluids ☐ (As per Work Plan and QAPP) ☐ Sample jars (extra) ☐ Sample jar labels (CRA) materials ☐ Cooler(s)/ice packs/packing materials ☐ Trash bags ☐ Sample preservatives ☐ Plastic spray bottles ☐ Plastic basin or pan ☐ Sample filter (On line or External Filter) ☐ Polyethylene sheeting ☐ First Aid Kit ☐ Personal Protective Equipment (as per HASP)	☐ Chain of Custody Forms ☐ Well logs ☐ Notebook/Field book ☐ Photolog ☐ Site pass/badge ☐ Federal Express manifests ☐ Previous well logs/previous historical well data ☐ Site map ☐ Blank well data forms
<u>MISCELLANEOUS</u>	
Well Cap Keys Bolt cutters Camera/film Knife Spare batteries for instruments Lock Deicer (winter)	Reinforced packing tape Pén/pencil/indelible marking pen Tool box Spare locks/keys On Site Transportation (all Terrain Vehicle/Snowmobiles)
Completed by: Dare Jayra	

Date: _	6-23-15 Reference No.: 18036-2014
	PROJECT PLANNING COMPLETION AND FOLLOW-UP CHECKLIST
PRIOR	PLANNING AND COORDINATION:
	Confirm well numbers, location and accessibility Review of project documents, Health and Safety Plan (HASP), sampling Quality Assurance/Quality Control (QA/QC) and site-specific sampling requirements Historical well data; depth, pH, performance and disposition of purge water Site access notification and coordination Coordination with laboratory through CRA Chemistry Group Procurement, inventory and inspection of all equipment and supplies Prior equipment preparation, calibration or maintenance All utilities located and approved
FIELD	PROCEDURE:
	Instruments calibrated daily Sampling equipment decontaminated in accordance with the QAPP Field measurements and sampling details logged in appropriate field books or an appropriate field form Well volume calculated and specified volumes removed Specified samples, and QA/QC samples taken per Quality Assurance Project Plan (QAPP) Samples properly labeled, preserved and packed Sampling locations secured or completed according to Work Plan Sample date times, locations and sample numbers have all been recorded in applicable log(s) Samples have been properly stored if not shipped/delivered to lab same day Samples were shipped with complete and accurate Chain of Custody Record
FOLL	OW-UP ACTIVITIES:
	Questionable measurements field verified Confirm all samples collected All equipment has been maintained and returned Sampling information reduced and required sample keys and field data distributed Chain of Custody Records filed Expendable stock supplies replaced CRA and client-controlled items returned (i.e., keys) Arrange disposal of investigation generated wastes with client Confirm all samples collected
Comp	pleted by: Live year Date: 6-23-15

Via com (Buffalo Airport) 18036-2014

DAILY LOG

6/18/15 Partly Sunnx 69-75°F
6/18/15 Partly Sunnx 69-75°F C808 DJT, SG on-site waiting for excert to
sit in secure area
0820 escort arrived drive out and set of
on MW 34D Perge & Sample
TOP Blank = TB-18036-061815-DTT 2×40ml
0955 Setup on MW30 purge & Sample.
1040 Setup on Mw 33 purge & Sample
1040 Setup on Hw33 parge & Sample
1300 Meet SG @ MWS purge i Sample (DSF)
1454 off-site
Land year
*

DAILY LOG

6/18/15 YSI PRO SERIES # NFOTGOZ CALABRATION DSING PH 4.00 ALTO
CAL SOLUTION LOT# C577654 EXP. 3/16
PH 4.00 BEFORE 4.05 AFTER 4.00
COND 449 BEFORE 4.30. AFTER 4.49
00% BAR. 745.0 95.690 READING 8.15
HORIBA U-22 #NFO3583 CALABRATION USING SAME AS ABOVE CAL SOLUTION
PLA.00 BEFORE 4.71 AFTER 3.99
COND 4.49 BEFORE 4.57 . AFTER 4.50
DO % BEFORE 8,00 AFTER 8,23
0807 ONSITE SGLOGT WEATHER-CLOUDY, CHANCE OF RAIN 71°F WINDS S SMPH
GET AIRPORT ESCORT FOR TRAVELIAGE ON TARMAC, TAILGATE SAFETY MEETING
0835 SET UP ON MW-34 PURBE+ SAMPLE
METHOD-LOW FLOW USING MASTERFLEX PERISTALTIC PLMP W/ DEDICATED TUBIOS
0934 SET UP ON MW-35 PURGET SAMPLE
1044 SET UP ON MW-2 PURBEY SAMPLE
1150 SETLIP ON MW-28 PURGET SAMPLE
1250 SET UP ON MW-5 PURGEY SAMPLE
1350 SET UP ON MW-31 PURGEL SAMPLE
1441 GW SAMPLING COMPLETE, PLIT BUCKETS OF PURGE WATER
IN OHM BUILDING
1454 OFFSITE
Lhael Eyra
10021 2011
10021- 2011

18036-2014.

FIELD DATA RECORD FORM METER, TURBIDITY (PORTABLE) HACH 2100P

(QSF-421D)

ntrol No.: 69106192 te: 61815 er: SGIDT	Project No.: Project Name: Location:	18036-2014 VIACOM YALY GW SAMPLING
Iditional Equipment Control Numbers	and Descriptions:	BUSTALO AIRFORT SECIS, ECONTULOTO A4ZA7 EXF
		-
ELD PROCEDURE BEFORE USE:		
Do Not Calibrate in the Field - In-l	louse Calibration Only by	r Field Equipment Manager .
	. *	· Check when completed
Check kit contents;	· · · · · · · · · · · · · · · · · · ·	
• Meter ·		
 Low 0-10, medium 0-100, high 0-100 	0 standards	
 Extra AA batteries 	•	<u> </u>
 Sample vials 		. 🗸 .
Test and record Gelex standards:		
· ©	Selex Standard	Mefer Reading
· Low 0.40 20 · ·	20	
Medium 0-100	100	106
• High 0-1000	800	. 1746
	•	
Note: Condensation on outside of s	cample-bottles affects me	fer readings.

Signature:

FIELD DATA RECORD FORM METER, TURBIDITY (PORTABLE) HACH 2100P

(QSF-421D)

ser: SGDJT		1 YALY GW SAMPLIA
dditional Equipment Control Numbers a	U LOTH AA252 BYP. DEC 15',	800 NTU LOTH A4247 BY
		•
IELD PROCÈDURE BEFORE USE:		
Do Not Calibrate in the Field - In-F	louse Calibration Only by Field I	Equipment Manager .
		Check when completed
Check kit contents;		
• Meter ·		
 Low 0-10, medium 0-100, high 0-1000) standards	
 Extra AA batteries 		4
 Sample vials Test and record Gelex standards: 		
	🦗 Gelex Standard	Meter Reading
o Low 0-10	20	22:1
• Medium 0-100	100	106
o High 0-1000	800	81/
Note: Condensation on outside of s	ample bottles affects meter read	ings.

Signature:

VIACOM QUARTERLY WATER LEVELS

Date: 6-18-15

Crew: DJT, SG

Water Level #: NF06117

Well ID	Time	Water Level	PID
MW-32	1155	0.96	
MW-2	1050	6.70	
MW-28	1150	5,76	
CSMH-3		NA	
MW-5	1250	2,30	
CSMH-2	Nation of the last	NA	
MW-31	1355	3.32	
MW-30	0957	3.32	
CSMW-1		NA	
MW-34	ට ළ3පි	2.90	
MW-34D	<u>0837</u>	3.38	
MW-33	1041	5,02	
MW-35	0935	12.90	

NOTES:			
		-	
	See House		
Carlotte Car			
		West of the second seco	

Project Name: BNIA Quarterly Post-closure Mo			e Monitoring	_	Date:		118/15		-		
	-		018036-2014		_	Personnel:	SG			-	
Monitoring W											
	Well No.:		W-31			eter, D (inches): olume, V_s (L) $^{(2)}$:		2		-	
	urement Point:		Well Riser					1,32		- -	_
	Vell Depth (ft):			•		m to water (11): Well Condition:				-	
Measured V	Vell Depth (ft):			•	General	wen Condition:				- =	
Sampling Dat											
			14815-86-01		Chain o	of Custody No.:				_	
	Sample Time:		35	•		Parameters:	VOCs	Metals		-	
MS	S/MSD or Dup_ Pumping Rate	Depth to Water	Drawdown from Initial Water Level ⁽³⁾	Temperature	DO	Conductivity	pΗ	ORP	Turbidity	Volume Purged, Vp	No. of Well Screen Volume
Time	(mL/min)	(m/ft)	(m/ft) recision Required :	° C ±3 %	(mg/L) ±10 %	(mS/cm) ±3 %	±0.1 Units	(mV) ±10 mV	NTU ±10 %	(L)	Purged (4)
Start Purge										_	1
1404	80	3.77	0.45	20.1	0/0/0	14.59	nog my	-207.0	35.5		
1207	108	C 119	217	18.0	0.00	10.92	7.1	-18CA	15.4		
1429		5,94	7.62	18.1	0.20	10.86	7.70	-188.2	10.8		
434		6.39	3.07	18.3	0.28	10.81	7.68	-191.7	7.70		
											ļ
		- Augustonia								<u> </u>	ļ
											
A											
1/6/30:50											
WATER CONTRACTOR OF THE CONTRA											
Comments:									Iustr	ument Control N	umbers
The well screen v	will be placed at the	d on a 5-foot scr	een length (L). For	Imperial units, Vs	s=π*(r´)*L* (2.54)´	, where r and L are	in inches	water Level Meter			
Purging will con- urbid and appea	rom the initial wate tinue until stabiliza urs to be clearing, or of Well Screen Volu	tion is achieved unles s stabiliza	or until 20 well scre tion parameters are	en volumes have	been purged (unl	less purge water rei	manis visuany		8SH061		ę.

	Project Name:	BNIA Ouar	terly Post-closure	Monitoring		Date:	6-18-	15			
	-		018036-2014		_	Personnel:					
Monitoring W	ell Data:				_						
1101110	Well No.:	MW	7-34 D		Well Diame	eter, D (inches):	4 inch				
Meast	:rement Point:		Vell Riser	1		olume, $V_s(L)^{(2)}$:					_
Constructed V	Vell Depth (ft):	34	1.34		Initial Dept	th to Water (ft): _	3,38				_
Measured V	Vell Depth (ft):				General V	Vell Condition: _		· · · · · · · · · · · · · · · · · · ·			
Sampling Dat	а										
1. 0		WG-18036-a	61815 - DJT- 01	ol .	Chain c	of Custody No.:	488	226			
	Sample Time:	094	10			Parameters:	VOCs	Metals			
MS	/MSD or Dup	MS M									
Time	Pumping Rate (mL/min)	Depth to Water (111/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	p H	ORP (mV)	Turbidity NTU	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Start Purge	0842		recision Required:	±3 %	±10 %	±3 %	±0.1 Units	±10 ntV	±10 %		
0849	7,4			16.94	1.50	0.178	5.87	- 35	13.4		
0854				16-66	0.00	0.165	5,95	-122	16.4		
0859	100	4,28	0,90	16.95	0.00	0.171	6-23	-164	9.71		
0904		4.38	1,00	17.23	0.00	0.162	6-63	-710 -219	8.66		
0909	100	4.55	1.11	17.07	0.00	159	6.53	-246	7.29		
<u> </u>	104	4,88	1.50	17.16	0.00	0157	6.65	7261	7.91		
0924	191	5.12	1.74	1664	0.00	0.156	6.77	-272	7.57		
0929				16.95	0.00	0.157	6-86	-276	7-60		
0939				17.21		0.154	6-95	-280	7.65		
				` .							
			<u></u>						Inefr	ment Control N	umbers
Comments:	pa				1:	lated at the ru	tall bottom	w Water Level Meter	1150		
The well screen	olume will be base	ed on a 5-foot scr	een length (L). For ot exceed 0.3 ft. The	Imperial units, V:	s=π*(r^)*L* (2.54)*	ccumulated at the w , where r and L are i 500 mL/min.	in inches.	i-parameter mete	115026	583	
Purging will con	inue until stabiliza	ation is achieved	or until 20 well scre	en volumes have	e been purged (unl	less purge water ren bilization criteria an	nains visually d appear to be	Turbidimete	NF05	040	
turdici and abbea	из по пе спеятице, о	i miness staniniza	more heremiterers are	, rury rug oughly			11			ă	

Start Pupp @ 08-12

			. <u>MC</u>	NITORING	WELL RECO	RD FOR LOW-I	FLOW PURG	ING			
Project Data	•										
	Project Name:	BNIA Qua	rterly Post-closure	Monitoring	_	Date:					
	Ref. No.:		018036-2014		-	Personnel:	D3 (-	
Monitoring V	Vell Data:										
	Well No.:		<u> </u>			eter, D (inches):				-	_
	surement Point:		Well Riser	,	Well Screen Vo	olume, V_s (L) ⁽²⁾ : th to Water (ft):	7	37		-	
	Well Depth (ft):					Well Condition:		J 6400		- =	_
Measured '	Well Depth (ft):		<u> </u>	•	General	Wen Condition.					
Sampling Da	CONTRACTOR OF THE PROPERTY OF						492	2 <i>C</i> -		3	
	_		01815 -DJT -00	3	Chain o	of Custody No.:		Metals		-	
	Sample Time:		<u>30</u>			Parameters:	VOCS	Metais		-	
M	S/MSD or Dup	<u> </u>	Drawdown							Volume	No. of Well
	Pumping Rate	Deptlı to Water	from Initial Water Level ⁽³⁾	Temperature	DO	Conductivity	pH	ORP	Turbidity	Purged, Vp	Screen Volumes
Time	(mL/min)	(111/ft)	(m/ft) Precision Required :	**C	(mg/L) ±10 %	(mS/cm) ±3 %	±0.1 Units	(111V) ±10 111V	NTU ±10 %	(L)	Purged (4)
Start Purge	1002					0.718	6.73	1-192	19.4		
1017	100	5,21	1,24	16.82	0.00	0.725	6.77	-203	13-1		
1017	700_	5,97	2.65	15,70	0,00	0723	6.79	-207	8.10		
1027				15,94	0.00	0722	682	-210	6.46		
				,							
L				<u> </u>	<u></u>		J		Tuelm	ument Control N	amhers
Comments: Notes:								onneg .	1150	VIII.	
(1) The pump intak (2) The well screen	e will be placed at t	the well screen m	iid-point or at a min een length (L). For	imum of 2 ft abo Imperial units, V	ve any sediment a s=π*(r*)*L* (2.54)*	ccumulated at the w , where r and L are	vell bottom. in inches.	Water Level Mete		6117	
(3) The drawdown	from the initial wal	ter level should r	ot exceed 0.3 ft. The	e pumping rate sl	hould n ot exceed (500 mL/min.	Mul	ti-parameter mete	1 NF03	<u> 583</u>	
(4) Purging will contain turbid and appe	ears to be clearing, o	or unless stabiliza	ation parameters are	e varying slightly	outside of the sta	bilization criteria ar	nd appear to be	Turbidimete	NEOS	5040	
stabilizing). No	o, of Well Screen Vo	lumes Purged= \	/p/Vs.					Signatur	· Nabl	1 Ga	

Project Name:	BNIA Quai	rterly Post-closure	Monitoring	-	Date:	6.18.1	5	Journal of the Control of the Contro	-	
Ref. No.:		018036-2014		-	Personnel:	<u> </u>			-	
Ionitoring Well Data:										
Well No.:		W-33	7		eter, D (inches): olume, V _s (L) ⁽²⁾ :		2		-	
Measurement Point:		Well Riser	,	ven Screen vo	th to Water (ft):		07		- -	_
onstructed Well Depth (ft):					tn to vvater (ft): . Well Condition:				· <u> </u>	
Measured Well Depth (ft):				General v	wen condition:				- =	_
ampling Data							- A		-	
Sample No.:	WG-18036 - ₫	6815 -25T-00	6005	Chain o	of Custody No.:				-	
Sample Time:	1130	<u> </u>			Parameters:	VOCs	Metals		-	
MS/MSD or Dup Pumping Rate Time (ntl/min) Start Purge	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft) Precision Required:	Temperature ° C ±3 %	DO (111g/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volum Purged ⁽⁴⁾
1053 96	5,85	0.83	17:10	5.18	1,36	6.93	-35	12.9		
050	6.37	1:35	16.79	0.89	1.37	7.03	-50	4.68		
103 100	7.02	2.00	16-61	0.52	1, 38	7.08	-56	2.76		
1108	7.46	2.44	16.73	0.35	1.38	7-11	-59	2-20		
113 96	7.97	2.95	1651	0.34	1:39	7.14	-59	1.81		
118	8.43	3.41	16-97	0.23	1.38 1.38	7.16	-59 -58	3.96		
123 80	9,09	4.07	17.11	0.18	1,38	7.21	-57	2.29		
120			16-11			1:01	- 8			
										<u> </u>
										1
Comments:							•	Instr	ument Control N	umbers
he pump intake will be placed at tl he well screen volume will be base he drawdown from the initial wate	d on a 5-foot scr	reen length (L). For	Imperial units, Vs	s=π*(r²)*L* (2.54)°	, where r and L are	in inches.	Vater Level Mete i-parameter mete	1:-076		

			MC	NITORING	WELL RECO	RD FOR LOW-J	FLOW PURG	<u>ING</u>				
Project Data:							2 (0)	-				
	-	Project Name: BNIA Quarterly Post-closure Monitoring									-	
	Ref. No.:		018036-2014		-	Personnel:	DIL			-		
Monitoring V	Vell Data:				No. The second reading of the second reading reading reading of the second reading readi			žovanija izvojej za provincija i				
	Well No.:		N-32			eter, D (inches):		2		-		
	urement Point: _		Well Riser			olume, V _s (L) ⁽²⁾ :		G/		- =	_	
	Well Depth (ft):		4,41		_	th to Water (ft):		7. 16		· =		
Measured \	Well Depth (ft): _				General	Well Condition:				- =	_	
Sampling Da	ta						. 10 0	27		<u></u>		
			1815 -DJT-00	7.	Chain o	of Custody No.:				-		
	Sample Time:		<u> </u>			Parameters:	VOCs	Metals		-		
M: Time	S/MSD or Dup Pumping Rate (mL/min)	Depth to Water (111/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temperature ° C	DO (111g/L)	Conductivity (mS/cm)	pН	ORP (mV)	Turbidity NTU	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾	
Start Purge	1200		recision Required:	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %			
1207	80	1.83	0.87	17.85	1.42	2.83	7.02	-179	6.74			
1212	104	2.33	1.37	17.00	0.00	2.86	7.05	-194	8.51			
1217	92	2.95	1,99	16.41	0.00	2.84	7,08 7.08	-204	7.11			
1222				16.47	0,00	2.84	7.00	200	7.89			
										<u> </u>		
Comments:								_	lnstr	ument Control N	umbers	
Notes: (1) The pump intak (2) The well screen (3) The drawdown	volume will be base from the initial wate	d on a 5-foot scr er level should n	een length (L). For ot exceed 0.3 ft. Th	Imperial units, V: e pumping rate sl	s=π*(r^)*L* (2.54)° nould not exceed (, where r and L are 500 mL/min.	in inches. Mul i	Water Level Mete :i-parameter mete	3/0			
(4) Purging will cor turbid and appe stabilizing). No	ntinue until stabiliza ars to be clearing, or . of Well Screen Vol	r unless stabiliza	tion parameters are	e varying slightly	outside of the sta	bilization criteria an	ad appear to be	Turbidimete Signatur	/ \	5040	Hen	

			<u>MC</u>	ONITORING	WELL RECO	RD FOR LOW-	FLOW PURG	GING			
Project Data						Data					
	Project Name:	BNIA Qua	rterly Post-closur 018036-2014	e Monitoring		Date: Personnel:		112			
75 10 1 7			010030-2014		_	1 croomici.					
Monitoring V	vell Data: Well No.:	M	W-34		Well Diam	eter, D (inches):	, por expression described	2			
Meas	wen No surement Point:			-		folume, V_s (L) ⁽²⁾ :					_
	Well Depth (ft):			-		oth to Water (ft):		.90		<u> </u>	_
	• , ,			- 	-	Well Condition:		CCC			
Sampling Da				-							
tray or production of the second	CONSTRUCTION OF THE PROPERTY AND THE PARTY OF THE PARTY O	: WG-18036-¢	101815-SG	· 002	Chain	of Custody No.:	: 48.	226			
	Sample Time:			_		Parameters:		Metals			
M	S/MSD or Dup			_							
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ^(s) (m/ft) Precision Required:	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Start Purge			-		£10 %	13 70			210 /0		1
0849	102	3.80	0.90	15,1	193	0.79	7,06	101.7	133		
0859	100	4.76	1.80	15.3	0.71	0.96	1.25	1110.2	0.75		
0904		5.20	2.30	15,4	0.72	0.95	7.36	97.3	1.18	***************************************	
0909		SIUS	2.75	15:7	0.73	0.95	7.44	930	1.460		
0914	100	5,99	3.09	15,8	0.75	0.45	7.40	91,6	L04_		

Comments:								_	Instru	ment Control N	umbers
The well screen The drawdown Purging will cor turbid and appe	volume will be bas from the initial wa ntinue until stabiliz ars to be clearing, o	ed on a 5-foot scr ter level should n ation is achieved or unless stabiliza	een length (L). For ot exceed 0.3 ft. The or until 20 well scre tion parameters are	Imperial units, V e pumping rate s een volumes have	's=π*(r^)*L* (2.54)° hould not exceed e been purged (un	accumulated at the v ', where r and L are 600 mL/min. dess purge water re abilization criteria au	in inches. Mu l mains visually	Water Level Meter ti-parameter meter Turbidimeter	791 - NS	-07602	9
stabilizing). No	. of Well Screen Vo	iumes Purged= V	p/vs. START	- RIRGE	EC 084	12		Signature	Shaya	2 Nan	MV_

		<u>MC</u>	ONITORING	WELL RECO	RD FOR LOW-	FLOW PURC	<u>GING</u>		A CONTRACTOR OF THE PROPERTY O	NHT
Project Data:		. 1 5 . 1			Data	21/21/20/20/20/20/20/20/20/20/20/20/20/20/20/	ilale			7-2
Project Nam	e: BNIA Quar o.:	terly Post-closur 018036-2014	e Monitoring		Date: Personnel:		4/18/15			
Monitoring Well Data:	···	018036-2014		- .	i ersonner.	, ,			-	and the same of th
	o.: M\	N-35		Well Diam	eter, D (inches):	A SULL STREET, SULL STREET, SURL STREET, SUR	2			
Measurement Poin		Vell Riser	-		olume, $V_s(L)^{(2)}$:				- _	<u> </u>
Constructed Well Depth (f		0.3	-	Initial Dep	oth to Water (ft):		2,90		_ =	_
Measured Well Depth (fi				General `	Well Condition:	/B				
Sampling Data										
Sample No	o.: WG-18036- C	01815-56	-004	Chain	of Custody No.:	-	726		_	
Sample Tim		010	-		Parameters:	VOCs	Metals		_	
MS/MSD of Du	p/W6-1803	Drawdown	-S6-00U	1010						
Pumping Rate	Depth to Water	from Initial Water Level ⁽³⁾	Temperature	DO	Conductivity	pΗ	ORP	Turbidity	Volume Purged, Vp	No. of Well Screen Volumes
Time (mL/min) Start Purge	(m/ft)	(m/ft) recision Required :	° C ±3 %	(mg/L) ±10 %	(mS/cm) ±3 %	±0.1 Units	(mV) ±10 mV	NTU ±10 %	(L)	Purged (4)
0948 100	1250	0.100	14.0	0.89	0.490	9 -1	-178.3	14.7		
0953	14.08	1.18	14.4	0.69	0,485	7.74	-200,8	10.0		
0958 100	14.50	1.00	14,4	0.60	0,486	7.7A	-204.9	9.94		
1003	14,93		14.7	0.04	0.485	7.75	-2053	6.05		
1008	15.35		14.8	0,00	0.486	1.15	-20514	5/47		
Comments:								Instr	rument Control N	umbers
otes:) The pump intake will be placed a ₎ The well screen volume will be b	t the well screen mi	d-point or at a min	simum of 2 ft abo	ve any sediment a	ccumulated at the v	vell bottom.	Water Level Meter	NFOL	118	
) The drawdown from the initial w	ater level should no	ot exceed 0.3 ft. The	e pumping rate si	hould not exceed	600 mL/min.	Mu	lti-parameter meter	YSI NI	707U0Z	A
 Purging will continue until stabil turbid and appears to be clearing 	, or unless stabiliza	tion parameters are	e varying slightly	outside of the sta	bilization criteria ar	nains visually nd appear to be	Turbidimeter	BSH 061	92	
stabilizing). No. of Well Screen V	olumes Purged= V	P/Vs. STAF	et Pur	CEC O	441		Signature	Say	- Mai	dner

Project Name:	BNIA Quar	terly Post-closur	e Monitoring		Date:		8/15			
Ref. No.:		018036-2014			Personnel:		7			
Monitoring Well Data:										
Well No.:	М	W-2			eter, D (inches):		2	MANAGEMENT AND THE STATE OF THE	<u>.</u>	
Measurement Point:		Well Riser		Well Screen Vo	olume, V_s (L) ⁽²⁾ :	***************************************			-	
Constructed Well Depth (ft):		6.5		_	th to Water (ft):		2.70		_	_
Measured Well Depth (ft):			•	General V	Well Condition:	<u> </u>	<u>00</u>		<u> </u>	=
Sampling Data						****				
Sample No.:	WG-18036-©	01815-SE	-008	Chain o	of Custody No.:	482	26	.,	9	
Sample Time:	113	O	•		Parameters:	VOCs	Metals		•	
MS/MSD or Dup Pumping Rate Time (mL/min) Start Purge	Depth to Water (m/ft)	Drawdown from Initial Water Level ^(s) (m/ft) recision Required:	Temperature °C ±3%	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Wel Screen Volun Purged ⁽⁴⁾
1100 108	7,50	0.80	15,1	1.37	11,16	6.85	-114,1	7.89		
1105	8.21	1.51	1510	0.89	11.11	U.84	116.7	8.88		
1110 106	8.78	2.05	14.9	0.74	10.97	0.85	-120.0	4.6A		
1170	9.81	2 11	14.8	0.02	10.09	6.86	-129.0 -133.6	11.77		
1125	10.40	3.70	12,9	0.58	10.02	6.85	-139.2	9.89		
3										
Comments:								Instru	ıment Control N	umbers
	1000 1000 1000 1000 1000 1000 1000 100		graf Conservation (spilon 1999) (1996) (spilon 1996) (spilon 1996) (spilon 1996)			olikanik asar wezin kankaz dikela kerebanik milijaren tuza	200	NFOLD		

START PUREE 1053

Turb. GSH 06192

During Date			MC	ONITORING	WELL RECO	RD FOR LOW-	FLOW PURC	GING			
Project Data	: Project Name	· BNIA Oua	nrterly Post-closur	e Monitorina		Date:	/ a	118/15		•	
	,	: DIVIA Qua		e Worldon in		Personnel:		9		-	
Monitoring V										-	
	Well No.	: M	IW-28	4	Well Diam	eter, D (inches):		2			
Meas	surement Point	: Top of	Well Riser	-		olume, V_s (L) ⁽²⁾ :				- =	
	Well Depth (ft)		20.5		_	oth to Water (ft):		76		- =	=
Measured '	Well Depth (ft)	•		_	General	Well Condition:		00		-	
Sampling Da	the second control of									 	
		: WG-18036-	201815-86-1	00	Chain	of Custody No.: Parameters:	V San	Netals		-	
М	Sample Time S/MSD or Dup		he desired	-		rarameters:	YUCS	iviciais		-	
Time Start Purge	Pumping Rate (mL/min)	Depth to Water (111/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft) Precision Required:	Temperature °C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
1200	100	10,02	0.26	15.8	0.93	8.81	7.30	-142.0	1.22		
1205	2	4.20	0.44	15.3	0.79	8.74	7.31	-164,4	0.51		
1210	104	10.35	0.59	15.6	0.79	8.70	454	-181,0	1.33		
1226		6.69		15.7	0.79	8.70	7.28	194,4	2.69		
				775							
Comments:									Instr	ument Control N	umbers
fotes: (1) The pump intak (2) The well screen (3) The drawdown (4) Purging will conturbid and appe	volume will be bas from the initial wa ntinue until stabiliz ars to be clearing,	sed on a 5-foot scr ter level should r zation is achieved or unless stabiliza	reen length (L). For not exceed 0.3 ft. Th l or until 20 well scro ation parameters are	Imperial units, \ e pumping rate s een volumes hav e varying slightl	√s=π*(r^)*L* (2.54)° should not exceed re been purged (un y outside of the sta	less purge water ren bilization criteria ar	in inches. Mu l nains visually	Water Level Meter ti-parameter meter Turbidimeter	YSI NF	92	4
ыанш <u>ын</u> ду. 190	. of Well Screen Vo	Junies Furgeus \	v P/ vs.	START I	RREE	رادان		Signature	Show	~21-10u	ANL\

Project Nam Ref. No		arterly Post-closur 018036-2014	e Monitoring	_	Date: Personnel:	<u></u>	18/15			
Ionitoring Well Data:										
Well No).:	MW-5		Well Diame	eter, D (inches):		2	2.000	<u>'</u>	
Measurement Poir		Well Riser	· -		olume, V _s (L) ⁽²⁾ :				- -	
onstructed Well Depth (f Measured Well Depth (f	·	23.5	- -	~	th to Water (ft): Well Condition:		30 00D		-	
ampling Data									<u> </u>	<u>-1</u>
Sample No		061815-SG-00	29	Chain c	of Custody No.:	<u> 483</u>	226		-	
Sample Tim		40			Parameters:	VOCs	Metals	Letter	-	
MS/MSD or Du Pumping Rate Time (mL/min) Start Purge	Depth to Water (111/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft) Precision Required:	Temperature °C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volume. Purged ⁽⁴⁾
300 68	2.80	0.50	19.2	0.82	1.87	7.74	38.7	0.94		
305	3.33	1.03	18.9	0.71	11.81	7.13	-40,0	143		
310 72	3.59	1127	18,4	0.19	1178	7.74	- 04:0	1.00		
320	1.58	2.28	19.1	0.72	1175	7.75	-24.60	1.97		
325 88	4.93	2.63	19,4	0.72	1175	7.75	-63.6	2.47		
330	5.18	2.88	19.7	0.75	1.14	774	-68.3	020		
000	<u> </u>			10.77		1.70	a land a	0.00		
omments:								Instr	ament Control Ni	ımbers
ne mump intake will be placed a	at the well screen i	mid-point or at a mir	nimum of 2 ft abo	ve any sediment a	ccumulated at the v	vell bottom.	mater Level Meter	NFOL	2118	
he well screen volume will be b he drawdown from the initial w urging will continue until stabil	ater level should	not exceed 0.3 ft. Th	ie pumping rate s	hould not exceed 6	00 mL/min.	Mul	ti-parameter meter	<u> </u>	F07602	

BNIA Quarterly Post Closure Monitoring September 10, 2015

Project # 18036.2014 Field F.Le

BNIA 14'Ly Post Closure Mondoring 18036. 2014

DAILY LOG CANOCZIA	
9-10-15 Calibrate YSI retur AF 07602 wit	
Auto cal. Solution Lot# C577654 exp. 3/2016	-
	-
pt: 4.00 3.97 4.00	~
Cond 4.49 4.42 4.49	-
DO 36 109.236% 50 96.6	→
0715 Dot on-site meet SG and our NFTA	escort
Mostly overcast 62-70°F.	
0740 Setup on MW-30 purge & Sample	- .
0855 Setop on MW-34D page & Sample 1000 Setop on MW-33 page & Sample	
1000 Set up on MW-33 parge & Sample	admitted of
1120 set up on MW-3Z prop & Sample.	
1255 Setup with SCI on MW-31 perpe & Sample	
clean up drop off purse water (37)	10.15
clean up drop off purge water (D)	-
	·.
	
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BNIA QUARTERLY GW SAMPLING

DAILY LOG

· · · · · · · · · · · · · · · · · · ·
9/10/15 YSI PRO SERIES # GSHO10212 CALABRATION LISING
PH 4.00 ALITO CAL LOTH
PH 4:00 BERORE 3.99 AFTER 4.00
COND 4.49 BEFORE 4.18 AFTER 4.50
DO BAR, 743.1 100% READING 7.91
01.50 ONSITE SG WEATHER- SUN/ CLOUDS 45-70°F WINDS NNE 5-10 MPH
GET ESCORT FOR TAXI ON TARMAC
0738 SET UP ON MW-35 PURGE AND SAMPLE LOW FLOW MINTED
TRIPBLANK-TB-18036-091015-86 (2)
0902 SET UP ON MW-34 PLIRGE AND SAMPLE
1005 SET UP ON MW-Z PURGE AND SAMPLE
1118 SET UP ON MW-28 PURGE AND SAMPLE
1215 SET UP ON MW-5 PIRGE AND SAMPLE
13/6 SET UP ON MW-31 PURGE AND SAMPLE
1404 SAMPLING COMPLETE CLEAN UP
1412 OFFSITE
·

18036-2014

1911915

Shaw Plandrer

	Project Name: _ Ref. No.: _	BNIA Quart	terly Post-closure 018036-2014	Monitoring	•	Date: _ Personnel: _		10.15		-	
Monitoring W	Vell Data:	Annie	and the second s								
	Well No.:	MW	-30			eter, D (inches): _		***************************************	······································	.	_
Meası	arement Point: _	Top of V	Vell Riser	V		olume, V _s (L) ⁽²⁾ :	250 1	9 7		- =	
Constructed V	Vell Depth (ft): _				_	th to Water (ft):_	5,0	32		- =	
Measured V	Vell Depth (ft): _				General V	Vell Condition: _				-	=
Sampling Dat	a										
	Sample No.: \	WG-18036-₫ĵ	1015' -DT-0	o i	Chain c	of Custody No.: _	482	229		-	
	Sample Time:	084				Parameters:	VOCs	Metals			
MS	MSD or Dup	*************									
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽⁵⁾ (m/ft) recision Required:	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volume Purged ⁽⁴⁾
Start Purge	6744							-1/0 /	35.6		
0804	92	8.36	3.01	1513	3.40	0.78	7.38 7.38	-178-7	21.5		
<u>७८७१ </u>	92	8.83 9.38	3.01	15.2	2-44	0-74	7-38	185.9	13.0		
05191		9.88	4.06	1512	3-94	0.71	7-39	-189-6	11:1		
0824	96	10.44	4.62	15.1	3.99	0-69	7.40	-183.7	7.48		
CB 29		11.02	5,20	19.9	2.77	0.590	7-34	-176-8	6.16		
0834	92	11.49	5,67	149	3.09	0.526	7.28	775.3	5,42		
<u>0839</u>		11.87	6.07	15:0	1.02	0.483	7-26	-172-6	5.32		<u> </u>
C1944		11.88	6-06	15.1	0.62	0.448	7-25	-170.8	5,53		
								 		. ,	
·											
			-								
	1					<u> </u>		,	To also	ument Control N	umhers
Comments:	Learning with the second secon	and the second s	417								umibel3
The pump intake The well screen v	olume will be base	d on a 5-foot scre	en length (L). For	Imperial units, Vs	=л*(r^)*L* (2.54)°	ccumulated at the w , where r and L are i	n inches.	Water Level Meter			
The drawdown f	rom the initial wate	r level should no	ot exceed 0.3 ft. The	e pumping rate sh	ould not exceed 6	00 mL/min. ess purge water rem	Mu	lti-parameter meter			43.5000000000000000000000000000000000000
turbid and appea	ars to be clearing, or	unless stabilizat	tion parameters are	varving slightly	outside of the stal	oilization criteria and	d appear to be	Turbidimeter	NFOS	040	

Start Prog @ 0744

Project Data:											4154
	Project Name:		terly Post-closur	e Monitoring	_	Date:		2/15	-unh _{il}	-	State of Sta
	Ref. No.:		018036-2014		-	Personnel:	S	GARONE	<u> </u>		28 1 "
Monitoring W	ell Data:				yuusavaan saksayyy ayahabba OM suuruu soonyo					100	
	Well No.:			-		eter, D (inches):					
	rement Point:		Well Riser	_		olume, V _s (L) ⁽²⁾ :		1 10			_
	/ell Depth (ft):			-	_	th to Water (ft):		0.137		-	_
Measured W	/ell Depth (ft):			-	General \	Well Condition:		ed to the state of	,	- =	
Sampling Dat	а		W. W				-		and Magazine and a second	<u>. </u>	
	Sample No.:		91015 - GG - C	02	Chain o	of Custody No.:	4	8229		-	
- Carrier and Carr	Sample Time:			_		Parameters:	VOCs	Metals	<u> </u>		
(MS	/MSD or Dup	MS/H	<u>SD</u> Drawdown	-							
	Pumping	Depth to	from Initial	_	20	a 1	**	ORP	Turbidity	Volume Purged, Vp	No. of Well Screen Volume
Time	Rate (mL/min)	Water (m/ft)	Water Level [⇔] (m/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	pН	(mV)	NTU	(L)	Purged (4)
Start Purge	0749	P	recision Required:	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %	man and the state of the state	
0803	100	15.00	1.37	14:1	1.25	0.522	7.70	-173.1	1.73		
<u>0808 </u>	963	15,40	117/	14.2	1.05	0.525	7.85	-173.2	109		
0813		15.78	2.09	14.1	0.92	0.520	7.89	-180.3	11,00		
0010	91,	10.720	12.31	4.0	0.80	0.530	7,89	-1834	7.15		
2015 September 1		112116						The state of the s	An-all A magazin		
					_						
······································	-										

									Inst	rument Control N	umbers
Comments: s:				·	Walter Annual Control			1000001	(a-1000)	- 1775 - 27	
The nump intake	will be placed at t	the well screen m	id-point or at a mir	nimum of 2 ft abo Imperial units, V	ve any sediment a 's=π*(r^)*L* (2.54)~	ccumulated at the w , where r and L are	vell bottom. in inches.	Water Level Meter	4		
The drawdown for	om the initial wat	ter level should n	ot exceed 0.3 ft. Th	e pumping rate s	hould not exceed	600 mL/min.	Mu	lti-parameter meter		<u> Shois 21</u>	2-
Purging will cont turbid and appea	inue until stabiliza rs to be clearing, o	ation is achieved or unless stabiliza	or until 20 well scr tion parameters ar	een volumes have e varying slightly	outside of the sta	less purge water rer bilization criteria ar	nd appear to be	Turbidimeter	1 NFO 5	039	
	of Well Screen Vol							Signature	· Sonu	ns Hn	wanch

	Project Name:	BNIA Quar	terly Post-closure	Monitoring		Date:	9-10-15				
	Ref. No.:		018036-2014		_	Personnel:	Dilyran				
Monitoring V	Vell Data:										
	Well No.:	MW-	34D			eter, D (inches):				<u></u>	_
	urement Point:		Well Riser	•	Well Screen Vo	olume, V _s (L) ⁽²⁾ :	y _j me	a 9	A HAND TO SHARE THE SHARE		_
	Well Depth (ft): _						5.22				_
Measured V	Well Depth (ft):				General V	Well Condition:					
Sampling Da	ta									<u></u>	
	Sample No.:		1015 -DT-00	03	Chain o	of Custody No.:					
	Sample Time:	<u> </u>	<u>50</u>			Parameters:	VOCs	Metals			
M	S/MSD or Dup	·	Drawdown						ř.		
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	from Initial Water Level ⁽³⁾ (m/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	pН	ORP (mV)	Turbidity NTU	Volume Purged, Vp (L)	No. of Well Screen Volume Purged ⁽⁴⁾
Start Purge	<u> </u>		recision Required:	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %		
0910	100	5,49	0.27	16.6	4.06	0-167	8.17	-Z53.9	10.6		
0915		5.69	0.47	16-7	1.29	0-163	8-29	-281.9	13.0		
0920	to4	5.89	0.67	(6-8)	0.59	0.163	8-33	-2965 -300.7	12 - 1 9 - 78		
<u>0925</u>	100	6.03	1,00	17.2	0.40	0.163	8-34 8-34	-303.6	9.98	at a constitution of the c	
<u>C930</u> 0935	120	6.39	1, 17	17.0	0.29	0-163	8-35	-304.5	9.47		
04/10		6.63	1.41	17.1	0.26	0-163	8-35	-364.2	7.68		
0945	100			16-9	0.26	0-163	8-35	-306-1	8.43		
					_				and the second	* *************************************	
					 					· · · · · · · · · · · · · · · · · · ·	
Comments:									Instru	ment Control N	umbers
s:				(0.01.1	1:	1.1.1.1.1	-II hatta-		NEMPI	17	
The pump intak The well screen	e will be placed at tl volume will be base	ne well screen m d on a 5-foot scre	een length (L). For l	imum of 2 ft abo Imperial units, \	ove any sediment a /s=л*(r*)*L* (2.54)*	, where r and L are	in inches.	•		114	
The drawdown	from the initial wate ntinue until stabiliza	er level should n	ot exceed 0.3 ft. The	pumping rates	should not exceed 6	000 mL/min.		i-parameter meter	C3H 06304		

	Project Name: Ref. No.:	BNIA Quart	erly Post-closure 018036-2014	e Monitoring	-	Date: Personnel:		O/15 ARDNER			
Monitoring V	Vell Data:										
	Well No.:	MW.	34			eter, D (inches):					
Meas	urement Point:	Top of V	Vell Riser			olume, $V_s(L)^{(2)}$:		0 -			
	Vell Depth (ft):	· · · · · · · · · · · · · · · · · · ·		-	_	th to Water (ft):		<u>80 _</u>	340		_
Measured V	Vell Depth (ft):				General V	Well Condition:					
Sampling Da		No.	Andrew								
	Sample No.:		11015-St, -01	54	Chain o	of Custody No.:	۷	18229	-		
	Sample Time:		40	-		Parameters:	VOCs	Metals			
MS	S/MSD or Dup	NONE	Drawdown	-							
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	from Initial Water Level ⁽³⁾ (m/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Turbidity NTU	Volume Purged, Vp (L)	No. of Well Screen Volume Purged ⁽⁴⁾
Start Purge	0900		recision Required :	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %		
0914	108	4.69	0.89	16.7	2:52	0.91	7.84	-05.2	2.38		
5919		5,25	1,45	10.6	0.91	0.91	7.78	-89/	2.27		
0924		<u>6.08</u>	2.28	160.60	0.07	0.92		-100,9 -111 3	3, 13		
0929	92	6.48 6.90	3.10	16.9	0.59	0,93	7.78	-1157	2.210		
		10.10.				- Samuel					
			*								
.,											
							· · · · · · · · · · · · · · · · · · ·		-		
										<u> </u>	
2-1-0000-0										24222	
Comments:								SEEMAND	lnstru	ment Control N	umbers
S:	a will be placed at t	ha wall screen mi	d-point or at a mir	nimum of 2 ft abo	ve any sediment a	ccumulated at the w	vell bottom.	Water Level Meter	NEOLO	118	
The well screen	volume will be base	ed on a 5-foot scre	en length (L). For	Imperial units, V	/s=π*(r*)*L* (2.54)°	, where r and L are	in inches.	lti-parameter meter		100212	
Ine drawdown:	from the initial wat tinue until stabiliz	er ievei snouia na stion is achieved a	n exceeu U.S H. III or until 20 well cer	e hundring tate s	a been nurged (un	lees mirge water ten		Parameter meter	-15:	to the A beautiful front to Country	

	Project Name:	BNIA Qua	rterly Post-closure	Monitoring	_	Date: _		15		,	
	Ref. No.:		018036-2014		_	Personnel: _	D. Tyran	1			
Aonitoring V	Vell Data:	1									
	Well No.:	MW-	33			ter, D (inches): _					_
	urement Point:		Well Riser	7		lume, V _s (L) ⁽²⁾ : _	gara.	e2 (**2)	<u> </u>		_
	Well Depth (ft):					h to Water (ft):	3:6		w		_[
Measured '	Well Depth (ft):				General V	Vell Condition:					=
Sampling Da	and the same of th			The state of the s						<u> </u>	
			94015-DT-00	5	Chain o	f Custody No.: _	4822				
	Sample Time:		<u>0</u>			Parameters:	VOCs	Metals			
M <i>Time</i> Start Purge	S/MSD or Dup Pumping Rate (mL/min) l OO9	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽⁵⁾ (m/ft) Precision Required:	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volum Purged ⁽⁴⁾
iOl(o	80	6.0Z	0.80	18.5	4.09	1:30	7.83	-4.7	2.99		
1021	3-0-	6.52	1.30	18.5	1.04	1.30	7-83	-27.9	1.74		
1026	අීථ	6.96	1.74	18.4	0.69	1.30	7.82	740.0	2-31		
<u> 1031 </u>		7.42	2.20	18.5	0.63	1.30	7-81	-47.5 -51.6	1.34		
10-36 10 41	84	8,50	3-28	18.3	0.66	1.29	7-79	-52-6	2-25		
1046		9.00	3-78	11.9	0.59	1-28	7.79	-53.1	4.87		
1051	84	9.41	4.19	18-0	059	1.27	7.77	-55.0	3.10		
1056 <u></u>				(B-0	0.55	1-27	7-77	-55.6	5.89		
- Alman											
· · · · · · · · · · · · · · · · · · ·											
Comments:									Instru	ıment Control N	umbers
:	e will be placed at t	he well screen n	nid-point or at a min	imum of 2 ft abov	ve any sediment ac	cumulated at the w	ell bottom. V	Vater Level Meter			
The well screen	volume will be base	ed on a 5-foot sc	reen length (L). For not exceed 0.3 ft. The	lmperial units, Vs	s=л*(r^)*L* (2.54)° , nould not exceed 6	where r and L are 1 00 mL/min.	n inches.	-parameter meter			

	Project Name: _ Ref. No.:	BNIA Quari	erly Post-closure	Monitoring		Date: Personnel:		RDNER			
Monitoring W	-				_	•					
	Well No.:	MW-	2)	9999 -100 4-0-0-0-0-0-1-0-0-0-0-0-0-0-0-0-0-0-0-0-	Well Diame	ter, D (inches):		20020			
Meası	rement Point:		Vell Riser		Well Screen Vo	lume, V _s (L) ⁽²⁾ :				-	_
Constructed V	Vell Depth (ft):			•	_	h to Water (ft):		34			_
Measured V	Vell Depth (ft):				General V	Vell Condition:					=
Sampling Dat											
	Sample No.:	WG-18036-©′	71618 _ 36 _ 01	ole	Chain o	f Custody No.:	<u> </u>	8229			
	Sample Time:	110				Parameters:	VOCs	Metals			
MS Time Start Purge	/MSD or Dup Pumping Rate (mI/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽²⁾ (m/ft) recision Required:	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volume Purged ⁽⁴⁾
1020	104	7.99	0.625	16.6	1.67	10.00	7.03	-1825	1.38		
1025		8.40	1.12	16.5	3.02	10.76	7.04	-188.8	2.15		
1036		<u>9.07</u>	1.73	160.60	1.48	10.94	7.04	-198,1	2.86		
1035	104	3,49	7.00	10.5	6-10	1103	7.05	-188.7	130		
MAS		10.32	2.98	16.3	0.40	11.05	7.08	-181.4	0.59		
0.50		10.80	Assert State of State	16.2	0.50	11.10	7.07	-182.2	0.70		
1055	102	11.23		il.3	0.51		7.08	-180.7	1.08		
11100								<u> </u>			
ate and the state of the state									200	X, (x, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	
Comments:									Instru	ıment Control Nı	ımbers
The well screen v The drawdown f	olume will be base rom the initial wate inue until stabiliza	ed on a 5-foot scre er level should no ation is achieved o	en length (L). For of exceed 0.3 ft. The or until 20 well scre	Imperial units, \ e pumping rate : een volumes hav	ove any sediment ac /s=л*(r^)*L* (2.54)°, should not exceed 60 e been purged (unle	where r and L are 00 mL/min. ess purge water ren	in inches. Mul nains visually	 Water Level Meter ti-parameter meter		HO6217	} mod ^d

			MC	NITORING	WELL RECOF	RD FOR LOW-F	LOW PURG	ING			
Project Data			The state of the s	Accompany of the Control of the Cont							
	Project Name:	BNIA Quar	terly Post-closure	e Monitoring		Date: _	9-10				
	Ref. No.:		018036-2014		_	Personnel: _	D. Tyr	an			
Monitoring V	Vell Data:		OP 00 1000000000000000000000000000000000								
	Well No.:	MW	-32			ter, D (inches):_					
Meas	urement Point:	Top of V	Vell Riser		Well Screen Vo	lume, V _s (L) ⁽²⁾ : _		<u> </u>			
Constructed 1	Well Depth (ft):				Initial Dept	h to Water (ft):_	1.4	<u> </u>			=
Measured \	Well Depth (ft):			,	General V	Vell Condition: _					
Sampling Da	ta			545-547-535-534-535-534-535-534-535-534-535-534-535-534-535-534-535-534-535-534-535-534-535-534-535-534-535-5							
	Sample No.:	WG-18036- <i>ด</i> ร	11015 -DT- <u>a</u>	57	Chain o	f Custody No.:	48	229			
	Sample Time:	123	35	•		Parameters:	VOCs	Metals		•	
M	S/MSD or Dup	Do									
	Pumping	Depth to	Drawdown from Initial							Volume	No. of Well
Time	Rate (mL/min)	Water (m/ft)	Water Level ⁽³⁾ (m/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	pН	ORP (mV)	Turbidity NTU	Purged, Vp (L)	Screen Volumes Purged ⁽⁴⁾
Start Purge	1131		recision Required :	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %		- MACAGON - VI
1136	84	2.17	0.69	18.1	3.86	2.54	7.50	-195.0	784		
ll 41		2.63	1.15	18.3	0.80	2.50	7.51	-216.1	5.06		
1146	84	3-10	1.62	17.9	0.44	z.31	7.50	~ZZZ.4	2,55		
1151		3.50	2.02	18.1	0-34	2.14	7.48	-222.5	2.63		
1156	80	3.72	2.24	18.2	0.31	2.10	7.47	7223.8	3.27		
1201	CHO	4.02	2.57	18.0	©.33 ⊘.33	1,90	7.54	-227.0 -230.4	2.64		
1206	80	4.19	2.71	17.8	0.29	1.64	7.62	-253.6	12.5		
1216	76	4.40	3.10	17.8	0.3/	1.49	7.67	-236.Z	2.12		
1221	14	4.66	3.18	17.7	0.30	1.42	7.63	-236.7	2.20		
1226	72	4.76	3-28	17.7	0-29	1.33	7.67	-237.7	2.79		
1231	E Carino			17.8	6.28	1.20	7-67	-239-2	8.97		
									•		
Comments:	Blind Due	o WG-	<u> </u>	1015 D	T.009	Time	1235	_	Instru	ıment Control Nı	ımbers
Notes: (1) The pump intak				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		aumulated at the two	Il bottom I	" Vater Level Meter	N±06	117	
(2) The well screen	volume will be base	d on a 5-foot scre	en length (L). For l	Imperial units, Vs	я≃л*(r^)*L* (2.54)°,	where r and L are ir	n inches.	•			
(3) The drawdown (4) Purging will cor	from the initial wate itinue until stabiliza	er level should no tion is achieved o	ot exceed 0.3 ft. The or until 20 well scre	e pumping rate sh en volumes have	nould not exceed 60 been purged (unle	10 mL/min. ess purge water rema	M ult : ains visually	i-parameter meter			The second secon
turbid and appe	ars to be clearing, or	r unless stabilizat	ion parameters are	varying slightly	outside of the stab	ilization criteria and	l appear to be	Turbidimeter	WF050	40	
stabшzing). No	. of Well Screen Volt	unes rurgea= VI	γs.				get .	Signature			

Projec	t Name:	BNIA Qua	rterly Post-closure	e Monitoring		Date:		0/15			
]	Ref. No.:		018036-2014		_	Personnel:	S GAR	ROMER	WEST-1917-1917-1917-1917-1917-1917-1917-191		
Monitoring Well Da								w		3	
	Vell No.:		<u>- 28</u>	•		eter, D (inches):				-	_
Measureme	-		Well Riser	•		folume, $V_s(L)^{(2)}$:	- Ya	00		- =	_
Constructed Well De			The state of the s		-	oth to Water (ft):		101		- =	_
Measured Well De	epth (ft):				General	Well Condition:		1		. =	=
Sampling Data								2000	5-5	<u> </u>	
			71015-36-00	8	Chain	of Custody No.:		3229			
=	•	11.				Parameters:	VOCs	Metals		•	
Time (m.	or Dup mping Rate L/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft) Precision Required:	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volume Purged ⁽⁴⁾
1130 91	8	6.35	0.46	17.7	0.27	9.20	7.51	-251.9	1.92		
135		6.40	0.59	17.9	0.24	9,24	7.50	-243.2	1,61		
140		6,59	0.70	18.0	0.22	9.210	7.44	-240.7	1.40		
								_			
							V				
Comments:			· · · · · · · · · · · · · · · · · · ·						Instru	ument Control N	umbers
							11 1	Water Level Meter	MEDIAL		
he pump intake will be he well screen volume v	will be base	d on a 5-foot scr	een length (L). For	Imperial units, V	s=π*(r⁴)*L* (2.54)~	, where r and L are	in inches.	Water Level Meter	2.		
he drawdown from the	initial wate	er level should n	ot exceed 0.3 ft. The	pumping rate sl	hould not exceed 6	600 mL/min. less purge water ren		ti-parameter meter Turbidimeter		06212	

Project Data:			<u>MC</u>	NITORING	WELL RECO	RD FOR LOW-	FLOW PURG	ING		-	
	Project Name: _	BNIA Quar	terly Post-closure	e Monitoring		Date:		10/15			
	Ref. No.:_		018036-2014		_	Personnel:	S GA	RDNER	4444		
Monitoring W	ell Data:	a a	June 100								
	Well No.: _	Mw				eter, D (inches):				- _	_
	rement Point:		Vell Riser	•		olume, V_s (L) ⁽²⁾ : th to Water (ft):		1		•	_
	Vell Depth (ft): _					th to water (11): Well Condition:		1/96/		• =	
	Vell Depth (ft): _			• *	General	ven Condition.		W		-	
Sampling Dat	katura kan wasan kata kata kata ang kanana	WC 1000 C of		established in the control of the co	Chain	of Custody No.:	48	229			
	Sample No.: _ Sample Time:		1015-36-01		Cham	Parameters:	VOCs	Metals		•	
MS	/MSD or Dup					T diffille letter	, 0 05	11,000	A STATE OF THE STA	•	
Tíme	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level (3) (nt/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	pН	ORP (mV)	Turbidity NTU	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Start Purge	1220		recision Required:	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %	•	
1230	50	3.23	0.63	21.8	0.25	1.76	7.93	-162.4	4:12		
1235		3.67 3.95	1.07	21.9	0.24	11.73	7.91	-157.6	3.62		
1240		0,10		Landon's last	0.4.	1 / / /	1 low	11331/	17362		
						_					
								-			
Comments	J		1						Incfr	ument Control N	ımbers
The well screen v	olume will be based rom the initial wate	d on a 5-foot scre r level should no	en length (L). For ot exceed 0.3 ft. The	Imperial units, V e pumping rate s	's=π*(r^)*L* (2.54)° hould not exceed 6	ccumulated at the w , where r and L are 500 mL/min.	in inches. Mul	water Level Meter ti-parameter meter	NFOLDI	<u> </u>	
Purging will cont turbid and appea	inue until stabilizat	tion is achieved o unless stabilizat	or until 20 well scre ion parameters are	en volumes have	e been purged (unl	less purge water ren bilization criteria an	nains visually id appear to be	Turbidimeter Signature	NFO SO	39 D. Yau	dot

	Project Name: .		erly Post-closure	Monitoring	_	Date:	9/10	15	<u> </u>		
			018036-2014		_	Personnel:	S (GARDNER			
Monitoring W	Mary Commence of the Commence	8411 -	*> {		TAT-11 The	. Law D. /in-al-only					
Manag	Well No.: arement Point:		⊃ (Vell Riser			eter, D (inches): olume, V_s (L) ⁽²⁾ :		<u> </u>			_
	Vell Depth (ft):					th to Water (ft):		1.88	-0.0		
	vell Depth (ft): Vell Depth (ft):					Well Condition:		J 1 1 2 1 2 2 2		-	
Sampling Dat					,				Lil Amount		
Jumpung Due	and the state of t	WG-18036-0°	11015 - 3E - 0	11	Chain c	of Custody No.:	and the second s				
	Sample Time:	130	55			Parameters:	VOCs	Metals			
MS <i>Time</i> Start Purge	/MSD or Dup Pumping Rate (mL/min) 1324	Depth to Water (nı/ft)	Drawdown from Initial Water Level ⁽²⁾ (m/ft) ecision Required:	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volum Purged ⁽⁴⁾
1330	64	4,45	0.57	20.6	0.52	13.13	7.94	-191,5	17.60		
1335		4.8L2	0.98	20.9	0.33	12.75	7.90	-194.1	12.6		,
1340	Lolo	5.23	1.35	20,8 20,5	0.26	11.88	7,86 7,84	-192.7	8.70 5.57		<u> </u>
1343 1250		5.40		20.7	0.23	11.76	7,83	-189.7	4.25		
		0111			Const Change Kan Se		1 1 3 2 2 2				
		······									
		,						MARK		MARINA TO THE RESERVE	
											1
Comments:	politica de la constanta de la								Instru	ment Control N	umbers
The pump intake	will be placed at the	ne well screen mid d on a 5-foot scree	l-point or at a mini	imum of 2 ft abov Imperial units, Vs	ve any sediment ac ==л*(r^)*L* (2.54)~,	cumulated at the w where r and L are	rell bottom. in inches.	Water Level Meter			
The drawdown fi	om the initial wate	er level should no	t exceed 0.3 ft. The	pumping rate sh	ould not exceed 6	00 mL/min.	Mul	ti-parameter meter	<u>ysi Gsi</u>	406212	4
The well screen v The drawdown fi Purging will cont turbid and appea	olume will be base om the initial wate inue until stabiliza	d on a 5-foot scree or level should no tion is achieved o r unless stabilizati	en length (L). For l t exceed 0.3 ft. The r until 20 well scre ion parameters are	mperial units, Vs pumping rate sh en volumes have	s=л*(r^)*L* (2.54)~, nould not exceed 6 been purged (unle	where r and L are	in inches. Mul nains visually		YSI GSI	406212	lara

BNIA SITE QUARTERLY WATER LEVEL RECORD

100	Α	T	E
N 9	5-4	. д	F-

9-10-15

CREW

DJT, SG

INSTRUMENT Nos.

NF06117 NF06118

	GROUND	TOP OF CASING	DEPTH TO	WATER LEVEL	
	ELEVATION	ELEVATION	WATER	ELEVATION	
		(A)	(B)	(A-B)	
WELL NUMBER	feet AMSL	feet AMSL	feet	feet AMSL	COMMENTS
MW-2	692.16	691.81	7.34	684.47	
MW-5	688.21	685.93	2.60	683.33	
MW-28	689.26	688.27	5,89	682 - 38	
MW-30	695.54	694.81	5.82	688 99	
MW-31	688.46	687.22	3.88	683,34	
MW-32	711.37	710.71	1.48	709.23	
MW-33	713.34	712.50	5.22	707,28	
MW-34	703.81	702.93	3.80	699.13	
MW-34D	703.23	701.79	5.22	696.57	
MW-35	698.86	698.46	13-69	684.77	

CO	пип	46	N I T	rc
1.1.1	IVI	vir	INI	

SIGNATURE

(9)

BNIA

Post Closure Quarterly

Sampling

December 10, 2015

Project # 18036-2014 Field File

Viacom (Airport) 18036-2014 BNIA Post Closure YSI meter control # NF07602 12/10/15 Calibrate with a to cal solution Lot # C579417 exp. 7/2016 90.2% .96.1% DO (Ber 739.1.) PH 4.00 Cond 4.49 cloudy 44-55°F winds 0725 Heet NFTA escort head out to wells @ end of runway. KL sampling stormwater DJT = SG to Sample monitoring wells 0755 set up on MW34D prije & Sample Trip Blank = TB-18036-121015-DT 0900 Setup of MW30 Purge & Sample 1000 Set up on MW33 Purge & Sample 1058 Set up on MW32 Purge & Sample 1420 Drop off water @ Bldg

DAILY LOG

12/10/15 HOR	IBA W-22 # NFO7401 CAL	ABRATION USING	3 PH 4.00	
AUTO CAL LOTE	C579417 EXP. 7/16	•		
P4 4.00	BEFORE 4.70	AFTER.	4,00	
COND 4.49	BEFORE 4,49	AFTER	4.49	
	BEFORE 0:0	AFTER	0.0	
00	BEFORE 8.66	AFTER	8.54	
07120NSITE	SG WEATHER - OVERC	AST 47-5261	- WINDSSS-101	1PH
TAILBATE SAF	ETY MEETING, GET ESCO	ORT TO GO A	CROSS TARIMA	<u></u>
0755 SET 4	UP ON MW-34 PURGE AN	ND SAMPLE LO	au Flow	
0843 SET L	IP ON MW-35 PLIREE AND	SAMPLE		
	JP ON MW-2 PURGE AN			
	UP ON MW-5 PURGE AND			
1318 SET 1	JP ON MW-31 PURGE A	ND SAMPLE		
14260 SAM	PLING COMPLETE, OFF	SITE		
	' -			
	·			
				-
				•
	·			
*******			×96) 12	11

18036-2014

Shaw Plandow

VIACOM QUARTERLY WATER LEVELS

Date: 12/16/15 Crew: DJT /5G

Water Level #: NFGIT NFOGI18

Wallip	Time	Water Level	PID
Well ID	rime	VValer Level	I FID
MW-32	1059	1.37	
MW-2	1016	7.50	
MW-28	1105	5,95	
CSMH-3		NA	
MW-5	1218	2.67	
CSMH-2		NA	
MVV-31	1322	5.39	
MVV-30	0901	5.74	
CSMW-1		NA	
MVV-34	C800	3-77	
MW-34D	0800	5.18	
MVV-33	1000	5,40	
MW35	<i>0</i> 850	13.62	

NOTES:

18036-50- 2014

Davel Jagran

Monitoring Well Record for Low-Flow Purging (Form SP-09)

Project Data: Project Name: Via Com (Airport) Ref. No.: 18036-2014	Date: 12/10/15 CofC Personnel: D. Tyrero L/896	
Monitoring Well Data: Well No.: Vapour PID (ppm): Measurement Point: Constructed Well Depth (m/ft): Measured Well Depth (m/ft): Depth of Sediment (m/ft):	Saturated Screen Length (m/ft): Depth to Pump Intake (m/ft) ⁽¹⁾ : Well Diameter, D (cm/in): Well Screen Volume, V _s (L) ⁽⁴⁾ : Initial Depth to Water (m/ft): No. of Well	1
Drawdown	No. of Well	ĺ

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
			cision Required:	±3 %	±0.005 or 0.01 ⁽⁵⁾	±10 %	±10 %	±0.1 Units	-263		
0912	140	5.66	0,48	12.2	0.205	<u> 38</u>	0.79	7.20	1		
08/7	120	5,09	0.71	12.0	0-196	_2	0.54	7.81	-3/2.6		
0822		6.12	0.94	12.0	0-196	20	0.46	8.14	-329.1		
3527		6-32	1.14	11.9	0.196	16	0.41	8-29	-330-6		
083Z	120	6.62	1.44	12-0	0-200	14	0.35	844	-346		
0837		6.75	1.57	12.0	0.200	10	0.33	8.49	-345,3		
0842				12.0	0-202	9	0-30	8.57	-349.7		
V015											
	<u></u>										
		-									
										`	

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom. (1)
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = n^*(r^2)^*L$ in mL, where r (r=D/2) and L are in cm. (2)For Imperial units, $V_s = \pi^*(r^2)^*L^*(2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min. (3)
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Inst. Control#5
W/L Meter NF06117
Turb NF05042
YSI NF07602

Purge @

SAMPLE ID#WG-18036-121015-86-002

SAMPLE TIME 083C

Monitoring Well Record for Low-Flow Purging (Form SP-09)

Project Data:	Project Name: Ref. No.:	BNIA D	NARTERLY 2-2014 1			Date: Personnel:		2/10/1	S		CofC* 48965
Constructed Well Depth (m/ft):			MW-34		Saturated Screen Length (m/ft): Depth to Pump Intake (m/ft) ⁽¹⁾ : Well Diameter, D (cm/in): Well Screen Volume, V _s (L) ⁽²⁾ : Initial Depth to Water (m/ft):						
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU ±10 %	DO (mg/L) ±10 %	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
~ (°) (s°)	170	Pre	ecision Required:	±3 %	±0,005 or 0,01 ⁽⁵⁾	2,68	0.55	(3:17	1158		
0012	120_	5.12	0.98	11.3	1.15	1:57	0.00	10.25	160		
2814	<u></u>	577	1.65	11.2	1114	1.45	0,00	6.37	100		
087.1	122	6.28	1100	11,		0.89	0.00	6.40	158		
-76165	" Was brown	3,000									
			:	,							
									· ·		
											4556

The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom. (1)

The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = n^*(r^2)^*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi^*(r^2)^*L^* (2.54)^3$, where r and L are in inches

The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min. (3)

Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm. (5)

INST CONTROL #S
HORIBA-NFOTAOL
W/L METER-NFOUND
TURBIDINETER-NFOSOAO



Notes:

Monitoring Well Record for Low-Flow Purging (Form SP-09)

Project Data: Project Name: _ Ref. No.: _	3NIA Quaterly	Ast Closure	Personnel: D. Tyren	
Monitoring Well Data: Well No.: Vapour PID (ppm): Measurement Point: Constructed Well Depth (m/ft): Measured Well Depth (m/ft): Depth of Sediment (m/ft):	MW-30	Saturated Screen Le Depth to Pump Inta Well Diameter Well Screen Volur Initial Depth to V	take (m/ft) ⁽¹⁾ : er, D (cm/in): me, V _s (L) ⁽⁴⁾ :	No. of Well

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
			cision Required:	±3 %	±0,005 or 0,01 ⁽⁵⁾	±10 %	±10 %	±0.1 Units	-182,7		
0909	80	6.43	0.69	(l. &	0.80	9	0.95	7.66			
0914	136	7.18	1.44	12-6	0.81	<u> </u>	0.41	7,56	-194.9		
0919	108	7.88	2:14	12.5	6.82	Lj	0.38	7.55	-200.4		
0924	700	8.38	2.84	12.4	0.82	3.76	0.36	7,54	-204.1		
0929		0 700									
01-1											
						-					
								<u> </u>			

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom. (1)
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi^*(r^2)^*L$ in mL, where r (r=D/2) and L are in cm. (2)For Imperial units, $V_s=\pi^*(r^2)^*L^*(2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min. (3)
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
- For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm. (5)

Inst. Control 1's

W/L Meter NFOGAT

YSI Meter NFO7602

Turb NFOSO42

(Form SP-09)

Project Data:	Project Name: Ref. No.:	BNIA (DUARTERI 2-2014	4	<u>.</u>	Date: Personnel:		2/16/15			MSMSL
Mea Constructed W Weasured W	ell Data: Well No.: pour PID (ppm): surement Point: Vell Depth (m/ft): Vell Depth (m/ft): Sediment (m/ft):		35	s	aturated Screen L Depth to Pump In Well Diameto Well Screen Volu Initial Depth to	take (m/ft) ⁽¹⁾ : er, D (cm/in): ime, V _s (L) ⁽⁻⁾ :		3.02			C.FC# 48965
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Levei ⁽³⁾ (m/ft) ecision Required:	Temperature °C ±3 %	Conductivity (mS/cm) ±0,005 or 0,01 ⁽⁵⁾	Turbidity NTU ±10 %	DO (mg/L) ±10 %	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
	- C- C-102	Pro Services	602	11/1	0000	1.12	0.00	10:79	-67		

		710	cision required.			COTTON.			g conserve (P		
0900	105	14.55	0.93	11.4	0.559	1.13	0.00	6.79	-67		
	1 Con Lund	14.89	1 7 -7	11,2	0.562	0.64	0.00	10.80	-90		
0905		1 1 1 1 1 1 1 1	1161	0 0 0				6.97	-113		1
0910		15.30	1.48	11.2	0.561	1.00		10.77			
6016	100	15.75	7.13	11.2	0.559	0.44	0.00	7.05	-128		
07115	I LAW			() Puring	12 C C C		0,00	-7 11	-13Lp		
0920		11.11	2,54	11.2	0.558			111			
0000	100	16.59		11.3.	0.555	0.41	0.00	7.16	-144		
01/2	البكائي	10,01			A STATE OF THE PARTY OF THE PAR					,	
					 						
	,	1									
					 						
								1	ţ		
				<u> </u>		<u> </u>			L	L	

Notes:

The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2.ft) above any sediment accumulated at the well bottom. (1)

The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi^*(r^2)^*L$ in mL, where r (r=D/2) and L are in cm. (2)

For Imperial units, $V_s = \pi^*(r^2)^*L^* (2.54)^3$, where r and L are in inches

The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min. (3)

Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid (4)and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm. (5)

INST CONTROL #5

1-10R1BA-NF07401

WL HETER-NECOUS

ERRIDIMETER- NEDSONO

Monitoring Well Record for Low-Flow Purging (Form SP-09)

Project Data:	Project Name: Ref. No.:	BNIA 1803	Post C	losure		Date: Personnel:	12/10/1.	5		-	
Constructed V Measured V	Vell Data: Well No.: Spour PID (ppm): Surement Point: Vell Depth (m/ft): Vell Depth (m/ft): Sediment (m/ft):			s	aturated Screen L Depth to Pump In Well Diamet Well Screen Volu Initial Depth to	ength (m/ft): take (m/ft) ⁽¹⁾ : er, D (cm/in): ıme, V _s (L) ⁽² ':					
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft) ecision Required:	Temperature °C ±3 %	Conductivity (mS/cm) ±0,005 or 0.01 ⁽⁵⁾	Turbidity NTU ±10 %	DO (mg/L) ±10 %	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
1007	128	6.41	1.01	13.1	1.24	3.21	0.51	7.68	-7.8		
1012	1162	7.12	1.72	13.1	1.25	2.10	0.38	7.89	-23.4		
1017	104	7.66	2-26	13.2	1.25	4.77	0.38	7.88	-31.7		
1022				13.2	1-25	2-31	0.35	7.87	<u>~36-Y</u>	<u> </u>	
				<u> </u>					,		

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, V_s=π*(r²)*L in mL, where r (r=D/2) and L are in cm. For Imperial units, V_s=π*(r²)*L* (2.54)³, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
- (5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Inst. Control#S

W/L METER NECGIT

TUTO NE 05042

YSI NE 07602

Start Purge @ 1001

Project Data:	Project Name: Ref. No.:	BNIA (DUARTERI 0-2014	4		Date: Personnel:	- (2)10 - SG	715			Cofc 48965
Mea Constructed V Measured V	Well No.: apour PID (ppm): asurement Point:		V-2		aturated Screen L Depth to Pump Ir Well Diamet Well Screen Volu Initial Depth to	ntake (m/ft) ⁽¹⁾ er, D (cm/in): ume, V _s (L) ⁽²⁾		7,50			
Time 102.6 1032.	Pumping Rate (mL/min)	Depth to Water (m/ft) Pre 8.29 8.78	Drawdown from Initial Water Level ⁽³⁾ (m/ft) ecision Required:	Temperature °C ±3 % 13.3 13.2	Conductivity (mS/cm) ±0.005 or 0.01 ⁽⁵⁾ 13.0	Turbidity NTU ±10 % 2.08 1.33	DO (mg/L) ±10 % 1.78 0.00	pH ±0.1 Units 10:57 10:14 10:17	ORP (mV) ±10 mV -85 -87	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
				,							

Notes:

The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom. (1)

INST CONTROL TO HORIBA-NFO7401

The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi^*(r^2)^*L$ in mL, where r (r=D/2) and L are in cm. (2)For Imperial units, $V_s=\pi^*(r^2)^*L^*$ (2.54) 3 , where r and L are in inches

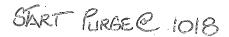
The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

W/L METER-NEOGII 8

Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

TURBIDIMETER NEOSO40

For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm. (5)





Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data: Project Name: BNIA Post Closure Ref. No.: 18036-2014	Date: 12/10/15 Personnel: 0.77/12.7 48965
Monitoring Well Data: Well No.: Vapour PID (ppm): Measurement Point: Constructed Well Depth (m/ft): Measured Well Depth (m/ft): Depth of Sediment (m/ft):	Saturated Screen Length (m/ft): Depth to Pump Intake (m/ft) ⁽¹⁾ : Well Diameter, D (cm/in): Well Screen Volume, V _s (L) ⁽²⁾ : Initial Depth to Water (m/ft):

		r	Drouglous								No. of Well
		D 41- 4-	Drawdown							Volume	Screen Volumes
	Pumping	Depth to	from Initial		0 1 4	Turbidity	DO	рН	ORP	Purged, Vp	Purged ⁽⁴⁾
	Rate	Water	Water Level ⁽³⁾	Temperature °C	Conductivity	NTU	(mg/L)	þ, í	(mV)	(L)	ŭ
Time	(mL/min)	(m/ft)	(m/ft)		(mS/cm)		±10 %	±0.1 Units	±10 mV	(-)	
			cision Required:	±3 %	±0,005 or 0,01 ⁽⁵⁾	±10 %		7.78	-189.8		
1109	100	2.37	1.00	12.1	1.50	21.5	0.55				
11/4	100	3.00	1.63	12-2	1,43	22.6	0.23	7.71	<u>-220.7</u>		
1116	100	3.5/	2.14	12-3	1.31	4,96	0.25	7.69	-229-5		
1124		3.81	2.44	12.2	1.23	7.64	0.23	7.70	-237.2		
1 1				12.2		6.157-75	0.22	7.74	274.1		
1129	i 04		2.82					7.77	7234.2		
1134	•	4,48	3.11	12.3	0.99	4.42	0.22				
1139	100	4.69	3-32	12-3	6.86	4.75	0-22	7.77	-217.6		
1144		492	3,55	12.4	0.85	5,79	0-21	7-77	-207-2		
1149		18.16.		12.5	0.84	3.73	0.20	7-77	-199.0		
VL D I											
											
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										1	

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi^*(r^2)^*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi^*(r^2)^*L^*$ (2.54)³, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
- (5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Inst- Control#5

YSI NF07602

Turb NF05042

Turb NF06117

W/L Heter NF06117

Start Pupe 1102

Project Data:	Project Name: Ref. No.:	BNIA 1803	OLSARTERL L3 - ZOIA	4		Date: Personnel:		10/5 6		-	Cofc# 48965
Mea Constructed W Measured W	ell Data: Well No.: pour PID (ppm): surement Point: /ell Depth (m/ft): /ell Depth (m/ft): Sediment (m/ft):		1-28	s	aturated Screen L Depth to Pump In Well Diamet Well Screen Volu Initial Depth to	itake (m/ft) ⁽¹⁾ : er, D (cm/in): ime, V _s (L) ⁽⁻⁾ :		5,95			40760
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU ±10 %	DO (mg/L) ±10 %	pH ±0.1 Units	ORP (mV) ±10 mV	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
	100	10.47 10.47 10.197	0.35 0.52 0.72	±3 % 13.3 13.2 13.3 13.3	±0,005 or 0.01 ⁽⁵⁾	0.58 1.05 0.87 0.49	0.00	7.04 7.13 7.20 7.21	-121 -133 -143 -148		
7 8 - 27							:				

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi^*(r^2)^* L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = \pi^*(r^2)^* L^*$ (2.54)³, where r and L are in inches
- (3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
- (5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Inst. Control #'S

He Meter NFOGUS

Homber NFO7401

Turb. NFO5040

START PURGE@ 1108

Monitoring Well Record for Low-Flow Purging (Form SP-09)

Project Data:	Project Name: Ref. No.:	BNIA 1803L	QUARTER 0-2014	11/		Date: Personnel:		olis		-	CofC# 48965
Meas Constructed W Measured W	Il Data: Well No.: Dour PID (ppm): Gurement Point: Ell Depth (m/ft): Ell Depth (m/ft): Gediment (m/ft):		5		aturated Screen L Depth to Pump In Well Diamet Well Screen Volu Initial Depth to	take (m/ft) ⁽¹⁾ : er, D (cm/in): ıme, V _s (L)\ ⁻ /:		107			
	Pumping	Depth to	Drawdown from Initial							Volume	No. of Well Screen Volumes
	Rate	Water	Water Level ⁽³⁾	Temperature	Conductivity	Turbidity	DO	рH	ORP (mV)	Purged, Vp (L)	Purged ⁽⁴⁾
Time	(mL/min)	(m/ft)	(m/ft)	°C	(mS/cm)	NTU H40.9/	(mg/L) ±10 %	±0.1 Units	±10 mV	(-)	
			cision Required:		±0,005 or 0.01 ⁽⁵⁾	±10 %	0.69	7.67	-50	1	
1232	713	3,65	0.98	13.5	1.82	1.83		Carrie Carrier			
1237		4.05	1.38	13.5	1,77	1.00	0.00	1,05	-65 -78		
1242		4.35	1.08	13.4	1.18	1.08	0,00	7.60	-12		
12,47	Lo 4	4.70	2,03	13,3	1.77	1.80	0.00		-98		
1252		4.91	2.24	13.2	1.76	1.5A_	0.00	148	6 9 9		
1257	60	5.18		13.2	1.76	1.31	0.00	7.69	-102		
										<u> </u>	
										ļ	
								<u> </u>			

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom. (1)
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = n^*(r^2)^*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s = n^*(r^2)^*L^*(2.54)^3$, where r and L are in inches
- The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

START PURGEC 1220

Inst. Control#'S W/L Meter NF06118 Turb NF05040 Homber NF07401

Monitoring Well Record for Low-Flow Purging (Form SP-09)

Project Data:	Project Name: Ref. No.:	BNIA	OLIARTER 10-2014	<u> </u>		Date: Personnel:		10/15		-	Cof C# 48965
Mea Constructed W Measured W	ell Data: Well No.: pour PID (ppm): surement Point: /ell Depth (m/ft): /ell Depth (m/ft): Sediment (m/ft):		7-31		aturated Screen L Depth to Pump In Well Diamet Well Screen Volu Initial Depth to	take (m/ft) ⁽¹⁾ : er, D (cm/in): ıme, V _s (L) ⁽⁻ /:		39			48965
Time o	Pumping Rate	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	рН	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Time	(mL/min)	(111111)	cision Required:	<u> </u>	±0,005 or 0,01 ⁽⁵⁾	±10 %	±10 %	±0.1 Units	±10 mV		
1335 1340 1345 1350	58 - S8	6,00 6,30 6,40 6,90	0.61	13.0 13.0 13.1 13.2	12.2	3.42 3.67 2.21 1.88	0.33	7.46 7.53 7.57 7.58	-143 -157 -165 -168		

Notes:

- The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom. (1)
- INST CONTROL #S
- The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = n^*(r^2)^*L$ in mL, where r (r=D/2) and L are in cm.

HORIBA-NFO7401

For Imperial units, $V_s = n^*(r^2)^*L^* (2.54)^3$, where r and L are in inches The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min. (3)

Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

WIL METER- NFOGUE

For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm. (5)

TURBID METER-NEOSOGO

BNIA Quarterly Post Closure Monitoring March 17, 2016

Project# 18036-2014 Field File



Tailgate Safety Meeting Form Small Group Format - Multiple Days

Date:	3/17	116	Time:			Project No.:	1803	36-2012	1
Presente				Project	t Name:	BNIA OL	JARTE	RLY SAM	1PLING
Safety top	oics/item	ns discussed:						ı	
PROPE.	R PF	E FOR TASH							
TRAFF	C-14	EAVY AT T TS-OPEN URFACES-	IMES	BE A	WARE O	F YOUR S	URRO	JN Ding 65	
PINCH	POIN	TS- OPEN	ING C	10511	NG WEL	1 405/	MH (OVERS	
UNEVE	en s	URFACES -	WATC	n yo	uk root	1/1/0			
Print N	ame				Signature			Company	
SHAW		RDIVER			Show	2 Hardne		GHD	
DAVID		RANI			1) deco) Una	_	GHD	
Doug		car			///	700		GHI)
Kest	ĵ	inch			W/X			GHI)
4DOL		SCAL			LINI	Contraction of the Property of		SHO	
Date:			Time:	<u> </u>		Project No.:			
Presente	or:		1 1110.	Projec	t Name:				
Present	EI.			110,00					
Safety to	pics/iten	ns discussed:							
_ , ,									+
									i
Dairet	lome				Signature			Company	
Print N	lame				Signature			Company	
Print N	lame				Signature		-	Company	
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	lame		Time		Signature			Company	
Date:			Time:			Project No.:		Company	
			Time:	Projec	Signature			Company	
Date: Present	er:	me discussed:	Time:	Projec				Company	
Date: Present	er:	ms discussed:	Time:	Projec				Company	
Date: Present	er:	ms discussed:	Time:	Projec				Company	
Date: Present	er:	ms discussed:	Time:	Projec				Company	
Date: Present	er:	ms discussed:	Time:	Projec				Company	
Date: Present Safety to	er: pics/iter	ms discussed:	Time:	Projec	ct Name:	Project No.:			
Date: Present	er: pics/iter	ms discussed:	Time:	Projec		Project No.:		Company	
Date: Present Safety to	er: pics/iter	ms discussed:	Time:	Projec	ct Name:	Project No.:			
Date: Present Safety to	er: pics/iter	ms discussed:	Time:	Projec	ct Name:	Project No.:			
Date: Present Safety to	er: pics/iter	ms discussed:	Time:	Projec	ct Name:	Project No.:			

Groundwater Sampling Equipment and Supply Checklist (Form SP-05)

Date:	<u>03/16/2016</u> (mm/dd/yyyy)	F	Reference No.	18036-2014
Equip	ment Required sampling equipment	Wate	ruments er level indicator rmometer * pH meter * Conductivity prob Turbidity meter HNu/OVA/Microt Air monitoring eq	ip
MANDER NAME OF STANDS	Gasoline can/gas Polypropylene rope Aluminum foil Paper towels pH buffer solution(s) Conductivity standard solution(s) Decontamination fluids (as per work plan and QAPP) Sample jars (extra) Sample jar labels (GHD) materials Cooler(s)/ice packs/packing materials Trash bags Sample preservatives Plastic spray bottles Plastic basin or pan Sample filter (on line or external filter) Polyethylene sheeting First aid kit Personal protective equipment (as per HASP)		Chain of custody Well logs Notebook/Field be Photolog Site pass/badge Federal Express Previous well log Site map Blank well data f	pook manifests gs/previous historical well data
	Well cap keys Bolt cutters Camera/film Knife Spare batteries for instruments Lock deicer (winter)		Tool box Spare locks/key On site transpor	lible marking pen vs rtation cle/snowmobiles)
Com	pleted By: David Tyran (please print)		Date:	<u>03/16/zo16</u> (mm/dd/yyyy)

Project Planning Completion and Follow-Up Checklist (Form SP-02)

Date:	e: <u>03/19/2016</u> Reference No	n. 18036-2014
	(mm/dd/yyyy)	
Prior !	or Planning and Coordination	
	Confirm well numbers, location and accessibility	
	Review of project documents, Health and Safety Plan (HASP), sar Control (QA/QC) and site-specific sampling requirements	mpling Quality Assurance/Quality
	Historical well data; depth, pH, performance and disposition of pur	ge water
X	Site access notification and coordination	
4	Coordination with laboratory through GHD chemistry group	
K,	Procurement, inventory and inspection of all equipment and suppl	ies
K	Prior equipment preparation, calibration or maintenance	
□NA	NA All utilities located and approved	
Filed	ed Procedure	
X	Instruments calibrated daily	
Á	Sampling equipment decontaminated in accordance with the QAF	P
2	Field measurements and sampling details logged in appropriate fi	eld books or an appropriate field form
Ä	Well volume calculated and specified volumes removed	
Z.	Specified samples, and QA/QC samples taken per Quality Assura	nce Project Plan (QAPP)
X'	Samples properly labeled, preserved and packed	
X	Sampling locations secured or completed according to work plan	
K	Sample date times, locations and sample numbers have all been	recorded in applicable log(s)
X	Samples have been properly stored if not shipped/delivered to lab	same day
X	Samples were shipped with complete and accurate chain of custo	dy record
Follo	llow-Up Activities	
Y	Questionable measurements field verified	
X	Confirm all samples collected	
	All equipment has been maintained and returned	
X	Sampling information reduced and required sample keys and field	l data distributed
X	Chain of custody records filed	
K'	Expendable stock supplies replaced	
K	GHD and client-controlled items returned (i.e., keys)	
	Arrange disposal of investigation generated wastes with client	
X	Confirm all samples collected	
Com	ompleted By: Dwid Tyran (please print)	ate: <u>03/19/2016</u> (mm/dd/yyyy)

Field Data Record Form
Meter, Turbidity (Portable) Hach 2100P
(QSF-421D)
Page 1 of 1

Control number: XIFO5041 Date (mm/dd/yyyy): 03/17/2016 User (print name): D. Tyrax	Project number: Project name: Location:	18036 - 2014 BNIA Y4'Ly Post Closure Genese Street, Cheektourge
Additional equipment control numbers and des 20 NTU Lot # 14 5211 exp 10/2016 100 NTU Lot # 14 5212 exp 10/2016 800 NTU Lot # 14 5212 exp 11/2016	ecriptions:	
Field procedure before use:		

		on only by field equipment ma	Check when completed					
Check kit contents; • Meter			K					
 Low 0-10, medium 	X							
Extra AA batteries								
Sample vials								
Test and record Gelex	Test and record Gelex standards: Gelex Standard Meter Reading							
o Low 0-10	20							
 Medium 0-100 	(00							
 High 0-1000 	800	777						
Note: Condensation	on outside of sample bo	ottles affects meter readings.						

Filling: Field file

Signature:

Field Data Record Form Meter, Turbidity (Portable) Hach 2100P (QSF-421D) Page 1 of 1

Control number: <u>NFO5040</u> Date (mm/dd/yyyy): <u>O3/17/2016</u> User (print name): <u>5. Gardner</u>	Project number: Project name: Location:	18036 - 2014 BNIA Y4'LY Post Closure Genese Street, Checktourge
Additional equipment control numbers and de 20 NTU Lot # A 5211 exp 10/2016 100 NTU Lot # A 5180 exp 10/2016 800 NTU Lot # A 5212 exp 11/2016	scriptions:	

Field procedure before use:

			Check when completed
Check kit contents;			
Meter			X
 Low 0-10, medium 	X		
 Extra AA batteries 	X		
 Sample vials 	X		
	Gelex Standard	Meter Reading	
Low 0-10	20	20.5	
 Medium 0-100 	(00	96.3	
 High 0-1000 	800	784	
		offices affects meter readings	

Filing: Field file

Sinnafuure.

DAILY LOG

3 17/16 YSI PRO SERIES #NFO760Z CALABRATION USING PH 4.00 AUTO CAL LOT# C579417 EXP 7/16 PH 4.00 BEFORE 4.15 AFTER 3.99 COND 4.49 BEFORE 4.59 AFTER 4.49 DO96 BAR. 736.4 93.690 READING 8.17 Mg/L D711 ONSITE SG WEATHER-CLOUDY 43°-50° F WINDS SW 10-30MP (ALL GATE SAFETY MEETING, GET ESCORT TO TAKE ACROSS TARMAC D745 SET UP ON MW-34 PURGE AND SAMPLE METHOD-LOW FLOWD USING MASTERFLEX PERISTALTIC PUMP W/ DEDICATED TUBING TO WELL D829 SET UP ON MW-35 PURGE AND SAMPLE, FIELD DUPLICATE 0950 SET UP ON MW-3 PURGE AND SAMPLE
PH 4.00 BEFORE 4.15 AFTER 3.99 COND 4.49 BEFORE 4.59 AFTER 4.49 DO% BAR. 736.4 93.6% READING 8.17 Mg/L DOTIL ONSITE SG WEATHER-CLOUDY 43°-50° F WINDS SW 10-30MP. VALUE SAFETY MEETING, GET ESCORT TO TAKE ACROSS TARMAC DOTAS SET UP ON MW-34 PURGE AND SAMPLE METHOD-LOW FLOW USING MASTERFLEX PERISTALTIC PUMP W/ DEDICATED TUBING TO WELL D829 SET UP ON MW-35 PURGE AND SAMPLE, FIELD DUPLICATE
DO% BAR. 736.4 93.690 KEADING 8.17 Mg/L D711 ONSITE SG WEATHER-CLOUDY 43°-50° F WINDS SW 10-30MP. FAIL GATE SAFETY MEETING, GET ESCORT TO TAKE ACROSS TARMAC D745 SET UP ON MW-34 PURGE AND SAMPLE METHOD-LOW FLOW USING MASTERFLEX PERISTALTIC PUMP W/ DEDICATED TUBING TO WELL D829 SET UP ON MW-35 PURGE AND SAMPLE; FIELD DUPLICATE
DO% BAR. 736.4 93.690 KEADING 8.17 Mg/L D711 ONSITE SG WEATHER-CLOUDY 43°-50° F WINDS SW 10-30MP. FAIL GATE SAFETY MEETING, GET ESCORT TO TAKE ACROSS TARMAC D745 SET UP ON MW-34 PURGE AND SAMPLE METHOD-LOW FLOW USING MASTERFLEX PERISTALTIC PUMP W/ DEDICATED TUBING TO WELL D829 SET UP ON MW-35 PURGE AND SAMPLE; FIELD DUPLICATE
D711 ONSITE SG WEATHER-CLOUDY 43°-50° F WINDS SW 10-30MP. VAIL GATE SAFETY MEETING, GET ESCORT TO TAKE ACROSS TARMAC 0745 SET UP ON MW-34 PURGE AND SAMPLE METHOD-LOW FLOW LISING MASTERFLEX PERISTALTIC PUMP W/ DEDICATED TUBING TO WELL 0829 SET UP ON MW-35 PURGE AND SAMPLE, FIELD DUPLICATE
MAIL GATE SAFETY MEETING, BET ESCORT TO TAKE ACROSS TARMAC 0745 SET UP ON MW-34 PURGE AND SAMPLE METHOD-LOW FLOW USING MASTERFLEX PERISTALTIC PUMP W/ DEDICATED TUBING TO WELL 0829 SET UP ON MW-35 PURGE AND SAMPLE, FIELD DUPLICATE
0745 SET UP ON MW-34 PURGE AND SAMPLE METHOD-LOW FLOW USING MASTERFLEX PERISTALTIC PUMP W/ DEDICATED TUBING TO WELL 0829 SET UP ON MW-35 PURGE AND SAMPLE; FIELD DUPLICATE
METHOD-LOW FLOW USING MASTERFLEX PERISTALTIC PUMP W/ DEDICATED TUBING TO WELL 0829 SET UP ON MW-35 PURGE AND SAMPLE, FIELD DUPLICATE
W/ DEDICATED TUBING TO WELL 0829 SET UP ON MW-35 PURGE AND SAMPLE, FIELD DUPLICATE
0829 SET UP ON MW-35 PURGE AND SAMPLE, FIELD DUPLICATE
OBEN CET UP ON THE OS IDIOE MAIN SAMPLE
1102 SET UP ON MW-28 PURGE AND SAMPLE
1206 SET UP ON MW-5 PURGE AND SAMPLE
1250 SET UP ON MW-31 IN ROAD WAY CONE OFF TWO
· · · · · · · · · · · · · · · · · · ·
LANES PURBE AND SAMPLE
1348 SAMPLING COMPLETE
1400 OFFSITE

18036-2014

Dare Tyra

18036-2014 BNIA Quarterly Bot Closure Monitoring

DAILYLOG

3/16/16 Calibrate Horiba U-22 with auto Cal. Solution Lot # C 5 794 19 exp 7/2016 Meter # NFOG156
601# C 579419 exp 7/2016 Meter # NFOG156
Before After
pH (400) 4,04 3.99
Cond (449) 4.41 4.50
DO 9.04 8.75
3/17/16 0728 on-site meet NFTA ESCORT.
0745 Set up on MW34D. Dryp & Sample low flow
Trio Blank = TB-18036-031716-DT 2x40ml 4/HCL
0850 Setus on MW30 purge & Sample low flow
0950 Setup on MW 30 perge & Sample low flow 0952 Setup on MW-33 perge & Sample Low flow 1045 Setup on MW-32 perge & Sample Low Flow
1045 Set up on MW-32 purge & Sample Low Flow
145 Meet up with SG finish remaining Wells
1400 Off-site
DAI)

Dard | Zyra

BNIA SITE QUARTERLY WATER LEVEL RECORD

DATE

CREW

3-17-16 D.Tyran S. Gardner NF06117, NF06118

INSTRUMENT Nos.

	GROUND ELEVATION	TOP OF CASING ELEVATION (A)	DEPTH TO WATER - (B)	WATER LEVEL ELEVATION (A-B)	
WELL NUMBER	feet AMSL	feet AMSL	feet	feet AMSL	COMMENTS
MW-2	692.16	691.81	6.64	685.17	
MW-5	688.21	685.93	2.39	683.54	
MW-28	689.26	688.27	5,77	682,50	
MW-30	695.54	694.81	4.42	690.39	
MW-31	688.46	687.22	3.51	683.71	
MW-32	711.37	710.71	0.55	7/0.16	
MW-33	713.34	712.50	4.89	707.61	
MW-34	703.81	702.93	2.97	699.96	
MW-34D	703.23	701.79	2.40	699.39	
MW-35	698.86	698.46	17.68	685.78	·

COMMENTS

SIGNATURE

Project Data			MC	ONITORING	WELL RECO	RD FOR LOW-	FLOW PURG	GING			
r roject Dutu	Project Name:	BNIA Ouar	terly Post-closure	e Monitoring		Date:	3.1	7.16		-	
	Ref. No.:		018036-2014		–			DiTyren		_	44
Monitoring V	- Vell Data:				-						
State of the state	Well No.:	MW	G 45		Well Diam	eter, D (inches):				<u>'</u>	
Measurement Point: Top of V		Vell Riser		Well Screen V	olume, V_{s} (L) ⁽²⁾ :				. =		
	Well Depth (ft):_		1.34		-	th to Water (ft):	2.4	<u> </u>			_
Measured \	Well Depth (ft): _			•	General	Well Condition:	Good		***************************************	- =	_
Sampling Da	Anna and an anna and an				MANAGARIAN DI MANAGAMAN MANAGAMAN MANAGAMAN MANAGAMAN MANAGAMAN MANAGAMAN MANAGAMAN MANAGAMAN MANAGAMAN MANAGAM	al page y commence and a second se					
	Sample No.: \(\)	كن-18036-WG	1716 -00 -00	jį	Chain	of Custody No.:			.205	5	
	Sample Time:		<u>O</u>			Parameters:	VOCs	Metals	115-114-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0		
M	S/MSD or Dup_		Drawdown								
	Pumping Rate	Depth to Water	from Initial Water Level ⁽³⁾	Temperature	DO	Conductivity	pН	ORP	Turbidity	Volume Purged, Vp	No. of Well Screen Volumes
Time Start Purge	(mL/min) 0752	(m/ft)	(m/ft) ecision Required :	°C ±3 %	(mg/L) ±10 %	(mS/cm) ±3 %	±0.1 Units	(mV) ±10 mV	NTU ±10 %	(L)	Purged (4)
(0803		3.02	0.62			0.296	6.96	T 54		<u> </u>	***************************************
0908	80	3.24	0.84	9.23	2.61	0.216	7.37	-115	<u>26.3</u> 19.5		
0813	80	3.43	1.03	9.00	1,43	0.711	7.46	-122	15.7		
0818		363	1,23	9.03	1.01	01148	7.78	-118	14.1		
0023		3,85	1.45	887	0.57	0.900	7.5.9	1-119	11.8		
0833		4.21	1.81	9.01	0.53	0.900	787	-136	10.3		
		11	1.01	110-)		0.100	/ . [[100		
			-1								
							211		-		
Comments:									Instr	ument Control Ni	umbers
tes:			1 : :	:	3:		-11 144	 Water Level Mete	115001	_	
The well screen	volume will be based	d on a 5-foot scre	en length (L). For	Imperial units, V	s=π*(r^)*L* (2.54)~	ccumulated at the w , where r and L are i	n inches.				
	from the initial wate ntinue until stabilizat					600 mL/min. less purge water ren		ti-parameter mete	- NFOGI	<u> </u>	- A.
	ars to be clearing, or . of Well Screen Volu		-	varying slightly	outside of the sta	bilization criteria an	d appear to be	Turbidimete	. Krosca	Y	
5 ,		5 1	•					Signatur	e <u>Lauc</u>	/ Lyla	

Pro	oject Name: _	BNIA Quarterly Post-closure Monitoring			Date: 3/17/16						
	Ref. No.:_		018036-2014		_	Personnel:	S'G				
Monitoring Well	Data:										
	Well No.:		<u>'- 34</u>			eter, D (inches):					
	nent Point: _		Vell Riser			olume, V _s (L) ⁽²⁾ :		0-7			_
Constructed Well		<u> 31.º</u>	75			th to Water (ft):	0.00	<u> </u>			_
Measured Well	Depth (ft): _				General V	Vell Condition:	<u>(jQ</u>)	<u>U</u>			_
Sampling Data			S. 13.4		oo	ALL DESCRIPTION OF THE PROPERTY OF THE PROPERT	The second secon			L	
			11716-00Z=S	6	Chain c	of Custody No.:	<u> 532</u>				
	-	<u> </u>	15			Parameters:	VOCs	Metals			
MS/M	ISD or Dup_		Drawdown	•							
	Pumping	Depth to	from Initial Water Level ⁽³⁾		DO	Carrido de la constitución de la	pН	ORP	Turbidity	Volume Purged, Vp	No. of Well Screen Volumes
Time	Rate (mL/min)	Water (m/ft)	(m/ft)	Temperature ° C	(mg/L)	Conductivity (mS/cm)		(mV)	NTU	(L)	Purged (4)
Start Purge	5753	Pr	ecision Required:	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %		
0758 1	24	3,90	0,93	8.9	3.78	0.92	<u> 630</u>	1554	1:30		
0803		4,55	1,58	8,6	13.44	0.41	7,11	149,7	3.74		
0800	108	217	3-10	8.8	3,53	0,90	179	43.6	1.510	1-1-q-110-11-11-11-11-11-11-11-11-11-11-11-11	
0015		0.70	410	7.0	13,30	0,10	116-1	1-1010	1730		
										-	
					ļ						

									1		
Comments:									Instru	ment Control N	ımbers
es:			nana majiros nangana prominen yang sesiong se	ондуустан айтай жайган айтуул үүдэг үүлэг айтай айтай айтуул айтай айтай айтуул айтай айтуул айтай айтуул айта					(C		
The pump intake will The well screen volum								Water Level Meter			
The drawdown from Purging will continue	the initial wate	er level should no	t exceed 0.3 ft. The	e pumping rate sl	hould not exceed 6	00 mL/min.	Mul	ti-parameter meter	YSI N	15076C	
turbid and appears to	o be clearing, or	unless stabilizat	ion parameters are					Turbidimeter	NFOSO	041	40000 REAL
stabilizing). No. of W	VeII Screen Voli	umes Purged= Vp)/ Vs.					Signature	: Should	~ 140	1 Anes

	Ref. No.:		018036-2014		Date: 3.17.16						
Meası					_	Personnel:	D. Tyro	<u> </u>	Andrew Control of the		
	Well No.:_						y page and a second				
		Mu	<u> </u>			eter, D (inches):					
onstructed V	rement Point: _		Vell Riser	•		olume, V _s (L) ⁽²⁾ :					_
	Constructed Well Depth (ft):		45	•	_	th to Water (ft):			***************************************		_
Measured V	/ell Depth (ft):_		-	•	General V	Well Condition:	Good				_
ampling Dat	а						.,,				
			176 - DT - a	93	Chain o	of Custody No.:	_ 5320	一题 53	<u> 3705 </u>		
	Sample Time:	0930)			Parameters:	VOCs	Metals			
MS	/MSD or Dup_			-							
	Pumping Rate	Depth to Water	Drawdown from Initial Water Level (5)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Turbidity NTU	Volume Purged, Vp (L)	No. of Well Screen Volume Purged ⁽⁴⁾
Time Start Purge	(mI/min) OG52	(m/ft) P	(m/ft) recision Required :	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %	(2)	
D90Z	80	5,72	1.30	13.53	3.94	0.96	6.26	115	10.6		
1907		622	1.80	12-65	1.41	1.00	6.37	107	681		
1912	88	Go-moi-		15.17	0.77	1.00	6.52	102	7.00		
2917	730	7.22	280	11-90	060	1.03	6-62	98	5,83		
922	88)***	11-73	050	0.99	6-72	94	5.90		ļ
927		872	3-30	11.67	0.48	1.02	6-83	89	57837 684		
				11.57	0,70	1-00	16.0	01	007	· · · · · · · · · · · · · · · · · · ·	
AL-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-							(911-11)				
			<u> </u>				<u> </u>				
Comments:								·	Instru	ment Control N	umbers
he pump intake	will be placed at th	ne well screen mi	d-point or at a mir	nimum of 2 ft abo	ve any sediment a	ccumulated at the v	well bottom.	Water Level Mete	I NFOGII	7	
he well screen v	olume will be based rom the initial wate	d on a 5-foot scre	een length (L). For	Imperial units, V	s=л*(r^)*L* (2.54)~	, where r and L are	in inches		1 N FO6 15		
urging will con	rom the initial wate tinue until stabiliza irs to be clearing, or	tion is achieved	or until 20 well scr	een volumes have	e been purged (un	less purge water re	mains visually	r barameter mere	1 N FOSON	10	

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Project Data:		MIT
Project Name: BNIA Quarterly Post-closure Monitoring Date: 317/10		
Ref. No.: 018036-2014 Personnel: 3G		" STATE OF THE PARTY OF THE PAR
Monitoring Well Data:		
Well No.: MW-35 Well Diameter, D (inches):		
Measurement Point: Top of Well Riser Well Screen Volume, V_s (L) $^{(2)}$:	_ =	
Constructed Well Depth (ft): 30.3 Initial Depth to Water (ft): 12.68		
Measured Well Depth (ft): 42,68 General Well Condition: General Well Condition:	_ =	
Sampling Data		İ
Sample No.: WG-18036-031716-004-SE Chain of Custody No.: 53705	_	
Sample Time: 0855 Parameters: VOCs Metals		
MS/MSD or Oup WG-1803Lp-031716-00Lp-SG Drawdown		
Pumping Depth to from Initial Rate Water Water Level ⁽³⁾ Temperature DO Conductivity pH ORP Turbidity	6	No. of Well Screen Volumes Purged ⁽²⁾
Time (mL/min) (m/ft) (m/ft) ° C (mg/L) (mS/cm) (mV) NTU Start Purge Precision Required: ±3 % ±10 % ±3 % ±0.1 Units ±10 mV ±10 %	(L)	1 til gen
0840 106 13.420.74 10:1 1.86 0.465 7.58 27.5 0.28		
0845 13.88 1.20 10.0 1.73 0.460 7.62 27.3 0.27		
0850 14.32 1,64 9,9 1.69 0.459 7.61 28.0 0.57		
		1
		дария
	trument Control Nuu	rbers
otes: The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. Water Level Meter 1 FOL	0118	
The well screen volume will be based on a 5-foot screen length (L). For Imperial units, Vs=π*(r*)*L* (2.54)*, where r and L are in inches. The drawdown from the initial water level should not exceed 0.3 ft. The pumping rate should not exceed 600 mL/min. Multi-parameter meter	N FO TU	52
Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be Turbidimeter NFOS	5041	
stabilizing). No. of Well Screen Volumes Purged= Vp/Vs. Signature	Mar	dner

Project Data	•		MC	DIMITOKING	WELL RECO	RD FOR LOW-I	ILOW I ONG	1140				
A STATE OF THE STA	Project Name:	BNIA Qua	rterly Post-closur	e Monitoring		Date:	3/17/16					
	Ref. No.:		018036-2014		-	Personnel:	D. Tyr	<u> </u>		_		
Monitoring V	Vell Data:							•		_		
	Well No.:	Mi	W-33		Well Diameter, D (inches):							
Meas	urement Point:		Well Riser	Well Screen Volume, V_s (L) ⁽²⁾ :								
Constructed V	Well Depth (ft):	Z4-	9	•	Initial Depth to Water (ft):		4.89	2				
Measured V	Well Depth (ft):			•	General	Well Condition:	Goe	<u>d</u>				
Sampling Da	ta									<u></u>		
	Sample No.:		31716 -DT -0	<u> </u>	Chain	of Custody No.:	5-32	(COO)	53205			
	Sample Time:	102	5			Parameters:	VOCs	Metals	1.110			
M	S/MSD or Dup			,								
	Pumping Rate	Depth to Water	Drawdown from Initial Water Level ⁽³⁾	Temperature ° C	DO	Conductivity	рН	ORP (mV)	Turbidity NTU	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾	
Start Purge	(mL/min) - 19952 ()	(m/ft) 955 1	(m/ft) Precision Required :	±3 %	(mg/L) ±10 %	(mS/cm) ±3 %	±0.1 Units	±10 mV	±10 %	(1)	1 1118	
1003	76	5.86	0.97	12.08	6.53	1.70	7.01	1114	3.81			
1008		632	1.43	11.84	5.14	1.69	706	ill	0.98			
1013	72			11.97	4.79	1.68	7.10	108	1,72			
1018		7.12	2.23	12.12	4.65	1.68	7.15	105	1.65			
									WWW.			
								ļ				
											1800	
Comments:		y II ilay i Ilay iyo ka iliba a k							Instr	ument Control N	umbers	
						accumulated at the w		Water Level Me	ter_ <u>NF06</u>	117		
The drawdown	from the initial wat	er level should r	not exceed 0.3 ft. Th	e pumping rate si	hould not exceed	600 mL/min.	Mul	ti-parameter me	ter <u>N F 06</u>	<u>156</u>		
						iless purge water ren abilization criteria an		Turbidime	ter NF 050	240		
stabilizing). No	of Well Screen Vol	umes Purged= \	/p/Vs.	•				Signat	ure) (cy	2GA	

	Project Name:	BNIA Quai	BNIA Quarterly Post-closure Monitoring				3.17.16				
	Ref. No.:		018036-2014		-	Personnel:	D Tyren	<u> </u>			
Monitoring V	Well Data:			Action proceedings and a second secon			Milathan and a same and a same a		T-141	,	
4	Well No.:		4-32	•		ter, D (inches):				. _	
	surement Point:		Well Riser	-		blume, $V_s(L)^{(2)}$:	ad Maria	C. The second		· =	_
	Well Depth (ft):			•	_	h to Water (ft):		.55		·	_
Measured \	Well Depth (ft):				General V	Vell Condition: _	<u> </u>	<u>xcl</u>			=
Sampling Da	ta					A CONTRACTOR OF THE CONTRACTOR	-				
	Sample No.:	WG-18036-ئ	51716 -DT -0	67	Chain o	f Custody No.:	5	<u> 3205 </u>			
	Sample Time:	1130		·		Parameters:	VOCs	Metals			
M	S/MSD or Dup Pumping Rate	MS/N Depth to Water	Drawdown from Initial Water Level (3)	Temperature	DO	Conductivity	рН	ORP	Turbidity	Volume Purged, Vp	No. of Well Screen Volume
Time	(mL/min)	(m/ft)	(m/ft)	°c	(mg/L)	(mS/cm)	•	(mV) ±10 mV	NTU ±10 %	(L)	Purged (4)
Start Purge	1052		recision Required:	±3 %	±10 %	±3 %	±0.1 Units		•		
<u> 1058 </u>	92	1.28	6.73	12.27	6.94	3-33	7.00	-/08	29.5		
1103	COND.	1.71	1.16	1167	4.55	3.84	7,04	-147	14.5		
1108	පිපි	2.14	1,59	11.72	0.95	3.72	7.09 7.12	-166	9.86		
<u>แเริ</u> แเชิ	28	2.17	1.31	12-00	0.80	3-37	7.14	-178	8.35		
1123		2.59	2.04	11.97	0.73	3-37	7.17	-181	8.40		
1128				11.82	0.68	3-37	7-19	-183	8.40		
			<u> </u>								
A Company of the Comp											
Comments:				1		·			Instru	ıment Control N	umbers
The well screen	te will be placed at the volume will be base from the initial water	d on a 5-foot scr	een length (L). For	Imperial units, V	/s=л*(r^)*L* (2.54)~,	, where r and L are i	in inches.	== Water Level Met ti-parameter met	11500		
Purging will co	ntinue until stabiliza	ition is achieved	or until 20 well scr	een volumes hav	e been purged (unl	ess purge water ren	nains visually	-	11 / 22		
	ears to be clearing, or o. of Well Screen Vol		*	e varying slightly	outside of the stab	ollization criteria an	d appear to be	Turbidimet	27	71-	

Ionitoring Well Da	Ref. No.: _		BNIA Quarterly Post-closure Monitoring		Date: 317/16					-	
	onitoring Well Data:		018036-2014			Personnel:	<u> </u>	ARDNER		-	
V	<i>ita:</i> Vell No.:	×	······································	MAC TO 2 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		/ \	ر مص _د	1/1	-		
Measurement Point: Top of Well Riser		MW- 2			Well Diameter, D (inches): Well Screen Volume, V_s (L) ⁽²⁾ :			/		-	_
onstructed Well De		26-				oth to Water (ft):		LoA		- -	_
Measured Well De		<u></u>	<u> </u>		_	Well Condition:		100D	v. uc- sustama		_
ampling Data	.P (14)			•				<u> </u>			
The state of the s	ple No.: \	WG-18036-⊘;	31716-008-81	3	Chain	of Custody No.:	<u>\$</u> 3	205			
		10		•		Parameters:	VOCs	Metals	A A A A A A A A A A A A A A A A A A A	<u>-</u>	
MS/MSD			Drawdown								
Time (ml	mping Rate L/min)	Depth to Water (m/ft)	from Initial Water Level (3) (m/ft) recision Required;	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volume Purged ⁽⁴⁾
007 10		122	0,58	10.1	0.87	11.02	10.82	1-77.8	14.38		
012		7.89	1.25	10.2	0.53	11.03	6.81	1-50,3	2,43		
017 10	0	8.42	1.78	10.3	0.63	10.92	6.82	-23.7	1.52		
022/		9.10	2.46	10.6	1:36	10,55	6.83	-3.7	0.02		
027	6	9.85	3.21	1015	1.65	10,50	6.89	4,4	0.77		
032 10		<u>10:41</u> 11:00	4.3/2	10:10	1.70	10,40	6.89 6.90	7.8	1.24		
042		11.53	4.89	10.7	1.63	10:42	6.90	6.9	0.99		
						<u> </u>					
THE PROPERTY OF THE PROPERTY O											
Comments:				271				ecca.	Same (Silvers and Silvers and	ument Control N	ımbers
he pump intake will be he well screen volume v	placed at th vill be based	e well screen mi d on a 5-foot scre	d-point or at a min en length (L). For	imum of 2 ft abo lmperial units, V	ve any sediment a s=л*(r^)*L* (2.54)~	ccumulated at the v , where r and L are	vell bottom. in inches.	Water Level Mete			
he drawdown from the urging will continue un	initial wate	r level should no	ot exceed 0.3 ft. The	e pumping rate s	hould not exceed	600 mL/min.	Mul	ti-parameter mete	<u> 781 N</u>	F0760	
arbid and appears to be abilizing). No. of Well	clearing, or	unless stabilizat	tion parameters are					Turbidimete	NFOS	944,	a

Project Data	•		171	OTHIOMING	WILL RECC	ORD FOR LOW	TEOWNORK	31140			
	Project Name:	BNIA Quai	rterly Post-closui	e Monitoring		Date	: 3/17	116			
	Ref. No.:		018036-2014		_	Personnel	S Gare	ther D	. Tyran	_	
Monitoring V	Well Data:								ı		
	Well No.:	MW-S)		Well Diam	eter, D (inches):					
Meas	urement Point:		Well Riser	_	Well Screen V	olume, V_s (L) ⁽²⁾ :					_
Constructed \	Well Depth (ft):_	23.5))	_	Initial Depth to Water (ft): 2, 39						_
Measured \	Well Depth (ft): _			-	General Well Condition:						
Sampling Da	ta										_]
			31716 -009- 9	<u>6</u>	Chain	of Custody No.:	5320	5		,	
	Sample Time:	12	<u> 35 </u>	_		Parameters:	VOCs	Metals			
M	S/MSD or Dup_			_							
Time Start Purge	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽⁵⁾ (m/ft) recision Required:	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH	ORP (mV)	Turbidity NTU	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽⁴⁾
Start Furge	1208		•	13 %		#3 %	±0.1 Units	±10 mV	±10 %		
1215	10	3.08	0.69	1/2:1	0,53	12,09	7.89	141.1	14.160		
1250	15	3.82	1.03	12.2	0.29	1.98	1.90	35,3	1.03		
1230	1	1 22.	11.40	151	0.27	1149	7.98	120	0.67		
· <u> </u>		1:22		116-7	10:6-	16.16	(, ,)	120,	0:07		
davin					.		ļ				
remarks											
					-						
Comments:				,,,		•			Instru	ment Control Nu	ımbers
S:	201-1-1-1-1	11				#2005***********************************		erece .	A 4 5 4 5 4 5	^	anten en e
The well screen	e will be placed at the volume will be based from the initial water	d on a 5-foot scre	en length (L). For	Imperial units, V	s=л*(r^)*L* (2.54)~	, where r and L are	in inches.		NFOLOIL	8 V F0760	<u> </u>
Purging will con	tinue until stabilizat	ion is achieved o	or until 20 well scre	en volumes have	been purged (un	less purge water ren	nains visually	ti-parameter mete			Frank Commence
	ars to be clearing, or of Well Screen Volu			varying slightly	outside of the stal	bilization criteria an	nd appear to be	Turbidimete	NFOS		
-		0 1	•					Signature	- FRANKY	U Ya	<u>edner</u>

			<u>M(</u>	<u>ONITORING</u>	WELL RECO	ORD FOR LOW-	FLOW PURC	GING			
Project Data	Project Name: Ref. No.:		BNIA Quarterly Post-closure Monitoring 018036-2014			Date: 3/17/11.0 Personnel: S BARDNER					
Monitoring \	-									-	
77.70	Well No.:	Mu	1-28		Well Diam	Diameter, D (inches):					
Meas	- surement Point:		Well Riser	-		olume, $V_s(L)^{(2)}$:				_	_
Constructed '	Well Depth (ft):	20	·5	- -	Initial Dep	oth to Water (ft):			- Marie - Mari	_	_
Measured '	Well Depth (ft): _			_	General [*]	Well Condition:	<u> </u>	<u>oD</u>		- =	_
Sampling Da	ıta										
	Sample No.:	WG-18036-0	31716 A10 - S	6	Chain	of Custody No.:	5	3205			
	Sample Time:	113	35	_		Parameters:	VOCs	Metals			
M	S/MSD or Dup_		Drawdown	_							
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	frawaown from Initial Water Level ⁽³⁾ (m/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	pН	ORP (mV)	Turbidity NTU	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged (*)
Start Purge	1113		Precision Required :		±10 %	±3 %	±0.1 Units	±10 mV	±10 %		
1119	100	6.12	0.35	10.5	0.93	10,60	7.32	19.0	4.27		
1124		6.21	0.44	10.5	0.55	10.58	7.26	49.7	0.81		
1139	100	<u>6.29</u>	0.52	10.5	0.50	10.57	7,22	49.3	0.71		
1134		10.36		10:10	0.49	10.30	7.20	7015	10:0/	<u> </u>	
				-	<u> </u>						
					-						

Comments:									Instr	ument Control N	umbers
The well screen	e will be placed at the	d on a 5-foot scr	een length (L). For	Imperial units, V	s=л*(r^)*L* (2.54)	, where r and L are	in inches.		- NFOLO		
Purging will con turbid and appe	from the initial water ntinue until stabiliza ears to be clearing, or	tion is achieved unless stabiliza	or until 20 well scre tion parameters are	een volumes have	e been purged (un	less purge water ren	nains visually	ti-parameter met Turbidimet	" <u>131 NF</u> " <u>NFOSC</u>	707602 141	
stabilizing). No	. of Well Screen Volu	ımes Purged= V	p/Vs.					Signatu	« Shown	J. How	duer-

16 TREAT TO BE TO THE TOTAL
Project Data:			<u>M(</u>	DNITORING	WELL RECO	ORD FOR LOW-	-FLOW PURC	GING			
	roject Name:	BNIA Qua	rterly Post-closur	e Monitoring		Date	3/17/1	()			
	Ref. No.:		018036-2014		Personnel: S GARDNER D. TYC				D. Tyrai		
Monitoring Wel	ll Data:				_				, .		
	Well No.:	MW	-31		Well Diam	eter, D (inches):	2"				
Measure	ement Point:		Well Riser		Well Screen Volume, V _s (L) ⁽²⁾ :						=
Constructed Wel	ll Depth (ft):_	22	-95		Initial Depth to Water (ft): 3,51						
Measured Wel	Measured Well Depth (ft):			General '	Well Condition:	Ga	<u> </u>			=	
Sampling Data											
			31716 - 011 - &	3	Chain	of Custody No.:	53	205			
	ample Time:		<u> </u>			Parameters:	VOCs	Metals	· · · · · · · · · · · · · · · · · · ·		
MS/N	MSD or Dup_		Drawdown								
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	from Initial Water Level ⁽³⁾ (m/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	рН	ORP (mV)	Turbidity NTU	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged ⁽²⁾
Start Purge	1255	J.	Precision Required:	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %		
1300	48	3.79	0.20	12.1	0.96	11.76	7.69	-138.2	3,42		
1305	5(2	4.03 4.36	0.02	12.6	0.45	11.68	1.16	-180:7 -185:8	8.87		
1315	56	4.69	1.18	12,6	0.33	10.86	7.73	183,5	6.49		
1320		1.96	1.45	12.7	0.33	10.37	7.72	-179.2	7.01		
1325	510	5.27	1.76	12.7	0.37	10.15	7. Lelo	-177.7	4.88		
1330		5,52		12.5	0.37	10:02	7.64	170,2	2.26		
		·						1- 26 20 20-			
			,							enconstant town to Ur p p	
-										was a second sec	
Comments:								matros	Instru	ıment Control Ni	ımbers
es: The pump intake wi The well screen volu	ıme will be based	d on a 5-foot scr	een length (L). For	Imperial units, V	s=π*(r^)*L* (2.54)~	, where r and L are	in inches.		NFOLE L		- Carlos de la Car
The drawdown from Purging will continu- turbid and appears t	ue until stabiliza	tion is achieved	or until 20 well scre	en volumes have	been purged (un	less purge water rei	nains visually		1 <u> YSI - NF</u> 1 NFO 502	6)
stabilizing). No. of V	_		•	, , ,				Signatur		The state of the s	dres_

BNIA Quarterly
Post Closure Monitoring
June 23, 2016

Project # 18036 -2014 Field File

DAILYLÖG

623/16 YSI PRO SERIES H NFOTLOOZ CALABRATION USING
PH 4,00 BEFORE 3.91 AFTER 4.00
COND 4.49 BEFORE 4,54 AFTER 4,49
DO BAR 743.3 112.3% READING 8.8LD
HORIBA 11-22 # NFO3583 CALABRATION USING SAME AS ABOVE
BAFORE 4.93 AFTER 4.60
COND BEFORE 4.55 AFTER 4.49
DO BEFORE 8.61 AFTER 8.77
0713 ONSITE SG WEATHER - SUN CLOUDS LIGHT WINDS NW SMPH
GET ESCORT FOR PASSAGE ON TARMAC
0740 SET UP ON MW-34 PURGE AND SAMPLE LOW FLOW
0851 SETUPON MW-35 PURBEAND SAMPLE MS/MSD
1022 SETUP ON MW-2 PURGE AND SAMPLE
1118 SET UP ON MW-28 PURGE AND SAMPLE
1225 SET UP ON MW-31 PURGE AND SAMPLE
1323 SET UP ON MW-5 PURGE AND SAMPLE
1410 SAMPLING COMPLETE, CLEAN UP
1420 OFFSITE
1120 0110110
1) Tya
1 juil 1

BNIA 1/4: Ly Post Closure Party Sunny 60-78 F Winds ESE 8-12 SG puge à Samplo MW31

18036-2014

Dave Vaguar

Field Data Record Form Meter, Turbidity (Portable) Hach 2100P (QSF-421D)

•			1 490 1 01 1
Control number: VFOSO4O Date (mm/dd/yyyy): 6 23 16 User (print name): DJT / SG	Project number: Project name: Location:	1803LO- BNIA QUAR BUFFALO A	ETERLY SAMPLIA
Additional equipment control numbers and design and the second of the se	criptions: CT 16' CT 16' CT 16'		
Field procedure before use: Do not calibrate in the field - in-house calibrati	ion only by field eq	uipment manag	er.
DO HOE GUIDI QUO IN CITO TOTAL			Check when completed
Check kit contents; Meter Low 0-10, medium 0-100, high 0-1000 standa Extra AA batteries Sample vials	rds		MMMM

Check kit contents;

Meter

Low 0-10, medium 0-100, high 0-1000 standards

Extra AA batteries

Sample vials

Test and record Gelex standards:

Gelex Standard Meter Reading

Low 0-10

Medium 0-100

Medium 0-100

Medium 0-100

Meter Reading

100

101

High 0-1000

Note: Condensation on outside of sample bottles affects meter readings.

Filing: Field file

Signature:

Field Data Record Form Meter, Turbidity (Portable) Hach 2100P (QSF-421D) Page 1 of 1

Control number: NFOSO41 Date (mm/dd/yyyy): 6 23 16 User (print name): DJT / SG	Project number: Project name: Location:	1803LO-2014 BNIA QUARTERLY SAMPLI BUFFALO AIRPORT
Additional equipment control numbers and do 20 NTU LOT# ASZII EXP 100 NTU LOT# ASI80 EXP. 800 NTU LOT# ASI83 EXP.	escriptions: OCT 16' OCT 16' OCT 16'	
Field procedure before use: Do not calibrate in the field - in-house calibr	ration only by field eq	uipment manager.
Do not cantrate in the nord in notice cans.		Check when completed
Check kit contents; Meter Low 0-10, medium 0-100, high 0-1000 stan Extra AA batteries Sample vials	dards	MMMM
Test and record Gelex standards:		X ·
Gelex Standard Low 0-40 20 20 Medium 0-100 100 High 0-1000 800	Meter Reading 21.1 103 789	

Filing: Field file

Signature:

BNIA SITE QUARTERLY WATER LEVEL RECORD

DATE

CREW

INSTRUMENT Nos.

NFOGIE NFOGILT

ELEVATION	ELEVATION			
	i	WATER	ELEVATION	
	(A)	(B)	(A-B)	
feet AMSL	feet AMSL	feet	feet AMSL	COMMENTS
692.16	691.81	7.40	68441	
688.21	685.93	3.52	682.41	
689.26	688.27	5.94	662.33	
695.54	694.81	6.53	688.28	
688.46	687.22	2.71	684.51	
711.37	710.71	0.93	709,78	
713.34	712.50	5,31	707.19	
703.81	702.93	3.90	699.03	
703.23	701.79	3.11	698.68	
698.86	698.46	13.81	684.65	
	692.16 688.21 689.26 695.54 688.46 711.37 713.34 703.81	692.16 691.81 688.21 685.93 689.26 688.27 695.54 694.81 688.46 687.22 711.37 710.71 713.34 712.50 703.81 702.93 703.23 701.79	692.16 691.81 7.40 688.21 685.93 3.52 689.26 688.27 5.94 695.54 694.81 6.53 688.46 687.22 Z.71 711.37 710.71 0.93 713.34 712.50 5.31 703.81 702.93 3.90 703.23 701.79 3.11	692.16 691.81 7.40 684.41 688.21 685.93 3.52 682.41 689.26 688.27 5.94 682.33 695.54 694.81 6.53 688.28 688.46 687.22 Z.71 684.51 711.37 710.71 0.93 709.78 713.34 712.50 5.31 707.19 703.81 702.93 3.90 699.03 703.23 701.79 3.11 698.68

CO	M	M	E	N	T	S	
							ı,

SIGNATURE

	Project Name: Ref. No.:				Date: <u>6 23 16</u> Personnel: SG							
Aonitoring V	•		010030-2014		_	i cisoinici.	86					
	Well No.:	M	W-28		Well Diam	eter, D (inches):		2	ndrawanan menengan pangan pilik di kecamanan			
Measurement Point:		Top of Well Riser			Well Screen Volume, V _s (L) ⁽²⁾ :							
Constructed Well Depth (ft):					Initial Depth to Water (ft):		S	5,94				
	Vell Depth (ft):					Well Condition:	Go				_	
ampling Da												
		WG-18036-	102316_S6_00	8	Chain	of Custody No.:	Ś.	5704				
	Sample Time:					Parameters:	VOCs	Metals				
MS	5/MSD or Dup											
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft) Precision Required:	Temperature °C ±3%	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Wel Screen Volum Purged ⁽⁴⁾	
Start Purge	1120		Tecision Requires.			1.51					1	
1132	100	1012B	0.34	15.6	0,41	114/15	7.53	-53.2	1.83			
1137	100	6.58	0.53	15.10	0.38	12,10	7.51	-52:5	0.53			
1124	100	6.71	10.0-T	15.7	0.29	12,08	+34	1-8/-4	0,48			
1132		6.84		15.8	0.2.7	12.15	7.47	1-47.2	0.61			
		5_0 .										
				,	-							
	1											
		<u>.</u>	_L			1					<u>. I.,</u>	
comments:	Constitution						innavianaviannonavasoogaasoovajanggaagagaga	oue.	Instru	ment Control Nu	umbers	
						ccumulated at the w	vell bottom.	Water Level Meter	NFOU	<u>18</u>		
			een length (L). For a not exceed 0.3 ft. The			, where r and L are 600 mL/min.		ti-parameter meter	YSINF	07602	ر	
		ition is achieved		en volumes have		less purge water ren			NEOSC	- 11		

I	Project Name: BNIA Quarterly Post-closure Mo Ref. No.: 018036-2014			e Monitoring	toring Date: Personnel:		<u> </u>	23/16			
Ionitoring W	,		010000 2011		_					•	CHECKET
Well No.: MW-2					eter, D (inches):		2				
Measurement Point: Constructed Well Depth (ft): Measured Well Depth (ft):		26.5			Well Screen Volume, V_s (L) ⁽²⁾ :		7,40 G00D			- -	
ampling Data	!									<u> </u>	
Section 10 to 10 t		WG-18036-062316-Sh-00Le			Chain of Custody No.:		55764				
	Sample Time:	11	00			Parameters:	VOCs	Metals	,		
MS/	MSD or Dup										
:	Pumping	Depth to	Drawdown from Initial							Volume	No. of We
Time	Rate (mL/min)	Water (m/ft)	Water Level ⁽³⁾ (m/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Turbidity NTU	Purged, Vp (L)	Screen Volur Purged (4)
Start Purge	1030		recision Required :	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %		
037	104	8.15	0.75	14.9	0.50	11.58	6.99	-41.6	0.52		
042		8.61	1.21	14.8	0.40	11.63	6.99	-58,3	1,37		
047	104	9,04	1.64	15,1	0.35	11,57	7.00	-72-4	0.32		
052	1	9.32	1.92	15.5	0.33	111.55	7.00	-77.1	0.19		·
057	102	9.54	,	15,3	0.30	11,53	7.00	-80.3	0.35		
								<u> </u>			
					<u> </u>						
· :							.,,				
					<u>.l.,</u>			<u> </u>			
Comments:									Instru	ıment Control N	umbers
he pump intake v	will be placed at t	he well screen mi	d-point or at a min	imum of 2 ft abov	ve any sediment ac	cumulated at the w	rell bottom.	— Water Level Meter	NFOL	118	
ne well screen vo	lume will be base	ed on a 5-foot scre	en length (L). For	Imperial units, V	s=π*(r̂-̂)*L* (2.54)~,	, where r and L are	in inches.			_)
			ot exceed 0.3 ft. The or until 20 well scre			00 mL/min. ess purge water ren		ti-parameter meter	NEOSO	FO7602	

Duningt Data			MC	DNITOKING	WELL RECOI	(D FOR LOW-	FLOW FUNG	1110			
Project Data	: Project Name:	BNIA Ouart	erly Post-closure	e Monitoring		Date: 623/16					
	Ref. No.: 018036-2014		Personnel:		00			-			
Monitoring V	Well Data:										
: :	Well No.: MW-35		V-35	Well Diameter, D (inches):			2			.	_
1 1	Measurement Point:		Top of Well Riser		Well Screen Volume, V _s (L)			01		· =	_
1 1	Constructed Well Depth (ft): _				Initial Depth to Water (ft): General Well Condition:			13.81 Good			_
Measured \	Well Depth (ft): _				General V	veli Condition:		<u> </u>			=
Sampling Da	140-140-140-140-140-140-140-140-140-140-		- 011 - 24	R		(0 / 1)		7-7KH		,	_
	· -	WG-18036-06 092	02316-56-00) 4	Chain o	f Custody No.: Parameters:		5709 Metals			
M	Sample Time: _ S/MSD or Dup	0 0	150			i aiameteis.	y OCS	14101013			
191	·	Depth to	Drawdown from Initial							Volume	No. of Well
	Pumping Rate	Water	Water Level (3)	Temperature ° C	DO	Conductivity	pH	ORP	Turbidity NTU	Purged, Vp (L)	Screen Volumes Purged ⁽⁴⁾
Start Purge	(mL/min) 0858	(m/ft) Pr	(m/ft) ecision Required :	±3 %	(mg/L) ±10 %	(mS/cm) ±3 %	±0.1 Units	(mV) ±10 mV	±10 %	(L)	1 113011
0905	100	14.51	0.70	14.2	1.00	0.598	7.79	322,8	1.25		
0910	100	14.88	1.07	14.6	0,00	0.596	7.77	329.8	0.76		
10915		15,00	1.49	14.5	0.51	0.592	7-74	233,8	0.51		
0975	100	112.01		12.5	0.50	0.59	7.73	272.3	1.02		
0930		16.31		14.6	0.50	0.594	7.72	273, Lo	0.76		
											
Comments:									Inatro	ıment Control Nu	umbers
tes:	AND SERVICE AND ASSESSED OF CONTRACTOR OF CO		generali salijaka a kanka ayan kananka a		- :				R		
The well screen	ke will be placed at the volume will be base	d on a 5-foot scre	en length (L). For	Imperial units, V	s=π*(r⁻)*L* (2.54)°,	where r and L are	in inches.	Water Level Meter			5
	from the initial wate ntinue until stabiliza							ti-parameter meter	_	F07602	· Name of the latest of the la
turbid and appe	ears to be clearing, or o. of Well Screen Vol	r unless stabilizat	ion parameters are					Turbidimeter	NEO SO	34/	<u> </u>
		5 1	•					Signature	h)a-	2/12	yra.

			rterly Post-closure	Monitoring	_	Date:		3/16			
	Ref. No.:		018036-2014		_	Personnel:	SG	Account to the second			
Monitoring V	Well No.:	M	W-34	and the second s	Well Diame	eter, D (inches):		2			
Meas	urement Point:		Well Riser	,		olume, $V_s(L)^{(2)}$:				_	_
1 1	Well Depth (ft):		1.95		Initial Dep	th to Water (ft):	3,	90			_
7 1	Well Depth (ft):				General V	Well Condition:	600	<u> </u>			
Sampling Da	ta						4404	41,444,511			
	Sample No.:	WG-18036- C	62316-SG-00) 2	Chain o	of Custody No.:	3 5	704			
	Sample Time:	90	40			Parameters:	VOCs	Metals			
M	S/MSD or Dup		Drawdown								
	Pumping	Depth to	from Initial							Volume	No. of Well
Time	Rate (mL/min)	Water (m/ft)	Water Level ⁽³⁾ (m/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	pН	ORP (mV)	Turbidity NTU	Purged, Vp (L)	Screen Volume Purged (4)
Start Purge	0757		Precision Required:	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %		
0805	112	5,63	1,73	13.7	1.01	0.99	7.10	439,1	3,35		
0810		6.10	2.20	14.2	0.92	0.99	7.23	406.2	0,91		
<u>0815</u>	108	6.70	2.80	14.2	0.81	0,99	7.37	382.9	1.24		
<u>0820</u>		7.24	3,34	13.8	0.74	0,99	7.40	368.1 355.3	1.01		
<u>0825</u>	108	7.78 8.25	3,88	14.2	0.67	0.99	7.510	333.3	0.80		
<u>0830</u> 0835	1100	8.61	4.33	14.3	0.03	0.99	7.58	343,3	0,55		7.100
0033		<u>(7).W</u>		1710	0.00		1100	10-10-0			
		<u> </u>		l		<u> </u>					1
Comments: s:	a Made in construction on the construction and the state of the construction of the co									ment Control N	umpers
The pump intak	e will be placed at t	he well screen m	id-point or at a min	imum of 2 ft abo Imperial units, V	ve any sediment a s=π*(r*)*L* (2.54)*	ccumulated at the w , where r and L are	rell bottom. in inches.	Water Level Meter			root
The drawdown	from the initial wat	er level should n	ot exceed 0.3 ft. The	e pumping rate sl	hould not exceed	600 mL/min.	Mul	ti-parameter meter	YSI NI	FO 760	2
rurging will co	ntinue until stabiliza ears to be clearing, o	auon is achieved	or until 20 well scre	een voiumes nave	: veen purgea (un	less purge water ren	namis visually		NFOSO	~ 41	

	Project Name:		rterly Post-closure	e Monitoring	_	Date: _		3.16			
	Ref. No.:	,000, 1.000	018036-2014			Personnel:	D. TY	<u>ran</u>	- MOTO		
Monitoring W		N 4774	V-34 D		Mall Diam	eter, D (inches):	4 inch		To the second se		
Moory	Well No.: _ rement Point:	Top of '				olume, V _s (L) ⁽²⁾ :	4 IIICH			·	
	ell Depth (ft):					th to Water (ft):	3.7	7			
	ell Depth (ft):					Well Condition:	prose . •				_
Sampling Date											
	Sample No.:		62316-54-00	01	Chain c	of Custody No.:	55	704			
	Sample Time:					Parameters:	VOCs	Metals	,	ı	
MS, Time Start Purge	MSD or Dup Pumping Rate (mL/min) 67-58	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽⁵⁾ (m/ft) Precision Required:	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10%	Volume Purged, Vp (L)	No. of Well Screen Volum Purged ⁽⁴⁾
0808	88	3.53	0.42	18.85	0.00	0.167	7.88	-331	40.1		
0813		3.72	0.61	18-71	0.00	0-160	7.82	-344	18.3		
0818	88			18.54	0.00	0.159	7-83	-352	14.0		
08 Z8	<i>8</i> 8	4.29	1.18	18 - U 18 - 03	0.00	0.157	8,00	-3 <i>55</i> -357	8-70		
0833		4.47	1-30	18.09	0-00	0.155	8.10	-357	7.98		
				<u></u>							
										,	
				-,· · · · · · · · · · · · · · · · · · ·	<u> </u>					n / 1/10/00/00/00/00/00/00/00/00/00/00/00/00	
			1		<u> </u>	<u> </u>					
Comments:		thin you are a second to the second planting to a second		and the second s			Triplicate in the following of the minimum or an account of the following			ment Control N	ımbers
						ccumulated at the we , where r and L are i		Vater Level Meter	NFO 6		
he drawdown fr	om the initial wate	er level should n	ot exceed 0.3 ft. The	pumping rate sl	nould not exceed 6	00 mL/min.	Multi-	-parameter meter	NFOS	<u> 583 </u>	OMEROGRAPHICA
urbid and appear	s to be clearing, or	r unless stabiliza	tion parameters are			ess purge water rem pilization criteria and	•	Turbidimeter	NFOS	20710	Married & Marrie
abilizing). No. o	of Well Screen Volu	umes Purged= V	p/Vs.					Signature		1/1/20	uto

	Project Name: _ Ref. No.: _	BNIA Quart		Monitoring		Date: _ Personnel: _	6/2 D. T.	3/16 7/20			
Monitoring V	Vell Data:					-	***************************************				
:	Well No.:	MV	V-30			ter, D (inches):		2			_
Meas	urement Point:	Top of V	Vell Riser	V		lume, V _s (L) ⁽²⁾ : _				<u> </u>	_
Constructed V	Vell Depth (ft):_	23	.45		-	h to Water (ft):	6.3	5			_
Measured V	Vell Depth (ft): _				General W	Vell Condition: _					-
Sampling Da	ta									<u> </u>	
	Sample No.:	WG-18036-66	2316-56-00	2.3	Chain o	f Custody No.:	55	704			
	Sample Time:					Parameters:	VOCs	Metals			
MS	S/MSD or Dup										
Time Start Purge	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ⁽³⁾ (m/ft) recision Required:	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volume Purged ⁽²⁾
0917	3.90	副 1 37	12000	16.35	1.94	1.06	7.72	-179	Z30_		
0972	864	-2-CP	7 846	16.15	0.00	1.06	7.68	-196	161		
0927	76		7600	1604	0.00	1.05	7.65	-2012	55,9		
0932	80	9.51	2.98	(6.32		1.03	7.60	-205	31.2		
0937	80	9.99	3.46	16,05	0-00	1.03	7.60 7.61	-208 -210	18.9 11.5		
09.42	80	10.38	3.85	16.13	0.00	1.04	7.62	7211	10.9		
0957				16.24	0.00	1.03	7.62	-213	9.04		
<u>~ -3 e </u>				11/7							
: :											
										Maria de la companya	
					<u> </u>	<u> </u>					
Comments:				And the second s					Instru	ment Control N	ımbers
The well screen	e will be placed at the volume will be base from the initial wate	d on a 5-foot scre	en length (L). For	Imperial units, Vs	≔π*(r´)*Ľ* (2.54)´ ,	where r and L are i	n inches.	ater Level Meter		<u> 3583</u>	Address (1-37)
Purging will con	ntinue until stabiliza ears to be clearing, o	ition is achieved	or until 20 well scre	een volumes have	been purged (unle	ess purge water rem	ains visually	Turbidimeter		5040	And the second s

	Project Name:	BNIA Quar	terly Post-closure	Monitoring		Date: _		3-16			
	-		018036-2014			Personnel: _	D.13	Tren-			
Monitoring V				, and the second	X47 11 TO	D (i1)	A SAME TO SAME THE SAME TO SAME THE SAME TO SAME THE SAME	2			
	Well No.:		V-33	•		ter, D (inches): _ lume, V _s (L) ⁽²⁾ :				_	_
	urement Point:		Vell Riser 4.9	•		h to Water (ft):	513	3 /			
	Well Depth (ft): Well Depth (ft):				=	Vell Condition:					=
Sampling Da	•										
	transmission control of the control	WG-18036- (v	623 i6-5G-00	o s	Chain of	Custody No.:	55	704			
+ 1 + 1	Sample Time:					Parameters:	VOCs	Metals			
	S/MSD or Dup Pumping Rate (mL/min)			Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	$p\mathrm{H}$	ORP (mV)	Turbidity NTU	Volume Purged, Vp (L)	No. of Well Screen Volume Purged ⁽⁴⁾
Time Start Purge	1018		recision Required :	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %		
1024	80	6.15	78.0	19.78	2.07	1.62	7.10	-47	5.6.7		
1029	80	6-66	1,35	19,83	0.47	1.64	7.16	-51	3.20		. are
1034	0.	'mp / / 'mig	2 10	19.35	1.70	1.60	7.18 7.21	-52 -53	1.56 5.65	ALAMATANA .	
1039	80	7.47	2.16	19-30	1,33	1.68	7.19	-53	4,34		
1049	පිට	8 00		19.50	0.00	2.03	7.27	£7.3	3.40		
1054		8.73		19.30	0.00	2,10	7.23	753	0.78		
1059				19.50	0.00	2.07	7.23	-52	2.24		
								4		··········	
	 										
										MANUAL TO THE STATE OF THE STAT	
Comments:									Instru	ment Control N	umbers
s: The pump intal	ke will be placed at t	he well screen m	id-point or at a min	imum of 2 ft abov	e any sediment ac	cumulated at the w	ell bottom. V	Vater Level Meter	NF	06117	
The drawdown	volume will be base from the initial wat	er level should n	ot exceed 0.3 ft. The	e pumping rate sh	ould not exceed 60	00 mL/min.	Multi	-parameter meter	NE	<u> 6358) </u>)
Purging will co turbid and app	ntinue until stabiliza ears to be clearing, o	ation is achieved or unless stabiliza	or until 20 well scre tion parameters are	een volumes have varying slightly	been purged (unle outside of the stab	ess purge water rem ilization criteria an	ains visually d appear to be	Turbidimete	NF	05040	
	o, of Well Screen Vol			, , ,				Signature	(Z)a	()1:	ella

Project Data:			<u>MC</u>	NITORING V	WELL RECOR	RD FOR LOW-I	FLOW PURGI	<u>NG</u>			
	Project Name:	BNIA Quar	terly Post-closure	Monitoring		Date:	6/23	3/16	All Management of the control of the		Tell
	Ref. No.:		018036-2014			Personnel:	DIT	1000			
Monitoring W	ell Data:						(annicht beschreibe der eine der eine der gegen gewonne der eine der der Scholle Albeit an Albeit Albeit an Alb		
	Well No.:	M	W-32			ter, D (inches):		2			_
	rement Point:		Well Riser	Ţ	Vell Screen Vo	lume, V _s (L) ⁽²⁾ :	/3	00			_
1 1	ell Depth (ft): _		4.41			h to Water (ft):		9.73	· · · · · · · · · · · · · · · · · · ·		_
Measured W	ell Depth (ft): _			_	General W	Vell Condition:				·	=
Sampling Dat	The second secon			(SIT)	Marie Commencer and Company of the Commencer and				Andrew Control of the	· · · · · ·	
		WG-18036-46	2316 -54 -0	907	Chain o	f Custody No.:	557				
1 1	Sample Time:	1205	× 277 W	M		Parameters:	VOCs	Metals			
MS	/ MSD of Dup Pumping Rate	WG - LBO Depth to Water	36 - 062316 Drawdown from Initial Water Level (3)	Temperature	DO	Conductivity	pН	ORP	Turbidity	Volume Purged, Vp	No. of Well Screen Volumes
Time	(mL/min)	(m/ft)	(m/ft) recision Required :	** C ±3 %	(mg/L) ±10 %	(mS/cm) ±3 %	±0.1 Units	(mV) ±10 mV	NTU ±10 %	(L)	Purged (4)
Start Purge	1136				0.84	2.85	8.36	-225	7.82	T	1
11/2	104	2.96	1,38	19-29	0.00	z.56	8,40 04.8	-24L	10.1		
11132	117	3.63	2.70	18:41	0.00	Z.45	8.46	-255	3.69		
1157				19.23	0.00	2.32	8.37	-257	8.31		
1202	112			18.22	0.00	2.38	8.33	-25°	1.83		
: 1											
i (
						\$					
Commonto	<u> </u>			,		·			Instr	ument Control N	umbers
Comments:	(Control of the Control of the Contr		2018			ministration of the second of	ortennes une mente en		000000000000000000000000000000000000000		
The well screen v	olume will be base	ed on a 5-foot scr	id-point or at a min een length (L). For	Imperial units, Vs	≔л*(r^)*L* (2.54)°,	where r and L are	in inches.	Vater Level Meter		96117 D 3583	
Purging will con-	inue until stabiliza	ation is achieved	ot exceed 0.3 ft. The or until 20 well scre	een volumes have	been purged (unle	ess purge water ren	nains visually	i-parameter meter	0:15	0 5040	Market Common Co
turbid and appea	rs to be clearing, o of Well Screen Vol	r unless stabiliza	ation parameters are	varying slightly	outside of the stab	ilization criteria an	nd appear to be	Turbidimeter		01/	4.40
								Signature	_ hour		ian

Monitoring Well Data: Well No.:	TIA Quarterly Post-closure Monitoring Date: UZ3 ILO	
Well No:	018036-2014 Personnel: <u>\$6</u>	
Measurement Point	MW-31 Well Diameter, D (inches): 2	
Constructed Well Depth (ft): 22.95 Initial Depth to Water (ft): 2.71	(2)	_
Sample No.: WG-18036-05234-36-00 Chain of Custody No.:		_
Sample No.: WG-18036-0523Uc-36-010 Chain of Custody No.:	General Well Condition: GOOD	_
Sample Time:		コ
MS/MSD or Dup		
Pumping Rate Open	1305 Parameters: VOCs Metals	
Pumping Depth to From Initial Temperature DO Conductivity pH ORP Turbidity Purged, by Sen (mg/L) Start Purge 12.32 Precision Required:		
Start Purge 12.337	pth to from Initial Vater Water Level ⁽⁵⁾ Temperature DO Conductivity pH ORP Turbidity Purged, Vp	No. of Well Screen Volum Purged ⁽⁴⁾
1245 76 3.75 .04 21.1 0.21 .93 7.83 22.0 .13 1250 100 4.10 1.39 21.3 0.25 .92 7.83 18.7 1.55 12.55 4.32 22.2 0.26 .92 7.81 21.5 1.19 1.30 4.55 22.5 0.27 1.94 7.82 19.7 0.72 1.30 1.30 1.55 1.30 1.55 1.30 1.55 1.30 1.55 1.30 1.30 1.55 1.30	14)() (114)()	
1.45 76 3.75 1.04 21.1 0.29 1.93 7.83 22.0 1.13 1.55 1.25 1.92 7.83 18.7 1.55 1.25 1.92 7.81 21.5 1.94 1.92 7.81 21.5 1.94 1.95 1.	28 0.57 20.3 0.46 2.17 7.85 46.4 2.20	
22.2 0.26 97 7.81 21.5 1.19 13.00 4.55 22.5 0.27 1.94 7.82 19.7 0.72 Comments: The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. The well screen volume will be based on a 5-foot screen length (L). For imperial units, Vs=n*(r*)*L* (2.54)*, where r and L are in inches.	75 1.04 21.1 0.29 1.93 7.83 22.0 1.13	
13c0 4.55 22.5 0.27 1.94 7.82 19.7 0.72 Comments: The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. The well screen volume will be based on a 5-foot screen length (L). For Imperial units, Vs=n*(r)*L* (2.54)*, where r and L are in inches.		
Comments: Instrument Control Numbe The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. The well screen volume will be based on a 5-foot screen length (L). For Imperial units, Vs=n*(r)*L* (2.54)*, where r and L are in inches.	36 66.6 0.60 1.12 1.00	
The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. Water Level Meter Value Level Meter Va	55 22.3 0127 17.1-1 17.02 17.7 0.770	
The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. Water Level Meter Value Level Meter Value Level Meter Value Level Meter Value Va		
: The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. Water Level Meter VFO 618 VALUE 15071 077		
: The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. Water Level Meter VFO 618 VALUE 15071 077		-
: The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. Water Level Meter VFO 618 VALUE 15071 077		
: The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. Water Level Meter VFO 618 VALUE 15071 077		
The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. Water Level Meter NFO 618 VALUE OF THE STATES		
The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. Water Level Meter NFO 618 VALUE OF THE STATES		
The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. Water Level Meter Notice 10 110 110 110 110 110 110 110 110 110	Instrument Control N	ambers
The well screen volume will be based on a 5-foot screen length (L). For Imperial units, Vs=π*(r)*L* (2.54)*, where r and L are in inches.	screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom. Water Level Meter NFO 6118	
	5-foot screen length (L). For Imperial units, Vs=π*(r')*L* (2.54) , where r and L are in inches.	2.
turging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually urbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be Turbidimeter NFO 5041	achieved or until 20 well screen volumes have been purged (unless purge water remains visually	

	Project Name:	BNIA Qua	arterly Post-closur	e Monitoring	_	Date:	<u> </u>	3/1Le			
	Ref. No.:		018036-2014	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- .	Personnel:		2	ALAMATINI CONTROL OF THE PARTY	-	
Aonitoring V	Vell Data:	NGWA-		,	- AU 131 M - WAST 1117 (22 MAI)						
	Well No.:		/IW-5			eter, D (inches):		2	7		_
	surement Point:		Well Riser	=		olume, V_s (L) ⁽²⁾ :		<u> </u>	<u></u>	·	_
	Well Depth (ft):		23.5	-	_	th to Water (ft):	3,5			. =	_
Measured \	Well Depth (ft):	promocent comments.		-	General \	Well Condition:	Goo			· <u>=</u>	=
ampling Da		Gatoonia Maraya I								<u>. </u>	
			0- AS-dESco	1 (Chain o	of Custody No.:	53	5704			
	Sample Time:		<u>55</u>	<u>-</u>		Parameters:	VOCs	Metals			
M	S/MSD or Dup		Drawdown								
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	from Initial Water Level ⁽³⁾ (m/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	рН	ORP (mV)	Turbidity NTU	Volume Purged, Vp (L)	No. of Well Screen Volum Purged ⁽⁴⁾
Start Purge	1327		Precision Required:	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %		
1335	154	4.00	0.48	23.5	0.34	11.35	7.81	-1-1	21.0		
1340		4.30	0.78	23.8	0.25	11.16	7.77	-10.8	11.0		
1345	_	4,51		23,3	0.23	11.09	7.75	-12,1	8.38		
13 <i>50</i>	52	4.80		23.1	0.22	11.06	7.78	-12,7	8,82	***************************************	
: 1											
			<u> </u>					4			
										77.7	
					<u> </u>						
· · · · · · · · · · · · · · · · · · ·					<u> </u>						<u></u>
Comments:						ali man Colombia di Mandillo di Latani di Habibata di Mandillo di Latani ana separa per			Instru	ment Control N	ımbers
he pump intak he well screen	volume will be base	ed on a 5-foot sci	nid-point or at a min reen length (L). For	Imperial units, V	s=л*(́r⁺)*L* (2.54)~	, where r and L are	in inches.	Water Level Meter			
	ntinue until stabiliza	ation is achieved	not exceed 0.3 ft. The l or until 20 well scre			,	nains visually	ti-parameter meter	NEO 50	57602	



Tailgate Safety Meeting Form Small Group Format - Multiple Days

Date:	6-23-16	Time:	08	909	Project No.:	1803	36-2014	
Presenter	Ditylan		Projec	t Name:	BNIA	1/4 Ly	Rost Closure	Mondering
Safety topic	cs/items discussed:					* /		
Host	Sample locate	ona a	ere	in med	lerate to	high	traffic area	5 A
Use to	uck and Cones	\$ 0	Clinic	te a			round your	
Sample	Zone. Flag m	on 4	0.11	he noc	esserye	one	location	
						· · · · · · · · · · · · · · · · · · ·		
Print Na				Signature	7		Company	
David	Tyran			June	Dy Thank	7	GHD	
Shown	Lynch Lynch			an and) arain		GHD	
ROTT	7/10/1			78			9 (()	
Date:		Time:			Project No.:			
Presenter	: [<u> </u>	Projec	t Name:	-			
			L		<u> </u>			
Safety topic	cs/items discussed:							
					,,,,,,			
Print Na	me			Signature		***************************************	Company	
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· · · · · · · · · · · · · · · · · · ·								
					T =			
Date:		Time:			Project No.:			
Date:	:	Time:	Projec	t Name:	Project No.:			
Presenter		Time:	Projec	t Name:	Project No.:		,	
Presenter	: cs/items discussed:	Time:	Projec	it Name:	Project No.:		,	
Presenter		Time:	Projec	it Name:	Project No.:			
Presenter		Time:	Projec	t Name:	Project No.:			
Presenter		Time:	Projec	t Name:	Project No.:			
Presenter	cs/items discussed:	Time:	Projec	t Name:			Company	
Presenter Safety topic	cs/items discussed:	Time:	Project				Company	
Presenter Safety topic	cs/items discussed:	Time:	Projec				Company	
Presenter Safety topic	cs/items discussed:	Time:	Project				Company	

BNIA Quarterly Post Closure Monstoring September 20, 2016

Project # 18036-2014 Field File Field Data Record Form Meter, Turbidity (Portable) Hach 2100P (QSF-421D) Page 1 of 1

	<i>I</i>
Additional equipment control numbers and descriptions: 20 NTU LOF# ASZII EXP 10/2016 20 NTU LOF# ASIBO EXP 10/2016 200 NTU LOF# A 5183 EXP 10/2016	·
Field procedure before use:	20000
Do not calibrate in the field - in-house calibration only by field equipment man	Check when completed
Check kit contents; Meter Low 0-10, medium 0-100, high 0-1000 standards Extra AA batteries Sample vials	
Test and record Gelex standards:	æ
Gelex Standard Meter Reading ○ Low 0-10 ZO ZZ ○ ○ Medium 0-100 IOO IOH ○ ○ High 0-1000 800 789	

This completed form is a quality record

Filing: Field file

Field Data Record Form
Meter, Turbidity (Portable) Hach 2100P
(QSF-421D)
Page 1 of 1

•			, ago	J 1 Ot 1
Control number: NFO5039 Date (mm/dd/yyyy): 09 20 2016 User (print name): D. Tycan	Project number: Project name:	18036 BNIA Re	- ZOIY IF Closure	Monifo
User (print name): D. Tyra	Location:	Bussalo	Airport	
Additional equipment control numbers and de ZO NTO Loft A SZII exp 10/20				
100 NTU Lot + A 5180 exp 10/2				
Field procedure before use:				
Do not calibrate in the field - in-house calibra	ation only by field eq	uipment mai	nager.	
			Check comple	
Check kit contents;				<u>:</u>
Meter			_	K -
 Low 0-10, medium 0-100, high 0-1000 stand 	dards		1	<u> </u>
Extra AA batteries				
Sample vials	•			
Test and record Gelex standards:				
Gelex Standard	Weter Readir	ıg		

Filing: Field file

Low 0-10

Medium 0-100

High 0-1000

20

100

800

Note: Condensation on outside of sample bottles affects meter readings.

Sionature:

18036-2014 BNIA Post Clossure Monitorins

DAILYLOG

		DAILYI	LOG
9/20/16	Calibrate	Horiba U.	22 Control # NF06155 with
and col	solution Lo	+# C688427	exp. 6/2017
<u> </u>		. After	
PH 4.00	4.06	4.00	
Cond 449	. 4.41	4.49	
DO	7.23		
0808	on-site	DT, SG, I	al most escort hood out
40 Sam	do Joeat	ans 10.	the Socure area
M073 S	of an on	MW-34D	Durie & Sample low- How
Trop Bl	ant = TB	<u>- 18036 - 01</u>	2016-SG 28 40m1 6/4CL
0975	Setup on	MW-30	purce & Sample low- flow
1045	setuo on	Mrs 33	pige & Sample low - Flow
1145 5	1 h	11:11-3/	z^{\prime} \wedge \sim z^{\prime} $>$ \wedge \sim
1300 S	etus on	MW-5	purge à Sample Low-flor
(<u>518</u>	off-site		
		The state of the s	•
	as posturar por	about the state of	
<u> </u>	- Andrews - L		
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			•
			O. 00/
721			(Oranan

BNIA Post Closure Monitoring

DAILYLOG

· DALLI LOU
9/20/16 Calibrate YSI meter control # NF07602
with auto cal solution 40++ C688427 exp 6/2017
Before Aft.
pH 4.00 3,86 4.00
Cond 449 . 4.47 4.49
DO (Bar 747.0) 95.8% 98.2%
0805 ONSITE SG WEATHER- SUNNY 168-75°F WINDS SW S-10MPH
TAILBATE SAFETY MEETING, ESCORT FOR TARMAC
0821 SET UP ON WELL MW-34 RIRGE AND SAMPLE LOW FLOW
0916 SET UP ON WELL MW-35 PURGE AND SAMPLE
1045 SET UP ON WELL MW-2 PURGE AND SAMPLE
1202 SET UP ON WELL MW-28 PURGE AND SAMPLE
1405 SET UP ON WELL MW-31 PURBE AND SAMPLE
1518 OPSITE

9/20/16

BNIA SITE QUARTERLY WATER LEVEL RECORD

DATE	9/20/16	
CREW	D. Tyran	9- Gardner

INSTRUMENT NOS. NFOGUT NFOGUE

,	GROUND	TOP OF CASING	DEPTH TO	WATER LEVEL	
	ELEVATION	ELEVATION	WATER	ELEVATION	
		(A)	(B)	(A-B)	CON AN AFRITS
WELL NUMBER	feet AMSL	feet AMSL	feet	feet AMSL	COMMENTS
MW-2	692.16	691.81	6.70	685.11	
MW-5	688.21	685.93	2-38	683.55	
MW-28	689.26	688.27	5.83	682.44	
MW-30	695.54	694.81	0.78	694.03	
MW-31	688.46	687.22	3.57	683.63	
MW-32	711.37	710.71	0.90	709.81	
MW-33	713.34	712.50	5.11	707.39	,
MW-34	703.81	702.93	3-36	699.57	
MW-34D	703.23	701.79	2.11	699-68	·
MW-35	698.86	698.46	14.81	683.65	

SIGNATURE Day Lynn

	Project Name: _ Ref. No.:	BNIA Quar	terly Post-closure 018036-2014	Monitoring		Date: _ Personnel:	9/20 W. d.				
Monitoring W	_		-			_					
	Well No.:	MW	7-34 D			ter, D (inches):	4 inch				
Meas	urement Point: _		Well Riser	V		lume, V_s (L) ⁽²⁾ : _	Ø . 3 3				_
	Vell Depth (ft):				_	h to Water (ft): _ Vell Condition:	2:11				
	Vell Depth (ft): _				General v	ven Contanton: _				•	
Sampling Dat		IATO 1000 (2)		Ē	Chain o	of Custody No.:	557	1. A. C.		3	
	Sample No.: _ Sample Time:	pin,	<u> 12016 - Sta - 00</u> D	Š.	Cilani o	Parameters:	VOCs	Metals		<u>.</u>	
MS	-S/MSD or Dup					-					
Time Start Purge	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level ''' (m/ft) recision Required :	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volum Purged **
Car fing out 1	72	2.38	0.47	20.36	4.79	0.781	7.26	19	11.0		
CA46	f George	2.73	0.62	20.37	3.69	0.160	7.50	- 92	10.8		
0851	68	2.90	6.79	20.413	3.47	0.124	7-64	~140	10.7		
0856		3:04	093	20.48	3 38	0.155	1.73	<u>~/6/</u>	10.7		
0906	G lm	3:13	1.02	20.53 20.58	3-33 3-28	0.158	7.81 7.86	-173	71.0		
							· · · · · · · · · · · · · · · · · · ·	3			
									-		
Comments:		k- Go	od need	le Hu	J-Plug				Instr	ument Control N	umbers
25:	Well Cond	Service of the servic			4	cumulated at the we	ell bottom. V	• Vater Level Meter	NECC	.(17	

Day / Egica

	Project Name: _	BNIA Quart	erly Post-closure	Monitoring	=	Date: _	9-20-				
	Ref. No.: _		018036-2014		-	Personnel:	Dity	CLYD			
Monitoring W	ell Data:	40000000000000000000000000000000000000									
	Well No.:	MV	1.31 D.ST M			ter, D (inches): -		2	J		
Meası	arement Point: _		Vell Riser	1		lume, V_s (L) ⁽²⁾ :	The Market				_
Constructed V	Vell Depth (ft): _	(DIP) 42	.95 23.5	15		h to Water (ft):_		8			_
Measured V	Vell Depth (ft):_				General W	Vell Condition: _				=	_
Sampling Dat	ia.										コ
	Sample No.:	WG-18036-09	2016 -56; - 00	.3	Chain o	f Custody No.:	. 33	708			
	Sample Time:	<u>/03</u>				Parameters:	VOCs	Metals		ı	
MS	S/MSD or Dup_		Drawdown								
Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	from Initial Water Level " (m/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Wel Screen Volun Purged ™
Start Purge	<u>093i</u>		ecision Required:	±3 %	±10 %	±3 %			110 70		
ठीपठ	96	2.08	1.30	19.47	4.27	0.97	7.31	103	13.4		
<u>CA45</u>		2.63	1.85	19.60	3.53	0.97	7.27	<u> </u>	21:5		
0950	90	318	2.40	7.7.7 19.90	3-30	0.97	7.28	<u></u>	6.35 7.86		
<u>0955</u>		<u> 3.78</u>	3-00	19.95	2.83	0.96	7:30	<u> </u>	4.44		
<u>/CCO</u>	74	4.18	3.40	19.83	2.71	0.91	7.35	135	4.56		
1010	60	514	4.36	19.82	2.71	0954	7.36	7/53	3-38		
1015		5,56	4.78	20.07	2.67	6.928	7.35	7/59	3.04		
1020	90	603	5.25	20.01	2.63	0920	7.37	-173	3.01		,
1025		6.51	5.73	20.00	2.60	0910	7.37	-181	2.68		
1030				19-95	2.61	0913	7.38	-135	3.56		
										· · · · · · · · · · · · · · · · · · ·	
5.000											
Comments:	Well Co	ndtin	- Con	ood			110000000000000000000000000000000000000	,	Instru	ument Control N	umbers
he pump intake	e will be placed at th	e well screen mic	l-point or at a mini	imum of 2 ft abov	e any sediment acc	rumulated at the we wnere r and L are n	ell bottom. W	Vater Level Meter	NFOGI	17	Margary on payor and all his Salah and American

	Project Name: _	BNIA Quart	erly Post-closure 018036-2014	Monitoring	-	Date: _ Personnel:		16			
Assitanies TA	_				-		3.17	CL Y Y			
Monitoring W	Well No.:	MW	(39) V- 30- 33		Well Diame	ter, D (inches):		2			
Measi	urement Point:			1		lume, $V_s(L)^{(2)}$:				-	
	Vell Depth (ft): _			?	Initial Dept	- h to Water (ft): _	516	1		ļ 	_
	Vell Depth (ft): _			•	General W	Vell Condition:	Good				_
Sampling Dat	ta										
	AND REAL PROPERTY OF THE PROPE	WG-18036 - 89	2016 - S6-00	35	Chain o	f Custody No.:	5.	5708			
	Sample No.: _ Sample Time: _	1115				Parameters:	VOCs	Metals			
MS	S/MSD or Dup_										
Time Start Purge	Pumping Rate (mL/min)	Depth to Water (m/ft) Pr	Drawdown from Initial Water Level ''' (m/ft) ecision Required :	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Wel Screen Volun Purged '*'
1059		5.93	6.82	7270	Land I may	1,42	7,49	68	2.49		T.
1104	Carrie Commenter	6.29	1.185	23.55	3-73	1 4 7	7.55	41	2.21		
1109	(₀ 0	6.63	1.52	23.96	334	1:47	7.57	32	2.75		
1114		7.02	1.9	24.06	3.22	1:42	7.60		2.86		
							1.4484-77			***************************************	
										-	
										A CONTRACTOR OF THE PROPERTY O	
Comments:									Instru	ment Control N	umbers
:					1.		11.1	Internal Mater	NF-061	, 5400 J	
he pump intake	will be placed at th	ie well screen mic a on a 5-1001 scree	l-point or at a min en length (L). For :	imum of 2 ft abov mperiai units, vs	e any sediment acc =л^(r)^L^ (2.54) ,	rumulated at the we where r and L are it	ell bottom. Vi n inches. Multi				· · · · · · · · · · · · · · · · · · ·

P	roject Name: _	BNIA Quai	rterly Post-closure	Monitoring		Date: _	9/20/			·	
	Ref. No.:		018036-2014			Personnel: _	12 15	ran			
Monitoring We	ll Data:										
	Well No.: _		W-32			ter, D (inches): _		2			_
	ement Point: _		Well Riser			lume, V _s (L) ⁽²⁾ :	jin.	0 1	ALL AND ALL AN		_
Constructed We	_				_	h to Water (ft):_		<u>.90</u>			_
Measured We	ll Depth (ft): _				General V	Vell Condition: _	Goo				
Sampling Data			tos antitulmis em timotos poete tras en esta esta en e	O po a a post contra con contra de la contra con a contra con a contra contra contra contra contra contra cont					was to see the second s	 	
	Sample No.: _		92016-59-0	o*7	Chain o	f Custody No.: _		······································			
	ample Time: _	127				Parameters: _	VOCs	Metals			
MS/	MSD or Dup_	HS/r	I 3 l Drawdown								
	Pumping	Depth to	from Initial Water Level "		D.O.	0 1 15 15	77	OPP	Turbidity	Volume Purged, Vp	No. of Well Screen Volume
Time	Rate (mL/min)	Water (m/ft)	(m/ft)	Temperature ° C	DO (mg/L)	Conductivity (mS/cm)	pН	ORP (mV)	NTU	(L)	Purged "
Start Purge	1149	ŀ	recision Required:	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %		
(157)	80	1.91	1.01	21.58	4-71	2.20	7-70	-155	Hel		
1 L. O Lun		2:31	1.41	20.98	3-88	2.15	7-73	170	20 C		
1207	7.2-	2-73	1.83	21.53	3.40	2.09	7-69	-177	6-14 3,76		-
1212		3-14	2.24	21.81	3-21 3.08	2.06	7.69 7.68	-181 -183	2.62		
I have to be				6m (1 C)	3.00	E 1 1 1 1 1 1		(0)	then the think the	A Commence of the Australia of the Austr	
										HIAMANA AND AND AND AND AND AND AND AND AND	
							· · · · · · · · · · · · · · · · · · ·			<u> </u>	
Comments:									Instru	ment Control Ni	ımbers
s: The pump intake w	ill be placed at the	e well screen m	id-point or at a min	imum of 2 ft above	any sediment acc	rumulated at the we	ll bottom. V	Water Level Meter	NFO61	17	- ANTINOS - CONTRACTOR - CONTRA
			een length (L). For lot exceed 0.3 ft. The			wnere r and L are ir 0 mL/min.		i-parameter meter	NEOGE	ž ž	
Purging will contin	ue until stabilizat	ion is achieved	or until 20 well scre	en volumes have b	een purged (unle	ss purge water rema	ins visually	Turbidimeter	1150 50	39	
turbia and appears	to be clearing, or	muess stabiliza	non parameters are	varying sugnity of	umide of the stabl	lization criteria and	appear to be	, arpidimeter	a soul of some first soul	1	

Project Name: _	DIVIA Quar	terly Post-closure	Monitoring		Date: _		20-16		.	
Ref. No.:_		018036-2014			Personnel:	D.	Tysan			
ell Data:		(B)	- Name of the State of the Stat					an ann an		
Well No.:	MV	V-33 5			· -		2	Market	-	
_			V		- · · · -		7 70		- -	_
_				-	· · · -				- =	
-										
			09	Chain o	f Custody No.:	56	708		_	
Sample Time: _	(33	0			Parameters: _	VOCs	Metals			
/MSD or Dup_ Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level™ (m/ft)	Temperature ° C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Weli Screen Volum Purged ™
80	7.38	1.00	z4.38	4.41	1.87	7.71	-164	2.24		
	3.89	1.51	24.56	3.57	1.85	7.82	-65	2-22		
72								(+//		
<u>64</u>	4.91	2.53	25.31	3-23	1.85	7.88	-112	1.80		
										·
	, and .							·		,
							-			
					Sp			Instr	ument Control N	umbers
will be placed at the	e well screen mi	d-point or at a mini	mum of 2 ft above	any sediment acc	rumulated at the we	ll bottom. V	Vater Level Mete	- <u>WF06</u>	U7	
	Well No.: _arement Point: _Well Depth (ft): _Well Depth (ft): _a Sample No.: _Sample Time: _/MSD or Dup _ PumpingRate (mL/min)	Well No.: MV Arement Point: Top of V Vell Depth (ft): 2 Vell Depth (ft): 4 Sample No.: WG-18036-AS Sample Time: (33 MSD or Dup Pumping Depth to Water (mL/min) (m/ft) 1013 338 3-87 72 4-38 4-63 4-91	Well No.: MW-38-5 Arement Point: Top of Well Riser Well Depth (ft): 24.9 Well Depth (ft): 24.9 Well Depth (ft): 24.9 Sample No.: WG-18036-1972016-56-0 Sample Time: /350 /MSD or Dup Pumping Depth to from Initial Water Level** (mL/min) (m/ft) (m/ft) Precision Required: 80 3-89 / 51 72 4-38 2-00 4-63 2-25 6-4 4-91 2-53	Well No.: MW-38 5	Well Data: Well Diame Well Diame Well Double Well Screen Volume Well Screen Volume Well Depth (ft): 24.9 Initial Depth Well Depth (ft): General Volume G	Well No.: MW-38 5 Well Diameter, D (inches): arement Point: Top of Well Riser Well Screen Volume, V _s (L) ⁽²⁾ : Initial Depth to Water (ft): General Well Condition: A Sample No.: WG-18036-672016-SG-009 Chain of Custody No.: Sample Time: (350 Parameters: MSD or Dup Pumping Rate (ntl/min) (nt/ft) Depth to (nt/ft) (nt	Well No: MW-38	Well Not	Well No. MW-39 5 Well Diameter, D (inches): 2	Well No: MW-39

Project Name:	BNIA Quar	terly Post-closur	e Monitoring	_	Date:	9/20) (Lo			
Ref. No.:		018036-2014		_	Personnel:	<u>S</u> B				
Monitoring Well Data:		20-27-28-29-20-005-20-00-00-00-00-00-00-00-00-00-00-00-00-					Marie Ma			
Well No.:	M	N-28	_		eter, D (inches):		2			
Measurement Point:		Well Riser	-	Well Screen Vo			^ ~			_
Constructed Well Depth (ft): _ Measured Well Depth (ft):		0.5	-	_	th to Water (ft): Vell Condition:	Ph 1245	8 <u>3</u>			_
Sampling Data			-	٠						
		9266-66-0	10	Chain o	of Custody No.:	. 5	5709			
Sample Time:	13	25	.		Parameters:	VOCs	Metals			
MS/MSD or Dup Pumping Rate Time (ml/min) Start Purge	Depth to Water (m/ft)	Drawdown from Initial Water Level " (m/ft) recision Required:	Temperature C ±3 %	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of Well Screen Volum Purged™
1210 - 9to 1303 100 1308 1313 102 1318 1323 100	6.10 6.27 6.41 6.81	0.275 0.44 0.58 0.81 0.98	19.6 19.7 19.8 19.9 19.8	0.01	12.71 12.69 12.70 12.70 12.71	7.44 7.39 7.35 7.33 7.31	-63,7 -60,1 -68,5 -65,2 -61.7	1.31 0.47 1.15 0.70 0.61		
Comments: s: The pump intake will be placed at the line well screen volume will be based.	ne well screen m	id-point or at a mir	nimum of 2 ft abo	ve any sediment ac	cumulated at the w	rell bottom.	Water Level Mete		ument Control N	umbers

Project Name: _	BNIA Quart	erly Post-closure	e Monitoring	_	Date:					
Ref. No.:_		018036-2014			Personnel:	SG	···			
Ionitoring Well Data:	indicates and the second s									
Well No.:_	MV	N-2			eter, D (inches):		2			_
Measurement Point:		Vell Riser	<u>-</u>		olume, V_s (L) ⁽²⁾ :	Ď _	·			_
onstructed Well Depth (ft):		5.5	-	-	th to Water (ft):		70			=
Measured Well Depth (ft):				General	Well Condition:	Gos				
ampling Data								Water and	<u> </u>	,
-	WG-18036-0	72016-36-00	වරි	Chain	of Custody No.:		708			
Sample Time:	113.	<u> </u>	-		Parameters:	VOCs	Metals			
MS/MSD or Dup Pumping Rate (mL/min) Start Purge	Depth to Water (m/ft)	Drawdown from Initial Water Level " (m/ft) recision Required:	Temperature "C ±3%	DO (mg/L) ±10 %	Conductivity (mS/cm) ±3 %	pH ±0.1 Units	ORP (mV) ±10 mV	Turbidity NTU ±10 %	Volume Purged, Vp (L)	No. of We Screen Volu Purged ``
102 102	7.43 8.09 8.63 9.11 9.51 9.99 10.30	0.73 1.39 1.93 2.41 2.81 3.29 3.60	19.6 19.6 19.8 20.0 20.1 20.2 20.4	0.64 0.34 0.31 0.29 0.30 0.28 0.30	12.35 12.41 12.38 12.37 12.30 12.22 12.19	6.95 6.94 6.94 6.93 6.93 6.92	-14.9 8.3 24.3 34.2 53.7 68.5 66.2	0.27 0.46 0.58 0.75 0.52 0.20 0.47		
Comments:							·	Instru	ment Control N	umbers
he pump intake will be placed at th	e well screen mic	l-point or at a min	imum of 2 ft abo	ve any sediment a	cumulated at the w , wnere r and L are i	ell bottom.	Water Level Mete	T_NFOL91	18	

D. Olique

D. J. of D. for		<u>MC</u>	DNITORING	WELL RECOR	RD FOR LOW-	FLOW PURG	<u>ING</u>			
Project Data: Project Name: _	BNIA Quart	erly Post-closur	e Monitoring		Date:		Le		5000	
Ref. No.:		018036-2014		_	Personnel:	<u> </u>		W. W.		
Monitoring Well Data:										
Well No.:	MW	V-35	-		eter, D (inches):		22			
Measurement Point:				Well Screen Vo		1 4	01			_
Constructed Well Depth (ft):			-	_	h to Water (ft):		81	<u> </u>		_
Measured Well Depth (ft):			-	General V	Vell Condition:	Gool	1		·	
ampling Data					- 100 (100 to 100 to					<u> </u>
Sample No.:		12016-5B-0	A	Chain c	of Custody No.:		55708			
Sample Time:	100	<u> </u>			Parameters:	VOCs	Metals			
MS/MSD or Dup	BLIND OU	PLICATE ·	WG-1803	6-09201L	2-56-00L	2 TH	E 1000	•		
Pumping	Depth to	from Initial		DO.	Constitution in	"U	ORP	Turbidity	Volume Purged, Vp	No. of Well Screen Volum
Rate Time (mL/min)	Water (m/ft)	Water Level [™] (m/ft)	Temperature " C	DO (mg/L)	Conductivity (mS/cm)	pН	(mV)	NTU	(L)	Purged 💆
Start Purge 0924	Pr	ecision Required:	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %		
0933 90	15,63	0.82	16.5	0.72	0.71	7.81	14.2	1.35		
0938 104	15.02	1.26	16.7	0.47	0:70	1.14	14.8	1.10		
2143	16:30	1.80	11.2	0:50	0.70	1773	-412,Le	0.77		
0948 98	16.01	7.09	17.3	0.47	0:70	7.74	-56.3	0.68		
0958	17,210		17.4	0.48	070	7.76	-59.7	0:61		
					1		10			
									·	
Comments:							=	Instru	ıment Control N	umbers
:: The pump intake will be placed at tl	he well screen mid	l-point or at a min	imum of 2 ft abov	ve any sediment ac	cumulated at the w	vell bottom.	Water Level Meter	NFOLDI	18 <u> </u>	
i ne well screen volume will be base The drawdown from the initial wate	ed on a 5-toot scree er level should no	en iengtn (L). For t exceed 0.3 ft. Th	imperiai units, v e pumping rate sl	s=π^(r)^L^ (2.54) , nould not exceed 60	wnere r and L are	ın ıncnes. Muli	ti-parameter meter	ysi x	(F0760	2
Purging will continue until stabiliza turbid and appears to be clearing, o	ation is achieved o r unless stabilizati	r until 20 well scre ion parameters are	een volumes have varying slightly	e been purged (unle outside of the stab	ess purge water ret vilization criteria ar	nams visually ad appear to be	Turbidimeter	NFOS	<u> </u>	
00010 (2) - Form SP-09 - Revision 2 - Apr								Do-	013	year

Project Name:	BNIA Quar	terly Post-closur	e Monitoring	_	Date:	9/20	[169			
Ref. No.:_		018036-2014		_	Personnel:	SG_	**************************************			
Monitoring Well Data:			manikkanikinkan pungungan manikan samuna				181		,	
Well No.:	M	N-34			eter, D (inches):		2		. <u> </u> _	
Measurement Point:		Well Riser	•		olume, V _s (L) ⁽²⁾ :	and the) /			_
Constructed Well Depth (ft): _	33	1.95		_	th to Water (ft):				. =	_
Measured Well Depth (ft):			•	General V	Well Condition:	<u> GC</u>	00			
Sampling Data				CONTROL CONTRO					L	
Sample No.:		92016-56,-0	2	Chain c	of Custody No.:		and the same of th			
Sample Time: _		905	-		Parameters:	VOCs	Metals		•	
MS/MSD or Dup_	NON	E Drawdown	-							
Pumping	Depth to	from Initial Water Level "	T	DO.	Carrierationitae	pН	ORP	Turbidity	Volume Purged, Vp	No. of Wel Screen Volun
Rate Time (mL/min)	Water (m/ft)	(m/ft)	Temperature " C	DO (mg/L)	Conductivity (mS/cm)	•	(mV)	NTU	(L)	Purged **
Start Purge OBBO	P	recision Required:	±3 %	±10 %	±3 %	±0.1 Units	±10 mV	±10 %		
0835 100	4.12	0.76	17.8	1.12	1.03	6.90	67.2	1.98		
0840 98	4.70	1.34	17.60	0.50	1.03	7-11	70.8	1.33		
0045	5,3 <u>6</u> 5,88	11.40	17.60	0,41	1.0Z	7.28	913	223		
08.55 100	0.48	3.12	17.10	0.39	1.02	7.31	102.6	2,32		
0900	6,92		17.7	0.37	1.02	7,360	109,3	1-53		
							A MARKATA AND A			
Comments:								Instru	ament Control N	umbers
Processor and the second secon	11 .	3	·		ensualated at the	all bottom	Mater I aval Mater	115 m 1 - 1	10	
The pump intake will be placed at th The well screen volume will be based	e well screen mi 1 on a 5-100t scre	a-point or at a min en length (L). For	ımum of 2 ft abov Imperial units, Va	ve any sediment ac s=л^(r)^L^ (∠.54) ,	wnere r and L are 1	n inches.	Water Level Meter	NFO LO		

Dar Japan

Project Name: _ Ref. No.: _	BNIA Quarto	erly Post-closur 018036-2014	e Monitoring	-	Date: Personnel:	00	DILLO			
Aonitoring Well Data:								Market Superior		
Well No.:	M	W CO-EL	W-3(eter, D (inches):		2			_
Measurement Point:	Top of W	Vell Riser	.		olume, V_s (L) ⁽²⁾ :					
Constructed Well Depth (ft):_	23	.5	-	_	th to Water (ft):	Λ				_
Measured Well Depth (ft):_			-	General V	Well Condition:	6	<u>000</u>		-	_
ampling Data										
Sample No.:	WG-18036- 🌣	12016-Sb-c	>1 (Chain c	of Custody No.:					
Sample Time:	1500		<u>.</u>		Parameters:	VOCs	Metals			
MS/MSD or Dup	NONE	ro on	_							
Pumping Rate	Depth to Water	Drawdown from Initial Water Level™	Temperature	DO	Conductivity	pН	ORP	Turbidity	Volume Purged, Vp	No. of Well Screen Volum
Time (mL/min)	(m/ft)	(m/ft) ecision Required :	"C	(mg/L) ±10 %	(mS/cm) ±3 %	±0.1 Units	(mV) ±10 mV	NTU ±10 %	(L)	Purged "
Start Purge 1412		ecision Kequirea:	±3 %		£3.70	10.1 antis	1101111	1		1
1418 100	4.08	0.49	25.3	0.46	11.52	1.69	-157,5	8.28		
423	4.40	0.81	25,4	0.35	11.13	7.60/	1-81,9	0.38		
<u> 428 60 .</u>	4.70	1.17	25.5	0:33	10,64	7.66	-4111	5,85		
1433	5.01 5.33	17/2	7513	0.32	10:46	7.87	and the same	5.70	<u></u>	
443 5/0	5/102	2.03	755	0:31	10.30	7.61	7,2	5.79		
448 54	5,91	7 32	25.7	0.30	10.26	7.62	-66-5	2.59		
1453	6.26	2.67	25,4	0,29	10.21	7.62	-61.2	0:64		
1458 SLQ	6,51		25.2	0.28	10.17	7.60	-58,2	1.32		
									Latina	
										<u> </u>
			<u></u>					Instru	ıment Control N	umbers
Comments: The pump intake will be placed at the	11		:	ve any sodiment of	compulated at the w	ell hottom	≕ Water Level Meter			
ne weii screen volume will be base	a on a 5-toot scree	en length (L). For	ımperiai units, v	's=π^(r)^L^ (2.54)	, wnere r and L are i	n inches.		And the second second		7
The drawdown from the initial wate Purging will continue until stabiliza	r level should not tion is achieved o	exceed 0.3 ft. The runtil 20 well scre	e pumping rate s een volumes hav	hould not exceed 6 e been purged (unl	00 mL/min. ess purge water rem		ti-parameter meter	YSI N	<u>F67607</u>	
urbid and appears to be clearing, or	unless stabilizati	on parameters are	varying slightly	outside of the stab	oilization criteria an	d appear to be	Turbidimeter	<u>NFO50</u>	<u> </u>	