tally Quality C	ontrol Report – Non-Construction
ROLE: Team # 1	DATE: 6-15-2020
	of 89°F, wind S@ 9-21 mph
1. ONSITE PERSONNEL (including subcontractor	
Bernard Bockisch	Organization  EA - Site Manager/Supervisor
Peter Feranci	EA - Site Health and Safetly Office
Dylan Schmeelk	Samplecs
Galveston Begage	Samplers -
carres for regarde	Man p. C.
X	
2. OPERATING EQUIPMENT	
Team #1	Team #2 Spare
YSI Professional Plus 18L100378 YSI Profe WH0003	ssional Plus 15K101396 YSI Professional Plus 15L100541 WH0002
MiniRAE 3000 592-915778   MiniRAE :	3000 592-915790   MiniRAE 3000 592-915579
WH0005 WH0004 Geotech Turbidimeter 18081855 Hach 210	WH0006 WH0006 UHach 2100Q 15100C045025 UHach 2100Q 15100C045025
WH0009	WH0007
Solinst Water Level Meter 253056 Solinst W WH0012	ater Level Meter 253053 Geotect Interface Probe 0001
3. DAILY SUMMARY (include QC samples collection the public and governmental employees, and pro	ed, deviations from planning documents, converstations with the
4. WORK PERFORMED (Indicate location, time, a	nd description of work performed by prime and/or subcontractors)
	er for KAFB-106236
0708 Arrive at KAFB-	
0813 Leave KAFB-1062	36 for KAFB-106235
0814 Arrive at KAFB-1	

DQCR Page 1 of 2

Reviewed by: \_\_\_\_\_, Messeyer

Reviewed date: \_\_\_6-18-2020

	DATE: 6-15-2540		
	PERFORMED (Continued) SAFB - 10603		
	Leave KAFB-106 255 for 031 clustes		
0907	Arrive at KAFB-106031 duster		
1032	Leave KAFB-106031 cluster for KAFB-106242 clus	fer	
1035	Arrive at KAFB-106242 cluster a		
1152	Leave KAFB-106242 cluster for 231 KAFB-1062	131	= lusta
1240	Arrive at KAFB-106231 cluster		
1240	Leave KAFB-106231 duster for field trailer		
1257	Arrive at field trailer		
1321	Leave field trailer for KAFB-106231 eluster		
1332	Arrive at KAFR-106231 cluster		
1347	Leave KAFB-106231 For field trailer		
1356	Arrise at field trailer		
E	nd of Day		
	` ~		
	ACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All used, and work performed during this reporting period is in compliance with the contract plans and specifications		
Name  ✓	Signature		
EA Engine	ering, Science and Technology Inc., PBC		
	DQCR Page 2 of 2  V. \. Messenger	ə	
Reviewed b	y:, Messenger Reviewed date: Reviewed date:		

ROLE:	DATE 6-16-2020
WEATHER: Partly Clouds, His	gh of 88°F, light brokeze
1. ONSITE PERSONNEL (including subcontractors	
Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Feranci :	EA - Site Health and Safetly Office
Dylan Schneelk	Samples
Galveston Begage	Samples
0 4	
2. OPERATING EQUIPMENT	
Team #1	Team #2 Spare
WH0003 WH0001	sional Plus 15K101396 YSI Professional Plus 15L100541 WH0002
WH0005 WH0004	000 592-915790 MiniRAE 3000 592-915579 WH0006
Geotech Türbildimeter 18081855 Hach 2100 WH0009	Q 15100C044633 Hach 2100Q 15100C045025 WH0007
Solinst Water Level Meter 253056 Solinst Water WH0012	ter Level Meter 253053 Geotech Interface Probe 0001
3. DAILY SUMMARY (include QC samples collected the public and governmental employees, and prob	d, deviations from planning documents, converstations with the
the public and governmentar employees, and prob	reins encountered and remedies applied)
	d description of work performed by prime and/or subcontractors)
0715 Leave field traile	5 for KAFB-106216 cluster
0715 Leave field traile 0721 Arrive at KAFB-101	of for KAFB-106216 cluster
0715 Leave field traile 0721 Arrive at KAFB-101	of for KAFB-106216 cluster 6216 cluster 6 cluster for KAFB-106222 cluster

DQCR Page 1 of 2

Reviewed by: \_\_\_\_\_. Messenger

Reviewed date: 6-18-2020

DATE: 6-16-2020	
4. WORK PERFORMED (Continued)	
0825 Leave KAFB-106222 cluster for KAFB-106204 dust	25
0930 Arrive at KAFB-106204 cluster	
0928 Leave KAFB-106204 duster for KAFB-106207 duster	an .
0930 Arrive at KAFB-106207 cluster	
1015 Leave KAFB-106207 cluster for field trailer	
1027 Arrive at field trailer	
1029 Leave Field trailer for KAFB-106216 cluster	
1039 Arrive KAFB-106216 cluster	
1100 pare KAFB-106216 cluster for KAFB-106222	
1102 Arrive at KAFB-106222	
1125 Leave KAFB-106222 For KAFB-106049	
1130 Arrive at KAFB-106049 cluster	
1240 Leave KAFR-106049 eluster for field trailer	
1301 Arrive at field trailer	
5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.	
Name Schweelk Signature	
EA Engineering, Science and Technology Inc., PBC	
DQCR Page 2 of 2	
Reviewed by: Reviewed date:	

December 2020

ROLE: Team #1	DATE: 6-17-2020
WEATHER: Mostly Sunny, high of	DATE: 6-17-2020  93°F, Winds Swa 10-18 mph  and government employees)
1. ONSITE PERSONNEL (including subcontractors	and government employees)
Name	Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter terarri	EA - Site Health and Safetly Office
Dylan Schweells	Sampler
Galveston Begage	Sampler
2. OPERATING EQUIPMENT	
Team #1 YSI Professional Plus 18L100378 YSI Profess	Team #2         Spare           sional Plus 15K101396         YSI Professional Plus 15L100541
WH0003 WH0001	WH0002
MiniRAE 3000 592-915778   MiniRAE 3000 592-915778   WH0004	000 592-915790 MiniRAE 3000 592-915579 WH0006
Geotech Turkid meter 18081855 Hach 2100	Q 15100C044633 Hach 2100Q 15100C045025
	ter Level Meter 253053 Geotech Interface Probe 0001
WH0012	d, deviations from planning documents, converstations with the
the public and governmental employees, and prob	
	/,
4. WORK PERFORMED (Indicate location, time, and	d description of work performed by prime and/or subcontractors)
	r for KAFB-106201 cluster
0649 Arrive at KAFR-1	06201 eluster
0733 Leave KAFB-106	5201 cluster for KAFB-106041
0741 Arive at KAFB-18	6041

DQCR Page 1 of 2

Reviewed by: . Messenger

Reviewed date: 6-18-7070

4 WORK PERFORMED (Outliness)	DATE: 6-17-2020
4. WORK PERFORMED (Continued)	000
0806 Leave KAFB-106041 for KAFB	7-106230
0807 Arrive at KAFB-106230	
0822 Leave KAFB-106230 for 247 KA	1FB-106241
0825 Arrive at KAFB-106241	
0851 Leave KAFB-106241 for KAFB-	106243
0852 Arrive at KAFB-106243	
0924 Leave KAFB-106243 for KAFP	1-106240
0931 Arrive at KAFB-106240	
0955 Leave KAFB-106240 for KAFB-	106244
0958 Arrive cet KAFB-106244	
1022 Leave KAFB-106244 for KAFE	3-106032 duster
1044 Arrive at KAFB-106032 duster	
H37x Leave KAPB-106032 cluster f.	OF KAFB-106248
1140 Arrive at KAFB-106245	*
1207 Leave KAFB-106245 for KAFB	106247
11214 Arrive at KAFB-106247	
1239 Leave KAFB-106247 for KAF	R-10834 elyster
1243 Arrive at KAFB-106S4 elister	0 1000121314
1355 Leave KAPB-10684 cluster for	fold to los
1358 Arrive at field + Pailer	TIEIL WALL
De Minister 1, elo Flates	
5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the aborequipment used, and work performed during this reporting period is in compliance with the noted	
above.	
Dylan Schnellk & the	
Name Signature	
EA Engineering, Science and Technology Inc., PBC	
DQCR Page 2 of 2	
Reviewed by: 6]. Messeyer	Reviewed date: 6-18-2020

ROLE: Team #1		DATE: 6-18-2020
WEATHER: High of 90°F, Smokes	y wind 6-12	mph@SSW
1. ONSITE PERSONNEL (including subcontractors a	and government employees)	
	Organization	
Besnard Bockisch	EA - Site Manager/Supervisor	
renal.	EA - Site Health and Safetly O	ffice
Dylan Schulelk Galveston Beggye	Semples	
Galseston Beggye	Sampler -	
	,	
	$\nearrow$	
2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
WH0003 WH0001	ional Plus 15K101396	YSI Professional Plus 15L100541 WH0002
WH0005 WH0004	00 592-915790	MiniRAE 3000 592-915579 WH0006
Geotech Turbidimeter 18081855 Hach 2100C WH0009	15100C044633	Hach 2100Q 15100C045025 WH0007
Solinst Water Level Meter 253056 Solinst Water WH0012	er Level Meter 253053	Geotech Interface Probe 0001
3. DAILY SUMMARY (include QC samples collected		
the public and governmental employees, and proble	ems encountered and remed	ies applied)
Used WHOO12 a	nd Solonist	lag Line at
KAFB-106211.		
	$\leftarrow$	
		,
	4	
	**	
4. WORK PERFORMED (Indicate location, time, and	description of work perform	ned by prime and/or subcontractors)
0638 Leave Field trai		
0649 Arrive at KAFB-		
0716 Leave KAFB-106		5-10657
0718 Arrive at KAFR-106	57	1000
Reviewed by: Messenger	DQCR Page 1 of 2 3	
¥ ^ ^		Reviewed date: 6-22-20

4 WORK P	ERFORMED (Continued)
	Leave KAFB-106S7 for KAFB-106\$3
	Arrive at KAFB-10693
	Leave KAFB-106S3 for KAFB-106S2
	Arrive at KAFB-10652
0855	Leave KAFB-106S2 for KAFB-106S9
	Arnive at KAFB-106 S9
0928	Leave KAFB-10659 for KAFB-106151
0929	Arrive at KAFB-106151
0959	Leave KAFBY-106151 for KAFB-106152
	Arrive at FAFB-106152
1039	Leave KAFB-106152 for KAFB-106S8
	Arrive at KAFB-106S8
1115	Leave KAFB-106SB for KAFB-106153
1116	Arrive at KAFB-106153
1136	Leave KAFB-106153 for KAFB-1065T
1137	
1204	Leave KAFB-106 SI tos KAFB-106149
1205	Arrive at KAFB-106149
1306	Leave KAFB-106149 for field trailer
1311	Arrive at KAPB & field trailer
1411	Leave field trailed for KAFB-106211
1918	Arrive at KAFB-106211
	Lost KAFB-106211 PID reading 0.0.
	Measure TD with Solonist STAGLINE SN:
***************************************	351978, and gauge water level with WHOO 12.
5. CONTRA	ACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All
equipment noted	used, and work performed during this reporting period is in compliance with the contract plans and specifications
above.	Schulelk Alle
Name	Signature
EA Engine	ering, Science and Technology Inc., PBC
	DQCR Page 2 of 2 3
Reviewed b	y: Massenger Reviewed date: C-22-20

December 2020

<b>p</b>		DATE: 6 - 18 - 2020
4. WORK P	ERFORMED (Continued)	
1451	Leave KAFB-106211 for field	trailer
1506	Arrive at field trailer -	
	1,000	
	/ .	
	/	
5. CONTRAI equipment u noted above.	CTOR'S VERIFICATION: I certify that to the best of my knowledge the above sed, and work performed during this reporting period is in compliance with the second second second second second second second second second sec	ve report is complete and correct. All ne contract plans and specifications
Dilar	Schweelk (	
Name	Signature	1
EA Enginee	ring, Science and Technology Inc., PBC 3 of 3	
	DQCR Page 2 of 2 m	
Reviewed by	Messenger	Reviewed date: 6-22-20

ROLE:   Can TT	Ty ( 2 - 0
WEATHER: Ligh 905 (of); clear sky	DATE: 7-6-2020
1. ONSITE PERSONNEL (including subcontractors	
Name	and government employees) Organization
Bernard Bockisch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safetly Office
Uylan Schneelk	Samples
Galveston Beggye	Sampler
2.0050.470.0	
2. OPERATING EQUIPMENT Team #1	
	Team #2 Spare  onal Plus 15K101396 YSI Professional Plus 15I 100541
WH0003 WH0001	WH0003
MiniRAE 3000 592-915778 MiniRAE 300 WH0004	00 592-915790   MiniRAE 3000 592-915579
Geotech Turbidimeter 18081855 Hach 2100Q	WH0006     15100C044633   Hach 2100Q 15100C045025
Solinst Water Level Meter 253056   Solinst Water	WH0007  Level Meter 253053 Geotech Interface Probe 0001
3. DAILY SUMMARY (include OC samples collected	
The state of the s	deviations from planning documents, converstations with the ms encountered and remedies applied)
Wells Sampled: KAR	FB-106236-436 KAFB-106235-438 " 236-470 " "235-477
,	" 236~470 " "235-472
1,	236 1917 11 11237-501
Barricades were	of set-up by
Sattwest Safety	- Barricaded wells are now
scheduled for tome	orrow (7-7-2020).
	*
4. WORK PERFORMED (Indicate location, time, and d	escription of work performed by prime and/or subcontractors)
0700 Leave field trailes	for KAFB-106236
0710 Arrive at KAFB-1063	236
0736 Sampled KAFB-1062	36-436
0752 Sampled KATB-10623	
	A
	ICR Page 1 of 2
Reviewed by:	Reviewed date: 7-24-2020

4. WORK	PERFORMED (Continued)	DATE: 7-6-2020
0814		
0816	Sampled KAFB-106236-499	
0827	Leave KAFB-106236 for KAFB-106 Arrive at KAFB-106235	235
0848	S -1 150 25	Manager and the second
0905	Sampled KAFB-106235-438	
	Sampled KAFB-106235-472	
0922	Sampled KAFB-106035-501	
0929	Leave KAFB-106235 for KAFB-	field trailer
0944	Arrive at field trailer	Tiero tracta
		,
	/ .	
. CONTRAC	TOR'S VERIFICATION: I certify that to the best of my knowledge the above red, and work performed during this reporting period is in compliance with the	eport is complete and correct. All
oted	ed, and work performed during this reporting period is in compliance with the c	contract plans and specifications
bove.		
ame	1 Schweelk tyll .	
A Engineeri	8ignature	
o ⊨uguiee∏	ng, Science and Technology Inc., PBC	
	DQCR Page 2 of 2	
eviewed by: _	1. Messenger	Reviewed date: 7-24-2020

ROLE:	eam#1	Quality Co	ontroi Report – Non-Cons		
WEATHER	Partly Cloudy	high o	f 97 11 W	DATE: 7-7-2020 ent biceze NW	<u> </u>
	PERSONNEL (including sub	contractors	and government employees	int breeze NW	05-12
riante			Organization	3)	
	erd Bockisch		EA - Site Manager/Superviso	or	
tete	r Ferrari		EA - Site Health and Safetly	Office	
Dyla	n Schmeelk	,	EA - Sampler		
Galve	eston Begage		EA-Sampler		
	*				
				446	
2. OPERAT	TING EQUIPMENT				
YSI Profess	Team #1 sional Plus 18L100378	VOLD 1	Team #2	Spare	
VH0003		YSI Profess WH0001	sional Plus 15K101396	YSI Professional Plus 15L100541	
MiniRAE 30 NH0005	000 592-915778		00 592-915790	WH0002 MiniRAE 3000 592-915579	
Geotech Tu	rbidimeter 18081855		Q 15100C044633	WH0006 Hach 2100Q 15100C045025	
Solinst Wat	er Level Meter 253056		er Level Meter 253053	WH0007 Geotech Interface Probe 0001	
3. DAILY S	UMMARY (include QC sample	s collected	, deviations from planning d	ocuments, converstations with the	
)	3	, and probit	enis encountered and remed	lies applied)	16
vells	Sampled: KAFB	1067	106, KAFB-106205	, KAFB-10604,	
	KAFB-1	06216	, KAFB-106217	. KAFB-106218	
	KAFR-18	6224	KAFR-106723	KAFB-106777	
	KAFB-10	6242	KAFB-106231	KAFB-106232	
	KAPB-10	6207	KAFB-106208, 6	KAFB-106232 CAFB-106209.	
*					X
000	found Wells KAF	B-106	029,30, and 31	have been paved	1
	over, Called t.	- have	barrica des tal	ier down while	
	issue sorted o	t wit	h the City		
				X	
WORK PE	RFORMED (Indicate location	time, and	description of work performe	ed by prime and/or subcontractor	rs)
638	Leave field trai	ler f	or KAFB-1062	204 cluster	<u> </u>
645	Acrive at KAFB-1	06204	tcluster		
703 .	Sampled KAFB-1	06206	87.5		
720	Sampled KAFB-1	06205			-
-			42		
	100000	DO	QCR Page 1 of 2		
viewed by:	J. Messenger		Ju	Reviewed date: 7-10-	2020

4. WORK PERFORMED (Continued)  DATE: 7-7-2020	
0740 Sampled KAFB-106204	
0749 Leave KAFB-106204 cluster for KAFB-106222 cluster	
-102 Arrive at KAPB-10622316cluster	
0811 Sampled KAFB-106216	
0830 Sampled KAFB-106217	
0848 Sampled KAFB-106218	
0852 Leave KAFB-106216 cluster for KAFB-106224 cluster	
UOST MINUE at KAPA-106224 cluster	
0915 Sampled KAFB-106224	
0935 Sampled KAFB-106223	
0950 Sampled KAFB-106222	
1000 And LIGHT 106224 cluster for KAFB-106029 duster	
1000 Mile at KAFB-106029 cluster	
1030 Leave KAFB-106029 cluster for KAFB-106242	
1032 Arrive at KAFB-106242	
1055 Sampled KAFB-106242	
1106 Leave KAFB-106242 cluster for KAFB-106231 cluster	
110 Arrive at KAFB-106231 eluster 1128 Sampled KAFR-106231	
10.000	
1144 Sampled KAFB-106232	
1154 Leave KAFB-106387, cluster for KAFB-106287 cluster	
100 Mile at KATR-106707 clueter	
226 Sample KAFB-106207	
251 Sampled KAFB-106208 303 Sampled KAFB-106209	
507 1 a alcate 100000	
CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All quipment used, and work performed during this reporting period is in compliance with the report is complete and correct. All	7
oted contract plans and specifications	
pove.	
Signature Signature	
A Engineering, Science and Technology Inc., PBC	
<b>%</b> 3	
DQCR Page 2 of 2 dm	
Reviewed date: 7-10-202	

December 2020

4. WORK PERFORMED (Continued)	DATE: 7-7-2020
1320 Les at Gas sta	tion (Cadigle 3 Gibson)
1320 Leave gas statio	n for field trailer
1129 Arrive at field	trailer
	<del>\frac{1}{2}</del>
/.	
CONTRACTOR'S VERIEICATION: Localife No. 1	
quipment used, and work performed during this rep	o the best of my knowledge the above report is complete and correct. All orting period is in compliance with the contract plans and specifications
pove.	The and openications
Julan Schweelk	the same
	Signature
A Engineering, Science and Technology Inc., PE	343
	JQCR Page 2 of 2 gm
eviewed by: Messenger	Reviewed date: 7-10-2026

ROLE: Teav #			
DATE: 1-9 de Jo			
WEATHER: CLEW Sonny High	of 98°F, wind W@ 9-16 mph (intermittent		
ONSITE PERSONNEL (including subcontractors     Name	organization		
Bernard Bockisch	EA - Site Manager/Supervisor		
Peter Ferrari	EA - Site Health and Safetly Office		
Dulan Schneek	EA- Samples		
Galveston Begaye	EA-Samples		
0 0			
2. OPERATING EQUIPMENT	The state of the s		
Team #1	Team #2 Spare		
YSI Professional Plus 18L100378 YSI Profess WH0003	sional Plus 15K101396 YSI Professional Plus 15L100541		
MiniRAE 3000 592-915778 MiniRAE 30	WH0002 MiniRAE 3000 592-915579		
Geotech Turbidimeter 18081855 Hach 21000	WH0006 Packed Pa		
Solinst Water Level Meter 253056 Solinst Water	WH0007		
WH0012			
3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, converstations with the the public and governmental employees, and problems encountered and remedies applied)			
Sumpled Wells: KAFB-106247, KAFB-106230, KAFB-106841,			
KAFR-106041	, KAFB-106050, KAFB-106051,		
KAFB-106049 K	AFB-106032, KAFB-106033, KAFB-106034,		
KAFB-106240, KAF	FB-106244		
	+		
4. WORK PERFORMED (Indicate location, time, and	description of work performed by prime and/or subcontractors)		
0700 heave field trailer for KAFB-106247			
0707 Acrive at KAFB-106247			
0728 Sampled KAFB-106	247		
0739 Leave KAFB-106247			
13/11 100 11/	ישורי וטי		

DQCR Page 1 of 2

Reviewed by: \_\_\_\_ Messenger

4. WORK	PERFORMED (Continued)  DATE: 7-8-2020
0753	Arrive at KAPB-106230
0808	Sampled KAFB-106230
0816	
0819	Leave KAFB-106230 For KAFB-106047 241  Arrive at KAFR-106047 241
0842	Sampled KAFB-106 04Th 241
0850	Lewe KAFB-106241 for KAFB-106041
0855	Arrive at KAFB-106041
0911	Sample KAFB-106041
0931	Leave KAFB-106041 for KAFB-106049=10ster
0933	Sample KAFB-106× Arrive at KAFB-106049 cluster
0995	Sampled KAFB-106050
1017	Sampled KAFB-106051
1030	Sampled KAFB-106049
1037	Leave KAFB-106049 for KAFB-106034 cluster
057	Arrive at KAFR-10634 cluster
1121	Sampled KAFB-106032
N	Sampled KAFB-106033
	Sampled KAFB-106034
	Leave KAFB-106034 for KAFB-106240
1200	Arrive at KAFB-106240
1225	Sampled KAFB-106240
237	Leave KAFB-106240 for KAFB-106244
239	Arrive at KAFB-106244
308	Sampled KAFB-106244
	Leave KAFB-106 244 for field trailer
CONTRAC	Arrive at field trailer — Shipping — ED — STOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All led, and work performed during this reporting period is in compliance with the contract plans and specifications
oove.	Schweelk Signature
A Engineeri	ing, Science and Technology Inc., PBC
	DQCR Page 2 of 2
viewed by:	Reviewed date: 7-10-2020

December 2020

ROLE:	lean #	7-9-2020	
WEATHE	er: Partly Clark 111 C	DATE: 7-9-2020	
1. ONSIT	E PERSONNEL (including subcontractors	98°F, wind E@ = 6mph.	
Ivaille		Organization	
_	pard Bockisch	EA - Site Manager/Supervisor	
Pete	rFerrari	EA - Site Health and Safetly Office	
	an Schmeelk	EA-Samples	
Galu	ester Begage	EA-Sampler	
	V V		
2 OPERA	TING EQUIPMENT		
Z. OI LIV	Team #1	ue I A	
YSI Profes		Team #2 Spare ional Plus 15K101396 YSI Professional Plus 15L100541	
MiniRAE 3	3000 592-915778 MiniRAE 30	WH0002 UH0002 MiniRAE 3000 592-915579	
WH0005 WH0004 WH0006 Geotech Turbidimeter 18081855 Hach 2100Q 15100C044633 Hach 2100Q 15100C045025			
Solinst Wa	WH0009   WH0007		
3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, converstations with the public and governmental employees and problems are approximately approximate			
Section Sectio	The state of the s	ins encountered and remedies applied)	
Well	\$ sampled: KAFB-10	6245, KAFB-106029, KAFB-106030,	
	KAFB-106031, KAFB.	-106243, KAFB-106201 KAFB-106202	
0650	Marise at KATB-10602	29 cluster to supervise Franklin's	
	Easthround Inc. sen	we buried vaults and in stall new	
	12 vasits at KAFB-	106029, KAFB-106030 and KAFB-106031	
0845	Allen Brandon arri	sed on site to take over	
	spervision of wa	Dr.K.	
Wells	sampled continued: 1	< AFR-106203, KAFB-106009, KAFB-10654	
		7.7.12 1003 (	
		X	
4. WORK P	ERFORMED (Indicate location, time, and o	description of work performed by prime and/or subcontractors)	
1618	Leave field trailer	tor KAFB-106245	
0620	Arrive at KAFB-1062		
	Sampled KAFB-10624	5	
2644	Leave KAFB-106245	for KAFB-106029 cluster	
	The second secon		

DQCR Page 1 of 2

Reviewed by: . Messenger

Reviewed date: \_ 7-10-2020

4. WORK	PERFORMED (Continued)	-
	Arrive at KAFB-106029 cluster	-
0901	Sampled KAFB-106029	
0825	Sampled KAFB-106030	
0829	Sampled B203-01	
DYII	Sampled KAFB-106031	
0919	Leave KAFB-106031= Befor for FABS-DE Sold +	ile
0728	Arrive at field trailer	
0955	Leave field office for KAFB-106243	
1006	Arrive at KAFB-106243	
1024	Sampled KAFB-106243	
1078	Leave KAFB-106243 for KAFB-106201 cluster	
1049	Arrive at KARB-106201 cluster	
419	KAFB-106201 Sampled	
1130	KAFB-106202 Sampled	
1145	KAFB-106203 Sampled	
1149	Leave KAFB-106201 cluster for KAFB-106009	
1200	Arnive at KAFB-100009	
1220	Sampled KAFB-106009	
1245	Leave KAFB-106009 for KAFB-10654	
1246	Arrive at KAFB-106SY	
13/3	Sampled KAFB-10684	
1326	Leave KAFB-106S4 for field trailer	
1330	Arrive at field trailer	
CONTRAC	TODIO I CONTROL I	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Dylan Schneelk

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: \_\_\_\_, Messerge

Reviewed date: 7-10-2020

ROLE: Team#	7 10 2 2 2 2	
	of 98°F light intermittent breeze	
1. ONSITE PERSONNEL (including subcontractors	101 10 light intermittent breeze	
Name	Organization	
Bernard Bockisch	EA - Site Manager/Supervisor	
Peter Ferrari	EA - Site Health and Safetly Office	
Dylan Schmeelk	EX-Sampler EX-Sampler	
Galveston Begaye	EA-Sampler	
2. OPERATING EQUIPMENT		
Team #1	Team #2 Spare	
YSI Professional Plus 18L100378 YSI Profess	sional Plus 15K101396 YSI Professional Plus 15L100541	
WH0003 WH0001	WH0002	
WH0005	000 592-915790 MiniRAE 3000 592-915579	
Geotech Turbidimeter 18081855 Hach 21000	Q 15100C044633 Hach 2100Q 15100C045025	
Solinst Water Level Meter 253056 Solinst Wat	er Level Meter 253053 Geotech Interface Probe 0001	
B. DAILY SUMMARY (include QC samples collected	d, deviations from planning documents, converstations with the	
governmental employees, and probl	ems encountered and remedies applied)	
Wells Sampled: KAFB-106	152 KAFB-106SI, KAFB-106149,	
KAFR-106S5 KAFT	3-10697, KAFB-10693, KAFB-10692,	
KAFB-10659 KAFR-1	06151, KAFB-106153, KAFB-10688	
The today, KAI Ball	50171, KAFB-106133, KAFB-10688	
WORK PERFORMED (Indicate location, time, and	description of work performed by prime and/or subcontractors)	
1651 Leave field trailer	Il Leave field trailer for KAFB-106157	
7653 Arrive at KAFB-10615:	Acrive at KAFB-106152 and notify APTIM of Haz yard entry	
116 Jam Bled KAFR IDGI	b Day sted KAFR INGIES	
1724 Leave KAFB-106152	or field trailer	
	QCR Page 4 of 2 gr	
eviewed by: Messenger	WON Faye TOIZ JU	
	Reviewed date: 7-74-2020	

4. WOR	( PERFORMED (Continued)	DATE: 1-10-2020
072	Arrive at field trailer	
0729	7 Leave field trailer for KAFB-1	0681
073	3 Arrive at KAFB-106SI	
0753	- Sampled KAFB-106Si	
0833	Leave KAFB-10651 For KAFB-11261	49
0834	Arrive at KAFB-106149	
09/0	Sampled KAFB-106149	
0929	Leave KAFR-106149 for KAFR-1065	35
0738	Arrive at KAFB-106SS	
0955	Sampled KAFB-10655	
1012	Leave KAFB-106S5 for KAFB-10603	29 cluster
1019	Arrive at KAFB-106027 dister	
1017	Leave KAFB-106029 cluster for KA	FB-10657
1021	Arrive at KAFB-10687	
1040	Sample KAFB-10687	
1102	Leave KAFB-10687 for KAFB-10683	
1126	Arrive at KAFB-10653	
	Sampled KAFB-10683.	
12.00	Leave KAFB-106S3 for KAFB-106S2	
1201	Arrive at KAFB-10683	
2221	Sampled KAFB-10682	
1238		
1239	Arrive of KAFR-10689	
1300	Sampled KAFB-10689	
1319	Leave KAFB-10659 For KAFB-106151	
1720	Arrive at KAFB-106151	
equipment u	CTOR'S VERIFICATION: I certify that to the best of my knowledge the above sed, and work performed during this reporting period is in compliance with the	report is complete and correct. All contract plans and specifications
above.		
Name	hule 6	
	Signature ring, Science and Technology Inc., PBC	
	DQCR Page 2 of 2	
	5 45 1 1 age 2 01 4	

	4. WORK	PERFORMED (Continued)	DATE: 7-10-20-20
	1336	Sampled KAFB-106151	
1348	1488	Leave KAFB-106151 for KAFB-	10/
<i>y</i> . <b>0</b>	1352	Arrive at KAFB-106153	106153
	1418	Sampled KAFB-106153	
	1428	Leave KAFB-106153 for KAFB-1065	
	1419	Arrive at KAFB-10638	5 8
	1500	Sampled KAFB-10658	
X-	1530	Leave KAFB-106S8 for Tieb	15/901
	1530	Leave KAFB-10658 for field to	railer 10 day yourd
	1536	Arrive at field trailer	91161
		miles walles	
.			
		./	
			·
		<u>/·</u>	
		,	
no	CONTRAC quipment us oted oove.	TOR'S VERIFICATION: I certify that to the best of my knowledge the above ed, and work performed during this reporting period is in compliance with the	report is complete and correct. All contract plans and specifications
ar.	- (	meelk a	
Na	ame	Signature	
EA	A Engineeri	ng, Science and Technology Inc., PBC	
		DQCR Page 2 of 2 dr	
Re	eviewed by:	J. Messenger	Reviewed date: 7-24-2020

ROLE: Tean #1	
WEATHER: Clear high of 98°F windy with a Sand storm.	
WEATHER: Clear, high of 78 F windy with a Sand storm.	
ONSITE PERSONNEL (including subcontractors and government employees)     Name     Organization	
Bernard Backisch EA-Site Manager/Supervisor	
Peter Ferrari EA - Site Health and Safetly Office	
Galveston Beaase EA- Sampler	
Galveston Begange Ex-Sampler	
4	
2. OPERATING EQUIPMENT	
Team #1 Team #2 Spare  YSI Professional Plus 18L100378  YSI Professional Plus 15K101396  YSI Professional Plus 15L100374  T	
WH0003 WH0001 WH0002	
MiniRAE 3000 592-915778	
Geotech Turbidimeter 18081855 Hach 2100Q 15100C044633 Hach 2100Q 15100C045025 WH0009 WH00007	
Solinst Water Level Meter 253056   Solinst Water Level Meter 253053   Geotech Interface Probe 0001	
3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, converstations with the	
the public and governmental employees, and problems encountered and remedies applied)	
Sampled ER203-01 (Haz), KAFB-106005.	
4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)	
34 Leave field trailer for KAFB-106005	
10.37 Arrive at KAFB-106005 and garge: 169.03 to NAPL	
469.26 to Water.	
110 Begin Brailing for 1 hr - 462.07 DTW (no measosable NARL)	
DQCR Page 1 of 2	
Reviewed by: Reviewed date: 7-24-2020	

eave KAFB-106005 for field traviled whive at field trailer
mive at field trailer
moral field trailer
/
/
<del>/</del>

ROLE: Team #1		
NOLE. TO CALL	97°F, wind We 8-17 mph.	
1. ONSITE PERSONNEL (including subcontractors	174 wind W@ 8-17 mph.	
Name	Organization	
Bernard Bockisch	EA - Site Manager/Supervisor	
Peter Ferrari	EA - Site Health and Safetly Office	
Dylan Schmeelk Galveston Begage	EA-Samples EA-Samples	
Galveston Beggye	EA-Sampler	
2. OPERATING EQUIPMENT		
Team #1  YSI Professional Plus 18L100378	Team #2 Spare	
WH0003 WH0001	ional Plus 15K101396 YSI Professional Plus 15L100541 WH0002	
WH0005 WH0004	00 592-915790 MiniRAE 3000 592-915579 WH0006	
WH0009	Q 15100C044633 Hach 2100Q 15100C045025 WH0007	
WH0012	Geotech Interface Probe 0001	
3. DAILY SUMMARY (include QC samples collected the public and governmental employees, and probl	, deviations from planning documents, converstations with the	
	02 at 1011, and KAFB-106012R	
at 1240.		
4. WORK PERFORMED (Indicate location, time, and	description of work performed by prime and/or subcontractors)	
WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)  O41 Leave field trailer for < 90-day yard		
1050 Leave <90-day year & For KAPR-106012R		
1051 Arrive at KAFB-10		

DQCR Page 1 of 2

4. WORK P	PERFORMED (Continued)	-
10 C C	Lid Grant (Continued)	-
1338	Leave KAFB-106012R for field trailer Arrive at field trailer	
1345	Arrive at field trailer	7
		***************************************
		-
		_
		7
/		$\exists$
		1
		1
		-
5. CONTRAC	CTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All sed, and work performed during this reporting period is in compliance with the contract plans and specifications	
noted above.	The contract plans and specifications	
	Schneek Elle.	
Name	Signature	
EA Engineer	ring, Science and Technology Inc., PBC	
	DQCR Page 2 of 2	
Reviewed by:	Reviewed date: 7-24-2020	

ROLE: Team #1	Solution Report – Non-Construction	
ROLE: 1eam	DATE: 7-15-2020	
WEATHER: Fartly cloudy high of 94 to and prote +15		
(morating dabdolaractors and government employees)		
	Organization	
Bernard Bockisch	EA - Site Manager/Supervisor	
Peter Festari	EA - Site Health and Safetly Office	
Dylan Schneelk	EX-Samples	
Galveston Begaye	EA-Sampler	
	<b>X</b>	
2. OPERATING EQUIPMENT		
Team #1	Team #2 Spare	
	ssional Plus 15K101396 YSI Professional Plus 15L100541	
WH0003 WH0001 MiniRAE 3000 592-915778 MiniRAE	WH0002	
WH0005 WH0004	3000 592-915790 MiniRAE 3000 592-915579 WH0006	
Geotech Turbidimeter 18081855 Hach 210 WH0009	0Q 15100C044633 Hach 2100Q 18100C045025	
	ater Level Meter 253053   Geotech Interface Probe 0001	
3. DAILY SUMMARY (include QC samples collected	ed, deviations from planning documents, converstations with the	
the public and governmental employees, and pro	blems encountered and remedies applied)	
Wells sampled: k	AFB-106101, KAFB-106102,	
KAFB-1066	003, KAFB-106013, KAFB-106098	
	106018 )	
. A		
	X	
	<b>'</b>	
4. WORK PERFORMED (Indicate location, time, an	d description of work performed by prime and/or subcontractors)	
0651 Leave field traile	er for KAFB-106101 cluster	
0653 Arrive at KAFB-K	06101 custer	
07435 Sampled KAFB-106101		
0921 Sampled KAFB-10610:		
The state of the s	X.	
	DOCR Page 1 of 2	

0741

4. WORK PERFORMED (Continued)	DATE: 7-15-2020
James of Kill D. 100003	
1137 Leave KAFB-106/01 cluster for t	celd drailer
1140 Arrive at Field traile	<i></i>
1205 Leave tield trailer for KAFI	3-106013 cluster
MITOL & PATION 100013 cluster	
1313 Sampled KAFB-106013 1451 Sampled KAFB-106098	
TOUR RITE TOURS	_
1545 Leave KAFB-106098 for field	trailer
1600 Arrive at field trailer	
	. /
/-	
5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the abore equipment used, and work performed during this reporting period is in compliance with the above.	ve report is complete and correct. All he contract plans and specifications
Dylan Schmelk Signature	>
EA Engineering, Science and Technology Inc., PBC	
DQCR Page 2 of 2	

ROLE: Team#	DATE: 7-16-20			
MEATHER: Partly Cloudy High of 9	PF wind S @ 8-2H with			
1. ONSITE PERSONNEL (including subcontractors	s and government employees)			
INAILE	[()rganization			
Bernard Bockisch	EA - Site Manager/Supervisor			
Peter Ferrari	EA - Site Health and Safetly Office			
Dylan Schmeelk	EA-Sampler EA-Sampler			
Galveston Beggye	EA-Sampler			
. 7				
2. OPERATING EQUIPMENT				
Team #1	Team #2 Spare			
WH0003 WH0001	sional Plus 15K101396 YSI Professional Plus 15L100541 WH0002			
MiniRAE 3000 592-915778   MiniRAE 30 WH0005   WH0004	000 592-915790 MiniRAE 3000 592-915579			
TVT TCCC+	WH0006 Q 15100C044633 Hach 2100Q 15400C045025			
	ter Level Meter 253053 Geotech Interface Probe 0001			
3. DAILY SUMMARY (include QC samples collected	d, deviations from planning documents, converstations with the			
the public and governmental employees, and prob	lems encountered and remedies applied)			
Wells sampled: KATB-1	106097, KAFB-106004, KAFB-106100,			
KAFB-10	6099.			
A WORK PERSONNER (I. II.				
4. WORN PERFORMED (Indicate location, time, and	description of work performed by prime and/or subcontractors)			
0652 Leave field trailer	for KAFB-106097			
0703 Arrive at KAFB-10609	17			
0802 Sampled KAFB-10609	7			
0843 Leave KAFB-106097	1 for KAFB-106100 cluster			

DQCR Page 1 of 2

Reviewed by: \_\_\_\_\_\_. Messenger

4. WORK F	PERFORMED (Continued)
0847	
	Arrive at KAFB-106004  Sampled KAFB-106004
1119	Sampled KAFR-106100
1311	S   1   1   1   1   1   1   1   1
	Sampled KAFR-106099 Leave KAFB-106100 cluster for field trailer
1418	Arrive at field trailer
110	The to trailer
-	
	/ -
/	
CONTRA	
equipment us noted above.	CTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All sed, and work performed during this reporting period is in compliance with the contract plans and specifications
DISCH	magalle S
iame	Signature
EA Engineer	ing, Science and Technology Inc., PBC
	DQCR Page 2 of 2
Reviewed by:	Reviewed date: 7-24-2020

WEATHER: MATHOR COUNTS OF THE PERSONNEL (including subcontractors and government employees)  Name  General Bockisch  EA-Sile Manager/Supervisor  Peler Ferrari  EA-Sile Health and Safetly Office  Galve For Regage  TECH TIT  Spare  2. OPERATING EQUIPMENT  Team #2  Spare  VSI Professional Plus 15L100378  WH-1003  WH-1003  WH-1003  WH-1003  WH-1003  WH-1003  WH-1003  WH-1005  WH-1005  WH-1005  WH-1005  WH-1005  WH-1005  WH-1006  Solinst Water Level Meter 253056  WH-1006  Solinst Valler Level Meter 253056  WH-1006  WH-1007  WH-1007  WH-1007  WH-1007  WH-1007  WH-1007  WH-1006  WH-1007	ROLE: 12am #1 DATE: 07-17-2020	
1. ONSITE PERSONNEL (including subcontractors and government employees) Name Bernard Bock 1864 EA-Site Manager/Supervisor Refer Ferrars EA-Site Manager/Supervisor Refer Ferrars EA-Site Health and Safetly Office  TECH TIT  2. OPERATING EQUIPMENT Team #1 Team #2 YSI Professional Plus 16:100378 Will Plus 16:100378 Will Plus 16:100378 Will Professional Plus 16:100378 Will Plus	WEATHER: Partly clouds NE wind YMPH	
Bernard Bockisch  EA-Site Health and Safetly Office  Calves for ferrari  EA-Site Health and Safetly Office  Calves for fleggye  TECHTT  2. OPERATING EQUIPMENT  Team #1  YSI Professional Plus 18/100378  WH-0003  WH-0005  WH-0005  WH-0005  WH-0005  WH-0006  WH-0006  WH-0006  Geotech Turkfulfderfer 18081855  WH-0005  Solinst Water 18081855  WH-0006  Solinst Water 18081855  WH-0006  Solinst Water 18081855  Solinst Water 18081855  WH-0006  Solinst Water 18081855  Solinst Water 18081855  WH-0006  WH-00	ONSITE PERSONNEL (including subcontractors and government employees)	
Refer Ferrari  Galveston Begage  TECH III  2. OPERATING EQUIPMENT Team #1 Team #2 Spare  YSI Professional Plus 18L100373 WH0001 WH0001 WH0002 WH0003 WH0001 WH0002 Minirace 3000 592/915778 WH0002 Minirace 3000 592/915778 WH0003 WH0000 Geotech Turbidigbeef 1808/1855 Hach 21000 1510000445033 Hach 21000 259/01578 WH00009 WH0000 Geotech Turbidigbeef 253056 Solinat Water Level Meder 253056 WH0000 Solinat Water Level Meder 253056 WH0000 Solinat Water Level Meder 253056 WH0000 WH0000  WH00	Organization	
2. OPERATING EQUIPMENT  Team #1  YSI Professional Plus #181.00378  WH-0001  WH-0001  WH-0002  WH-0003  Minirar 3000 \$92.915.758  WH-0004  WH-0003  Minirar 3000 \$92.915.759  WH-0004  WH-0005  WH-0006  Geotech Turbidipater 13031855  Hach 21000 \$92.915.700  WH-0009  WH-0009  Solinst Water Level Meter 253058  WH-0009  WH-0009  WH-0009  Solinst Water Level Meter 253058  WH-0009  WH-0		
2. OPERATING EQUIPMENT Toam #1  YSI Professional Plus 18L100378 WH-0002 WH-0003 WH-0003 WH-0003 WH-0003 WH-0003 WH-0003 WH-0003 WH-0003 WH-0005 WH-0005 Geotech Turbididater 18081855 Hand 21000 151000044633 WH-0005 WH-0005 Solinet Water Level Meter 253056 Solinet W		
Toam #1	Galveston Begage TECHIII	
Toam #1		
Toam #1		
Toam #1	The state of the s	
Toam #1		
Toam #1		
VSI Professional Plus 18L100378		
WHOOOS	YSI Professional Plus 18L100378 YSI Professional Plus 15K101396 YSI Professional Plus 15L100541	
WHOOOS  Geotech Turbidipater 18081855   Hach 2100Q 15100C044633   Hach 2100Q 15100C045025   WHOOOS  Solinst Water Level Meter 253056   Solinst Water Level Meter 253050   Geotech Interface Probe 0001    3. DALLY SUMMARY (include QC samples collected, deviations from planning documents, converstations with the the public and governmental employees, and problems encountered and remedies applied)  Wells O + M: KASB-106 247   ASB-106 057   MARB-106 155    WASB-106 024   MARB-106 050   MARB-106 153   MARB-106 155    WASB-106 051   MARB-106 050   MARB-106 050   MARB-106 050    WASB-106 051   MARB-106 050   MARB-106 050    WHOOOS  WHOOOS  WHOOOS  WHOOOS  WHOOOS  WASB-106 050   MARB-106 050   MARB-106 050    WHOOOS  WHOO	WH0003 WH0001 (3/13 WH0002	
Solinst Water Level Meter 253056 Solinst Water Long Meter 253053 Solinst Water Level Meter 253056 Solinst Water Long Meter 253053 Solinst Water 253	WH0005 WH0004 WH0006	
3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, converstations with the the public and governmental employees, and problems encountered and remedies applied)    Wells O+M: KARB-106 247   ARB-106153   KARB-106155     WARB-106024   KARB-106046   WARB-10603   KARB-106154     WARB-106024   KARB-106046   WARB-10603   KARB-106078     WARB-10605   WARB-106078   WARB-106078   WARB-106078     WARB-10605   WARB-106078   WARB-106046     WARB-10607   WARB-106078   WARB-106059   WARB-106059     WARB-10605   WARB-106060   WARB-106059   WARB-106063     WARB-10605   WARB-106060   WARB-106062     WARB-106064   WARB-106060   WARB-106063     WARB-106064   WARB-106060   WARB-106063     WORK PERFORMED (indicate location, time, and description of work performed by prime and/or subcontractors)    OBS   STAND - 106247   WARB-106060     OTIS   WARB-106247   WARB-106060     OTIS   WARB-106247   WARB-106060     OTIS   WARB-106047   WARB-106047     OTIS   WARB-106047   WARB-106047   WARB-106047     OTIS   WARB-106047   WARB-106047   WARB-106047     OTIS   WARB-106047   WARB-106047   WARB-106047   WARB-106047     OTIS   WARB-106047	WH0009 WH0007	
Wells Of M: KASB-106247   ASB-106000, WASB-106155     Wells Of M: KASB-106006, WASB-106153, WASB-106155     WASB-10638, WASB-106006, WASB-106001, WASB-106159     WASB-106014, WASB-106016, WASB-10607, WASB-106078     WASB-106018   WASB-106027, WASB-106045     WASB-106017, WASB-106001, WASB-106151, WASB-106062     WASB-106017, WASB-106000, WASB-106151, WASB-106062     WASB-106059, WASB-106000, WASB-106059, WASB-106152     WASB-106061, WASB-106000, WASB-106062, WASB-106063     WASB-106061, WASB-106000, WASB-106062, WASB-106063     WASB-106061, WASB-106000, WASB-106062, WASB-106063     WASB-106061, WASB-106000, WASB-106062, WASB-106063     WASB-106061, WASB-106000, WASB-1060	WHOO12	
Wells O + M: KASB-106247   ASB-106007, WASB-106155     WASB-10658, WASB-106006, WASB-106153, WASB-106154     WASB-106024, WASB-106016, WASB-106001, WASB-106018     WASB-106018, WASB-106016, WASB-106007, WASB-106018     WASB-106016, WASB-106027, WASB-106046     WASB-106017, WASB-106018, WASB-106151, WASB-106069     WASB-106059, WASB-106060, WASB-106059   WASB-106152     WASB-10652, WASB-106008, WASB-106062, WASB-106063     WASB-106064, WASB-106008, WASB-106202, WASB-106203, WASB-106205     4. WORK PERFORNIED (Indicate location, time, and description of work performed by prime and/or subcontractors)    O652   EST trailer to KASB-106247     D711   WSA MASB-106247   WASB-106207     DQCR Page Fot 3	DAILY SUMMARY (Include QC samples collected, deviations from planning documents, converstations with the the public and governmental employees, and problems encountered and remedies applied)	
MASS-106024, KASS-106148, KASS-106001, KASS-106149,  KASS-10651, MASS-106016, KASS-106077, KASS-106078,  MASS-106180, MASS-5863411, KASS-106045,  KASS-106017, MASS-106018, MASS-106151, MASS-106046,  KASS-106017, MASS-106018, MASS-106059, KASS-106069  KASS-10659, KASS-106060, MASS-106059, KASS-106063  MASS-10659, KASS-106008, KASS-106062, KASS-106063,  MASS-10604, MASS-106008, KASS-106062, KASS-106063,  MASS-10604, MASS-106008, MASS-106062, KASS-106063,  MASS-10604, MASS-106008, MASS-106062, KASS-106063,  MASS-10604, MASS-106008, MASS-106062, MASS-106003  MASS-10604, MASS-106007, MASS-106007  DOCC PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)  DOCC PAGE NOTE  DOCC PAGE N		
MASS-106024, KASS-106148, KASS-106001, KASS-106149,  KASS-10651, MASS-106016, KASS-106077, KASS-106078,  MASS-106180, MASS-5863411, KASS-106045,  KASS-106017, MASS-106018, MASS-106151, MASS-106046,  KASS-106017, MASS-106018, MASS-106059, KASS-106069  KASS-10659, KASS-106060, MASS-106059, KASS-106063  MASS-10659, KASS-106008, KASS-106062, KASS-106063,  MASS-10604, MASS-106008, KASS-106062, KASS-106063,  MASS-10604, MASS-106008, MASS-106062, KASS-106063,  MASS-10604, MASS-106008, MASS-106062, KASS-106063,  MASS-10604, MASS-106008, MASS-106062, MASS-106003  MASS-10604, MASS-106007, MASS-106007  DOCC PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)  DOCC PAGE NOTE  DOCC PAGE N	WASB-10658, WASB-106006, WASR-106153 WASR-106154	
### 10651, ### 106076, ### 106077 ### 106078,  #### 106150, ### 106027, #### 106044, #### 106045,  #### 106016, #### 106027, #### 106156, #### 106046,  #### 106017, #### 106093, #### 106151, #### 106069  #### 10659, #### 106060, #### 106059, #### 106152,  #### 10652, #### 106008, #### 106063, #### 106063  #### 106064, #### 106001, #### 106062, #### 106063  #### 106064, #### 106001, #### 106062, #### 106203, #### 106245  #### 106064, #### 106001, #### 106063, #### 106245  #### 106064, #### 106001, #### 106007  #### 106245  #### 106047 ##### 106047  #### 106047 ##### 106047  ##### 106047 ####################################	Laco We said Marco we will be a faithful to the	
MARS-106150, MASB-106027, MISB-106049, MASB-106045,  MASB-106016, MASB-106048, MASB-106156, MASB-106046,  MASB-106047, MASB-106060, MASB-106151, MASB-106069,  MASB-10659, MASB-106060, MASB-106069, MASB-106152,  MASB-10652, MASB-106008, MASB-106062, MASB-106063,  MASB-106064, MASB-106008, MASB-106062, MASB-106203, MASB-106245  4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)  0652	Large is all them the	
MARGINGO 16, MASB-9863411, MAFB-106156, MASB-106046, MASB-106047, MASB-106060, MASB-106059, MASB-106069  MASB-10659, MASB-106060, MASB-106062, MASB-106063  MASB-106064, MASB-106008, MASB-106062, MASB-106063  MASB-106064, MASB-106001, MASB-106202, MASB-106203, MASB-106245  4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)  0692	M 1/100 10 C100 1000 1000 1000 1000 1000	
MAST 106047, MAST 106048, MAST 106151, MAST 106069  MAST 10659, MAST 106060, MAST 106059, MAST 106152,  MAST 10652, MAST 106060, MAST 106062, MAST 106063  MAST 106064, MAST 106008, MAST 106202, MAST 106203, MAST 106245  4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)  0652	WARRANCON WARR EBROWN KARRANCIEC PORES	
MARY 10659, KARB 106060, KARB 106059, KARD-106152,  KARB-10652, KARB-106008, KARB-106062, KARB-106063  MARB-106064, MARB-106201, MARB-106202, KARB-106203, KARB-106245  4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)  0652   EST frailer to KARB-106247  0702   Armed at KARB-106247  0711   LEST KARB-106247 to MARB-106007  0713   Armed at MARB-106007  DQCR Page Xof	1.45	
#AFB-10652, #AFB-106008, #AFB-106062, #AFB-106063  #AFB-106064, #AFB-106201, #AFB-106202, #AFB-106203, #AFB-106245  4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)  0652		
4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)  4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)  OBSZ LEST Trailer to KASB-106247  O702 Arrived at MASB-106247  O711 LEST MASB-106247 to MASB-106007  O713 Arrived at MASB-106007  DQCR Page X of B		
0652 lest trailer to KASB-106247  0702 Arrived at MASB-106247  0711 lest MASB-106247 to MASB-106007  0713 Arrived at MASB-106007  DQCR Page X of B		
0652 lest trailer to KASB-106247  0702 Armed at MASB-166247  0711 lest MASB-166247 to MASB-106007  0713 Armed at MASB-106007  DQCR Page Not B	4. WORK PERFORMED (Indicate location time and description of work performed).	6245
0711 lest MASB-106247 to MASB-106007 0713 Arrord at MASB-106007  DQCR Page X of B	6/C2   C4	
0711 lest MASB-106247 to MASB-106007 0713 Arrord at MASB-106007  DQCR Page X of B	0702 Arried at KASB-106247	
DQCR Page X of B		
DQCR Page of B		
Reviewed by: 1 of 3 Reviewed date: 7-24-2020		
	Reviewed by: 16f 3 Reviewed date: 7-24-2020	

4 WORK BI	ERFORMED (Continued)
0717	184 ABB-106007 to ABB-106155
0719	Armed at MASB-106195 \$00
0725	LEST MASB-106155 fo MASB-10658
0726	fravel at hAfB-10658
0734	1287 MASB-10658 to MASB-106153
0735	Amorel of 6/18-106153
0740	1est MAGB-106153 to MAGB-106154
0741	Amired at MASB-146154
0747	LOSA KAPB-106154 & GARB-106024
0748	Arrived at 1/493-106024
0753	LEST MASB-106024 to MARB-106148
0754	Arrived at MASB-126148
0758	184 KAPB-10680+148 to KAPB-106001
0759	Arrived at MAB-106001
0804	LEST PARB-106001 to MAGB-106149
0805	Arraved at 1/1873-106149
0811	1884 KAP3-106149 to KAP3-106SI
08/2	Arrived at KASA-10651
08/5	LEFT KASB-10651 to KASB-106076 cluster
0816	Armed at MASS-106076 cluster
0828	lest MACB-106076 chester 2 MASB-106150
0829	Armed at pASB-106150
0833	1054 KAPB-106150 to KASPB-106044 cluster
0839	Arrored at MARB-106044 cluster
0850	Left hAFB-106044 cluster to MASB-106016
0855	Arred at 4A83-106016
10100	TOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All sid, and work performed during this reporting period is in compliance with the contract plans and specifications
above.	1. Bearing Off
Name	for the are
EA Engineerir	ng, Science and Technology Inc., PBC
	DOCP Page 2 of 2

December 2020

2 of 3 Reviewed date: <u>7-24-2020</u>

4. WORK PERFORMED (Continued)	DATE: 07-17-2020
0858 left MAFB-106016 to	UN FOR JUST 2001
0900 Armel at 4/18/2 34/1	A/N/2-406 3411
0903 lest MACB-3411 to	KAPB-166156
0904 Arrored at MACB-10615	6
0909 lest AAGB-106156 to 0924 Arrorel at MAGABB Vale	eno gas
0939 lest Valengas to	trailer
0940 Armed of tracker	
0948 left trailer to KNB-	106046 duster
0954 Armed at 11ABB-106040	6 chister
1013 (est MAPB-106.046 chus	for to 4A5B-106151
1019 Arrived of 4AFB-10613	
1024 lest MAFB-106157 to	4AFB-166069 cluster
1025 Arried at KAFB-106061	cluster
1047 Cest 4203-106061 chis	les L 4813-106152
1049 Armed at 4AP3-10615	2
1057 lest 4APB-106152 to	4A8B-10632 chister
1058 Arroyed at 4A8B-106	52 cluster
1105 Jest KAFB-10652 cl	when to KAPB-106062 dwfer
1106 Armel at 4AB-106062	2 christer
1122 Left 4APB-106062 chung	ler to KAPB-106201 chister
1133 Armed at HASB-106201	chister
1145 lest HAPB-106201 clust	er to UN195-106243
115B 189 ARB-106245 to 1	ha 12 -
1000 1	of DAY
5. CONTRACTOR'S VERIFICATION: I certify that to the best of my k	powledge the chave recent is a second in
noted	compliance with the contract plans and specifications
1941000 Pelace	
Name Signature	
EA Engineering, Science and Technology Inc., PBC	02
DQCR Page 2	GP of 2
Reviewed by:	0F3 Reviewed date:

ROLE: Team # 1					
				DATE: 7-20-2076	2
WEATHER TO THY Cloudy high of 95 F wind SF 10 1.					
1. ONSITE PERSONNEL (including Name	subcontractors	and government emp	loyees	5)	
Bernard Bockisc	h	Organization  EA - Site Manager/Su	perviso	)r	*******************************
Peter Ferrari		EA - Site Health and S			***************************************
Dylan Schmeelk		Ex- Samo	les		
Galveston Begay	10	- Saud	er		
Amy Kosebroug	h	EA - Samp	ler		
	,				
			And the second of the second	21	
					***************************************
2. OPERATING EQUIPMENT			-		
Team #1		Team #2		Spare	
YSI Professional Plus 18L100378 WH0003	YSI Professi WH0001	ional Plus 15K101396		YSI Professional Plus 15L100541	
MiniRAE 3000 592-915778 WH0005		00 592-915790		WH0002 MiniRAE 3000 592-915579	
Geotech Turbidimeter 18081855	Hach 21000	15100C044633		WH0006 Hach 2100Q 15100C045025	
Solinst Water Level Meter 253056	☐ WH0009 ☐ Solinst Wate	er Level Meter 253053		WH0007 Geotech Interface Probe 0001	
3. DAILY SUMMARY (include QC sar	WH0012			•	
the public and governmental employ	rees, and proble	ms encountered and	ning a	ocuments, converstations with th	ie
		onocumered and	remet	nes applied)	
·					
4. WORK PERFORMED (Indicate loca	tion, time, and	description of work pe	erform	ed by prime and/or subcontractor	rs)
0638 Leave field	trailer t	FOR KAFB-	106	045	
0644 Arrive at KA	4FB-106	045 cluste	25		
748 Leave KAFB-106045 elster for field trailer					
0754 0804 Arrive a	+ field	+ 00 TIE	- 10	man let	
1 11/1	Liela	Trailed			
	D	QCR Page 1 of 2/3			

December 2020

4. WORK	PERFORMED (Continued)	DATE: 7-20-2020
0804		KATR 100001
0814	Arrive at KAFB-106201 cluste	MATO-106201 eluster
0838	Leave KAFB-106201 cluster for	VAFD 106219 cluster
0846	Arrive at KAFB-106219 cluster	KAFR-119-61-35
0913	Leave KAFB-186219 clustes for	MER-INCORY (
0916	P& Arrive at KAFR-106207 ch	1041 15 106 20 / cluster
0943	Leave KAFB-106207 for KAFB-1	15ter
1062	1 con a MAFRICA (27)	069 231 cluster
1008	Leave KAFB-106231 cluster for k	CATB-106029 cluster
1043	Arrive at KAFB-106029	
1047	Leave KAFB-106029 cluster for	KAF3-106241
11/1	Arrive at KAFB-106241	
	Leave KAFB-106241 for field	1 trailer
1121	Arrive at field trailer	
1126	Leave field trailer for KAFB-	106021
1140	Arrive at KAFB-106021	
1153	Leave KAFB-106021 for KAFB-1	6(72)
1214	Arrive at KAFB-106236	6436
1234	Leave KAFB-106236 for KAFB-	106226 01/6400
1238	Arrive at KAFB-106206dvoter	100 206 Charles
1305	Leave KAER-IBC 200	1
1307	Leave KAFB-106 206 cluster for Arrive at KAFB-106216 cluster	KAFB-106216 cluster
1329	Leave LAFR-106216 cluster	
	Leave KAFB-106216 cluster for Arrive at KAFB-106222 cluster	KAPB-106222 cluster
	Levie KAFP-196 222 Chiter	1/1005
111	Leave KAFB-106222 elister for Arrive at KAFB-106235	KAFB-106235
	1 = 1 1 1 2 10 0 = 1	
5. CONTRAC	TOR'S VERIFICATION: I contify that to the	
above.	sed, and work performed during this reporting period is in compliance	with the contract plans and specifications
1	SI COLL	
Name	Schulelk	
A Engineeri	ing, Science and Technology Inc., PBC	
	Margue / DQCR Page 2 of 2	2 of 3
eviewed by:	. Messenger	Reviewed date:
	$\cup$ $\cup$	We viewed date:

4. WORK PERFORMED (Continued)	DATE: 7-20-2020
4. WORK PERFORMED (Continued)	
1432 Arrive at field trailer -	
	- Control of the Cont
/-	
. /	
/ .	
5 CONTRACTOR'S VEDICICATION, Locality No. 11.	
<ol><li>CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the a equipment used, and work performed during this reporting period is in compliance with noted.</li></ol>	above report is complete and correct. All
noted .	in the contract plans and specifications
above.	
Dylan Schweek the	
Name Signature	The second and the se
EA Engineering, Science and Technology Inc., PBC	
DQCR Page 2 of 2	
DQCR Page 2 of 3  Reviewed by:	- 11 1 2
The scarpe	Reviewed date: 7-24-2020

ROLE: Team#1	, and the state of		
7	DATE: 7-20-2020		
WEATHER: tartly cloudy high	WEATHER: Partly Cloudy high of 95°F, wind SE@ 7-18 uph		
1. ONSITE PERSONNEL (including subcontract Name	otors and government employees) Organization		
Bernard Bockisch	EA - Site Manager/Supervisor		
Peter Fenari	EA - Site Health and Safetly Office		
Dylan Schmeelk	Ex-Samples		
Galveston Begaye	EA-Sampler		
Arry Rose brough	EA-Sampler		
3			
2. OPERATING EQUIPMENT			
Team #1	Team #2 Spare		
YSI Professional Plus 18L100378 YSI Pro	ofessional Plus 15K101396 YSI Professional Plus 15L100541		
VVH0003 WH000	WH0002		
WH0005 WH000	/ [٧٧] 10000		
WH000			
WH001	Water Level Meter 253053 Geotech Interface Probe 0001		
3. DAILY SUMMARY (include QC samples colle	cted, deviations from planning documents, converstations with the		
the public and governmental employees, and p	roblems encountered and remedies applied)		
4. WORK PERFORMED (Indicate location, time,	and description of work performed by prime and/or subcontractors)		
0638 Leave field traile	FR - KAFB - 106.845		
0638 Leave field trailer for KAFB-106045 0694 Arrive at KAFB-106045 cluster			
1748 Leave KAFB-106045 electer for field trailer			
0754 0804 Arrive at field trailed			
The state of the	14 112116		
	DQCR Page 1 of 2'3		

Reviewed date: \_

4. WORK	PERFORMED (Continued)  DATE: 7-20-2020
0804	Leave that Could be war Could be
0814	Leave KAR field trailer for KAFB-106201 cluster Arrive at KAFB-106201 cluster
0838	LATE 1062 Lougter
0846	Leave KAFR-219
0913	100000000
0916	
0943	THE GIVEN CIVSTER
1062	Leave KAFB-106207 for KAFB-1060 231 cluster
1002	Leave KAFB-106231 cluster for KAFB-106029 cluster
1043	Arive at KAFB-106029
1047	Leave KAFB-106029 cluster for KAFB-106241
	Arrive at KAFB-106241
1(1)	Leave KAFB-106241 for field trailer
1121	Arrive at field trailer
1126	Leave field trailer for KAFB-106021
1140	Arrive at KAFB-106021
1153	Leave KAFB-106021 for KAFB-106236
1214	Arrive at KAFB-106236
234	Leave KAFB-106236 for KAFB-106206 cluster
1238	Arrive at KAFB-106706 dyster
1305	Leave KAFB-106 206 cluster for KAFB-106216 11 hon
1307	Arrive at KAFB-106216 cluster
1329	Leave KAFB-106216 cluster for KAFR-106222 cluster
1331	Trive at KAFR-106221 cluster
359	Leave KAFB-106222 eluster for KAFB-106235
701	Arrive at KAFB-106235
420	Leave KAFB-106235 for field trailer
CONTRAC	ETOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All sed, and work performed during this reporting period is in compliance with the contract plans and specifications
) da	S. Leelly
ame	Schulelk
A Engineeri	ing, Science and Technology Inc., PBC
	DQCR Page 2 of 3

December 2020

Reviewed date: 7-24-2020

4. WORK PERFORMED (Continued)	DATE: 7-20-2020
1432 Arrive at field tra	`
1DZ Arrive at field tro	uer =
·	
	/
/	
/	
/	
	,
	·
. CONTRACTOR'S VERIFICATION: I certify that to the best	of my knowledge the above report is complete and correct. All
amplified during this reporting per	iod is in compliance with the contract plans and specifications
oted bove.	
Dylan Schneelk 4	
ame Signat	ure
	<del>-</del>
A Engineering, Science and Technology Inc., PBC	
DQCR	Page 2012 \( \frac{3}{3} \)
eviewed by: Messenge	Reviewed date: 7-24-2020

ROLE: Team tot!	DATE: 69-21-7020	
WEATHER: 9/ WIND of 5 4		
1. ONSITE PERSONNEL (including subcontractors	and government employees	
Name	Organization	
Bernard BockiBL	EA - Site Manager/Supervisor	
Peter ferrant	EA - Site Health and Safetly Office	
Ealer Jeg age Sampler		
Amy Rosebrough sampler		
(A)		
2. OPERATING EQUIPMENT		
Team #1	Team #2 Spare	
YSI Professional Plus 18L100378 YSI Profess	ional Plus 15K101396 YSI Professional Plus 15L100541	
WH0001	WH0002	
	000,592,915790 MiniRAE 3000 592-915579	
14110001	WH0006  Q 15100C044633	
WHOONS	Q 15100C044633 Hach 2100Q 15100Q045025 WH0007	
	er Level Meter 253053 Geotech Interface Probe 0001	
WH0012	X	
DAILY SUMMARY (include QC samples collected, deviations from planning documents, converstations with the the public and governmental employees, and problems encountered and remedies applied)		
Well's garaged: MASB-1	106032, KAPB-106033, KAPB-106034	
M/ 913 - 106095 / 1/19	3-766094 MASB-1-6096, MASB-106067,	
16 6 6 6 6 8 / MASTS	-106069, KASB-106049, KASB-106050	
(A)B-106 051, MAIB	-106052, MAPB 106053 MASB-106054	
AS KASS-105 KASS-1	06/06 / KAFB-106/07 KASB-106041,	
W 478-136042, MA	73-106043 /A 13-106225 44 PB-106226	
KA13-106227, MA	13-106230/11 B-106826, 1951-106025	
106291 MAG	5-106057, (ALG) - 106058, MASB-106058	
100091, RAB	35092 MASS-186093 MAB-106229	
1		
4. WORK PERFORMED (Indicate location, time, and	description of work performed by prime and/or subcontractors)	
0640 left trailer of 11/	1573-106032 chister	
0647 Annel at MACB-	106032 dufer	
0715 18St KASB-186032	chife & WAB-106095 chifa	
0724 Armed at hAB-10	6095 cluster	

DQCR Page 1 of 2

Reviewed by: \_\_\_\_\_. Messengel

Reviewed date: 7-24-2020

4. WORK	PERFORMED (Continued)
0800	lest 1/183-106095 cluster to MAB-106067 cluster
0808	Arold at 4175-166067 chuses
0844	LOST MASB-106067 cluster to MASB-106049 cluster
0853	Arrel at apos 105049 chater
0930	USA 11A83-106079 chuser to 11AB-106052 cluster
0935	Arrel at 4AB-106052 cluster
1010	10 + MB-166052 chufer to MASB-106105 chufe
1613	Acrored at USB-106105 cluster
1100	1854 KAGB-106705 cluster to KASB-106041 cluster
1/02	Arrived at 4AB-106041 cluster
1/27	LOSA WASB-106041 duter to MASB-106225 chifes
1132	Arried at UNB-106225 cluster
12/6	COST MASB-106225 cluder to MASB-106230 cluder
1220	149-1067B Arried at 1158-106230 dufer
1248	COST 1/1813-106230 cluster to 1488-106025
1252	Arrived at MARB-166025
1363	LSA MARB-106625 to WARB-106055 cluster
1308	Arrived at MARB-166055 chuster
1350	187 hASB-106055 cfwfer to FAB-10609 clyster
355	Arrived at MASA-106091 cluste
14/8	Lest MASB-106091 cluster to trailer
	Armel at trasler END OF DAY
Į.	
. CONTRAC	CTOR'S VERIFICATION: I certify that to the heet of my knowledge than h

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted. noted above

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed date: 7-24-2020

ROLE: Team #1	67 77 2020
WEATHER: 88 F partly doud	y wad 3 mph
1. ONSITE PERSONNEL (including subcontractors	
Name	Organization
perhand beliesh	EA - Site Manager/Supervisor
Peter femars	EA - Site Health and Safetly Office
Galvern Begage	Sampler
Amy Rosebrough	5 amples
(04	
2. OPERATING EQUIPMENT	
Team #1	Team #2 Spare
	sional Plus 15K101396 YSI Professional Plus 15L100541
MiniRAE 3000 592-915778   MiniRAE 30	000 592 915790   MiniRAE 3000 592-915579
WH0005 WH0004 Geotech Turpigimeter 18081855 Hach 21000	WH0006
WH0009	WH0007
WH0012	Geotech Interface Probe 0001
3. DAILY SUMMARY (include QC samples collected	d, deviations from planning documents, converstations with the
the public and governmental employees, and problem	lems encountered and remedies applied)
Wells gam agen - M/K	13-166013, MAYB-106079, MAGB-106075
1100 106 020, KIN	106013, MARB-106097, WARB-106093,
1/3-106290, MAS	-106082, KAFB-106883, KAFB-106084
6 KAY 106018, KAYB	-106091, KAJB-106092, KASB-106093
(AFB 166213', RAFB	-106214, KAPB-106215, MAGB-106212
MASS-10603- MAS	B-106036, KAPB-106037, MARD 106025
MA 15-106 243, MAS	-106088/1ACA-10689,1048B-106090.
	OB
Note = KAFB-106209 was	re-ganged DTW; Previous 6 468,73, today 6 469.02
Note: KAFB-10608	33 security but stripped
4. WORK PERFORMED (Indicate location, time, and	description of work performed by prime and/or subcontractors)
0633 lest trasler to	leAFB-106073 cluster
0648 Arred at KAESS-	106073 chister B
0727 lest KAST (06073	chites to KASB-166092 duller
0730 Arred at KAP3.	-1060 42 chister 97
	97
\	DQCR Page 1 of 2° Ø3
Reviewed by: Messengel	1, C 3 Reviewed date: 7-24-2020

4. WORK F	PERFORMED (Continued)
0808	jest KASB-106 097 Moder to WASB-106 240
0810	Armed at 4AFB-186240
0821	Cest 4103-106 240 to 4155-106 082 chife
0827	Ansel at MAB-156082 chose
09//	left ARFB-106082 chuster to frailer
0920	Arrived at trailer
0115	Left Irailer to KAFB-106083
0940	Arrived at KAPB 106093
0948	Left KAFB 106083 to trailer
0958	Arrived at the trailer
1000	lest trailer to 9A/B 166083
1008	Arrel at 4A573-106083
1030	Lest MAGB-106083 to GAFB-106207 chista
1036	formed at MAB 106207 dusta
1056	lest KAGB-106093 chuster to KAFB-106092 chuster
1104	Arrived at 1085 106092 chifer
1126	1074 MAPB-106092 duster to MDB-106029 cluster
1/30	Armed at MAGB-106029 cluster
130	1884 MASB-106029 chufe L KASB-106213 chufe
1308	Arred at KASB-106213 cluster
1323	184 14 15-1662-106213 cluster to trailer
1336	Arrived at traffer
344	left marler to MASB-106213 cluster
1425	Arrived at MASB-106213 cluster B
1000	list MAGB-106213 cluder & MAGB-106025-22
5. CONTRAC	CTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All
equipment us noted	sed, and work performed during this reporting period is in compliance with the contract plans and specifications
above.	A Daise Orla
Vame	Signature Signature
A Engineer	ing, Science and Technology Inc., PBC
	DQCR Page 2 of 2
Reviewed by:	Messenger 2 of 3 Reviewed date: 7-24-2020

	DATE: 07-27-2020
4. WORK PERFORMED (Continued)	
1435 LOFA MARB-106022 to MARB-10	6243 duster
1940 forved at MAB-106243 duffer	Ø.
1520 1884 MARB-106243 cluster to 10	HARTHOE tourles
1530 Arrived of trailer END	of DAY
	,
/	
/-	
5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above equipment used, and work performed during this reporting period is in compliance with the poted.	re report is complete and correct. All
noted .	le contract plans and specifications
above.	
Name Signature	
EA Engineering, Science and Technology Inc., PBC	
DQCR Page 2 of 2	
Reviewed by: 3 of 3	Paviawod data: 7 - 74 - 20 7/0

ROLE: Team#1	7-23 2000		
WEATHER: D. H. C. A. A. A.	86°F, wind 458/@ 7-16mph		
1. ONSITE PERSONNEL (including subcontractors	s and government employees)		
Name	Organization		
Bernerd Backisch	EA - Site Manager/Supervisor		
Peter Ferrari	EA - Site Health and Safetly Office		
Dylan Schmeck Galveston Begange	EA-sampler		
Garveston Begange	EA- samples		
Any Rosebrough	EA-semples		
- J			
	4		
2. OPERATING EQUIPMENT			
Team #1  YSI Professional Plus 18L100378 YSI Profes:	Team #2 Spare		
WH0003 WH0001	sional Plus 15K101396 YSI Professional Plus 15L100541 WH0002		
WH0005 WH0004	000 592-915790 MiniRAE 3000 592-915579 WH0006		
WH0009	Q 15100C044633 Hach 2100Q 15100C045025		
WH0012	er Level Meter 253053 Geotech Interface Probe 0001		
3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, converstations with the the public and governmental employees, and problems encountered and remedies applied)			
1208 Amy rejoined to team # 2			
1208 Amy rejoined tea	m #1		
7			
4. WORK PERFORMED (Indicate location, time, and	description of work performed by prime and/or subcontractors)		
8636 leave field trailer	for KAFB-106SY cluster		
0638 Arrive at KAFB-	10654 cluster		
0704 Leave KAFB-10654	cluster for field trailer		
0708 Arrive at field	trailer		

DQCR Page 1 of 3

Reviewed by: \_\_\_\_\_. Messerger

Reviewed date: 7-24-20 20

4. WORK PERFO	ORMED (Continued)  DATE: 7-23-2020
1 1	
0723 A	eave field trailer for KAFB-10600 S5 elvter
	rrive at KAFB-10685 cluster
	ewe KAFB-106S5 cluster for KAPB-106S7 cluster
	rive at KAFB-10637 cluster
0757 Le	rave KAFB-10687 cluster for KAFB-106017
0801 A	Trive ad KAFB-106017
U809 Le	eave KAFB-10610 X 017 Por KA EB-106019
UOJU A	rive at KAFB-106019
0819 Le	WE KAFB-106019 for KAFB-106103
70021 Le	ene KAFB-106103 for KAFB-106087
> 0837 A	rive at KAFB-106103
_ 0841 A	rrive at KAFB-106087
	ave KAFB-106087 for KAFB-106072
0853 A.	rrive at KAFB-106072
0902 Les	ave KAFB-106072 for KAFB-106149
	rive at KAFB-106149
0902 Le	ave KAFB-106149 for KAFR-10651
0922 A	rive at KAFB-10631.
0931 Le	eve KAFR-106SI for KAFB-106150
	rive at KAFB-106150
0941 Les	ave KAFB-106150 for KAFB-10638 cluster
0943 AC	rive at KAFB-10658 cluster
8959 Lea	we KAFB-106S8 for KAFB-106153
	ive at KAFB-106153
1009 Leu	KAFB-106153 for KAFB-106154
274 19601	ive at KAFB-106154
	S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Name

Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 3 y

Reviewed by: . Wesseyer

Reviewed date: \_\_ 7-24-2020

4 WORK	DATE: 7-23-20-20
	PERFORMED (Continued)
1020	Leave KAFB-106154 for KAFB-106148
1021	Arrive at KAFB-106/48
1029	Leane KAFB-106148 for KAFB-106076
1037	Arrive at KAFB-106076
1046	Leave KAFB-106076 for KAFB-106155
1046	Arrive at KAFB-106155
1056	Leave KAFB-106155 for KAFB-106001
1059	Arrive at KAFB-106001
1106	Leave KAFK-106001 For KAFR-106152
1109	Arrive at KAFR-106152
1118	Leave KAFB-106152 for KAFB-106156
1138	Arrive at KAFB-106156
1150	Leave KAFB-106156 for field trailer
1153	Arrive at field trailer
1208	Leave field trailer for KAFB-10652 cluster
1211	Arrive at KAFB-10632 cluster
1228	Leave KAFB-10652 cluster to KAFB-10689 eluster
129	Arrive at KAFB-10639 cluster
1259	Leave KAFB-10689 cluster for KAFB-106062
1303	Arrive at KAFB-10662
HIBU	Leave KAFB-106062 for KAFB-106080 cluster
H 1316	Arrive at KAPB-106080 cluster
1332	Leave KAFB-106080 cluster for KAFB-10653 cluster
	Arrive at KAFB-106S3 cluster
1357	Leave KAFB-10683 cluster for field trailer
1901	Arrive at KAEBHO & Pield tailor
5. CONTRA	CTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All sed, and work performed during this reporting period is in compliance with the contract plans and specifications
iloteu	and specifications
above.	

EA Engineering, Science and Technology Inc., PBC

DQCR Page 3 of 3

Reviewed date: 7-29-20

December 2020

ROLE: Gauging - Team#1	210,12,25
WEATHER: Cloudy, rainey interm	ittentus
1. ONSITE PERSONNEL (including subcontractors	
Name	Organization
Bernie Bockisch	EA - Site Manager/Supervisor
lete Ferran	EA - Site Health and Safetly Office
Ginny Bracht EA	
Amy Rosebrough	EA
	***
	AR
2. OPERATING EQUIPMENT	
WH0003	Team #2         Spare           sional Plus 15K101396         YSI Professional Plus 15L100541           WH0002
WH0005 WH0004	000 592-915790 MiniRAE 3000 592-915579 WH0006
WH0009	Q 15100C044633 Hach 2100Q 15100C045025 WH0007
WH0012	er Level Meter 253053 Geotech Interface Probe 0001
the public and governmental employees, and prob	d, deviations from planning documents, converstations with the
Leave trailer +	
KAFB - 106085	KAFB-106086, KAFB-106070,
KAFB-106071	KAFB-106023, KAFB-106104,
KAFB - 106015	KAFB-186046; KAFB-106047
KHFB-106016	KAFB-3411, RAFB-106247
1140-10600	>> KAFB-1060>7, KAFB-106078
KAFB-1060	24
-01-	
	description of work performed by prime and/or subcontractors)
	WAFB - 10 & 085 cluster
0705 Arrive at KAFB-106	
	085 cluster for KAFB-106070
0727 Arrive at KAFB	-106 070 cluster

DQCR Page 1 of 2

Reviewed by:

Reviewed date: 7-29-2020

4. WORK PERFORMED (Continued)	
6749 Leave KAFB-106070 cluster for KAFB-106023 C)	1.000
10750 Arrive at RAFB-106023 c/45ter	yster
9812 reave KAFB-106023 cluster for KAFOB-106	1015
1817 Arrive at KAPB-1060K	
0830 leave KAFB-106015 for KAFB-106046 cluster	
0839 Arrive at KAFB-106046 cluster	
0845 bave KAFB-106046 cluster for trailer	
0847 Arrive at trailer	
1850 leave trailed for KAPB-106046 cluster	
0853 Arrive at KAFB-106046 cluster	
9914 leave 12AFB-106046 cluster for KAFB-	106016
1919 Arrive at KAPB-1010	
0929 Leave NAFIB - 106016 FOR TEAFIB - 100 KAFB - 3411	
0930 Arrive at KAFB 3411	
1939 Leave RAFB-3411 FEN KAFB-106247	
1944 Arrive at KAFB - 106247	
1955 Leave KAFB-(06247 For KAFB-106007	
1957 Arrive at RAFB-106007	
1006 Leave KAFB-106007 For KAFB-106077 Clust	
1008 Arrive at KAPB-106077 cluster	
1030 lave KAFB - 10677 cluster for KAFB-106024	
1032 Arrive at KAFB - 106024	
1960 leave KAFB-106024 for trailer	
1052 Arrive at trailer.	
CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and segrent All	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted

above.

Amy Rosebrough

Signature

EA Engineering, Science and Technology Inc., PBC

Reviewed by:

DQCR Page 2 of 2

Reviewed date: \_

7-29-2020

ROLE: Gauzing - Tean # Z	DATE: 7/23/2020
1. ONSITE PERSONNEL (including subcontractors	Winds 7-15mph
Name	Organization
Bernie Bockisch	EA - Site Manager/Supervisor
Pete Ferran	EA - Site Health and Safetly Office
Ginny Bracht	EA
Amy Rosebrough	ĒA
AR	
2. OPERATING EQUIPMENT	
Team #1	Team #2 Spare
WH0003 WH0001	sional Plus 15K101396 YSI Professional Plus 15L100541 WH0002
MiniRAE 3000 592-915778 MiniRAE 30 WH0005 WH0004	000 592-915790 MiniRAE 3000 592-915579 WH0006
Geotech Turbidimeter 18081855 Hach 21000	Q 15100C044633
Solinst Water Level Meter 253056 Solinst Wat	er Level Meter 253053 Geotoch Interface Probe 0001
WH0012	X
the public and governmental employees, and prob	d, deviations from planning documents, converstations with the
106038 106939	2/10/0244-445, 106066, 106065,
10/ 60 2	106 103 106 102
100 100 3 , 100 00 2	106040, 10621(, 10610), 106102, -, 106012R, 106011, 106245-460
AR	
4. WORK PERFORMED (Indicate location, time, and	description of work performed by prime and/or subcontractors)
	duster; garge KAFB-106004, 106 099,
106100, 106244-4	45
0835 Leave KAFB-10600	4 cluster for KAFB-10606 cluster -106066 cluster
0840 Arrive at KAFB	-106066 cluster

DQCR Page 1 of 2

Reviewed by: \_\_\_\_\_. Messenger

Reviewed date: 7-24-2020

4. WORK PERFORMED (Continued)	
1907 Leave RAFB-106066 cluster for KAFB-106039 (luster)	
0948 Leave 6AFB-106039 cluster for 6AFB-106211	
0949 Amive at KAFB-106211	
1008 Leave KAFB 106211 for cluster KAFB-106101	
1016 Arrive at KAFB -106101 Cluster	
1048 leave KAFB - 106101 (14ster for KAFB-106012	
1051 Arrive at KAFB-106002	
1104 Leave KAFB-106002 FOR KAFB-106/22 106 013	2R
1105 Arrive at RACB 1060MR	
1116 Dave RAFB-106012R for KAFB-106011	
1118 Arrive at KAPB - 106011	
1135 Leave KAFB - 106011 for KAFB-106245-46	0
1136 Arrive at RAFB - 106245-460	
1151 Leave KAFB - 106245 - 460 for trailer	
153 Arrive at trailer	
. /	
AR	
5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All	
equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications above.	
Amus Roseband	
Name Signature Signature	
EA Engineering, Science and Technology Inc., PBC	

DQCR Page 2 of 2

Reviewed date: 7-24-2026

ROLE: _	Ram IIZ	DATE: 07-24-2020
WEATHER	8: 85°F partly clos	adm MSM Bunal
1. ONSITE	PERSONNEL (including subcontractors	and government employees)
Name		Organization
Bei	mard Backisch	EA - Site Manager/Supervisor
pe	ter ferrari	EA - Site Health and Safetly Office
6	a hefor Begare	Sampler
***************************************		
2.00504	TINO FOURDAMENT	
Z. OPERA	TING EQUIPMENT Team #1	7 10
WH0003	sional Plus 18L100378 YSI Profess	Team #2 Spare sional Ptus 15K101396 YSI Professional Plus 15L100541 WH0002
WH0005	WHOOO4	00 592-915790 MiniRAE 3000 592-915579 WH0006
	L WHOONS	Q 15100C044633 Hach 2100Q 15100C045025
	WH0012	Geotech Interface Probe 0001
3. DAILY S the public	UMMARY (include QC samples collected and governmental employees, and probl	, deviations from planning documents, converstations with the ems encountered and remedies applied)
		106003, MAPB-106101, WARB-106102
		10612R, KARB-106079, MAGB-106080
	1 4	-106014, KARB-10653, KARB-106011
do		106004, WASB-106017, MASB-106211
11/2	KAPB-106019 KAPB-10	6038, MASB-106039, MASB-106040
M		
4. WORK P	ERFORMED (Indicate location, time, and	description of work performed by prime and/or subcontractors)
1310	lest fourter to	MASB-105003 cluster
1315	Arrivel at 9A83	106003 dwfer
1324	lest 40 for - 106003	duter to MAB-106002
1325	Amored at ASSE	3-106002
	\ r	OQCR Page 1 of 2
Reviewed by		Povious dels 7-29-202

	DATE: 07-24-2020
	PERFORMED (Continued)
1329	lest MASP-106002 to MASP-10612R
1330	Arrived at XARB-10612R
1333	[est 1885-10612R to MAGB-106014 cluster
1335	
1353	lest 4APB-106014 dwfer to 1/ASB-106011
1354	Amred at UAFB-106011
1357	1884 MAROS-106011 to trader
1400	Armed at frater
1403	Jest frailer to KASB-106015
1410	Arrived at KAB-106015
1415	1est KAPB- 106015 to KAPB-106004
1420	Arrived at UASB 106004
1424	lest KASB-106004 to KASB-106017 cluster
1429	Arrored at WASB-106017 duster
1445	lest 4ASB-106011 cluster to 4AGB-106019
1447	Arrayed at GASB-106019
1451	Cest MASB-106019 to MASB-106038 cluster
1453	Arnel at MAPB-106038 cluster
1501	1St 4ACB-106038 cluster to 4ACB-106013
1507	Arrived at USB-1060)3
15/3	1eft KAB-1060/3 to KAPB-106077
1535	Arroyal at HASB-106077
1541	left KASB-106077 to trapler
1547	Arrived at trailer END OF DAY
	6B
E CONTRA	

5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

Calvern Regare

Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by: \_\_\_\_

Reviewed date: 7-29-2020

ROLE: ream 112	***************************************			DATE: 07-27-2020	
WEATHER: 840F parti	la cloud	day wind Sup	4 1	veit	-
1. ONSITE PERSONNEL (including sul	ocontractors	and government empl	oyees	3)	
Name		Organization			+
Bernard Bocki	504	EA - Site Manager/Sup	erviso	r	
Peter feman		EA - Site Health and Sa	fetly (	Office	
Galvester Beg	are	Samples	2.	Tean 2	
	$-\omega$	8			
	-611				
2. OPERATING EQUIPMENT					-
Team #1		Team #2	NAME AND ADDRESS OF THE PARTY O	Spare	$\dashv$
YSI Professional Plus 18L100378 WH0003	YSI Profess	sional Plus 15K101396		YSI Professional Plus 15L100541	+
MiniRAE 3000 592-915778 WH0005	MiniRAE 30	000 592-915790	X	WH0002 MiniRAE 3000 592-915579	$\dashv$
Geotech Turbid meter 18081855		Q 15100C044633	Ħ	WH0006 Hach 2100Q 15100Q 045025	+
Solinet Water Level Meter 253056	WH0009 Solinst Wate	er Level Meter 253053		Geotech Interface Probe 0001	-
3. DAILY SUMMARY (include QC sample	les collected	l, deviations from plann	ing d	ocuments, converstations with the	+
the public and governmental employee					
(Nell> 0077-70	1-1000	106 55, MA	13-1	106085, M/RB-10608C	2
KADO 1000	KATO	1060-11, KAFO	3-10	06072, MASB-106023,	-
1/N 05-100 103, 10	MACA	106/09 KAS	3-1	106243, KAFB-106088	3
VACE 100009	LACE	-106090 , K/H	15-1	106010, MAPB-106028,	
				B-106066, MAPB-10624	4
				6212 NAFB-106035,	-
1413-106036				-106220, MASB-106221	,
11/1/15-100 4/3/	1/1/05-1	06214, WAR	3-1	06215, KAPB-106022	
		1			
		100			7
4. WORK PERFORMED (Indicate location	n, time, and	description of work pe	rform	and by prime and/or subcontractors	4
0700 left to KAFB.	-1065		gles		1
0714 Armed at	KATB-	106.55			1
0735 TOFF MARB	-106.5	1	il	ev	1
0750 Agrel at &	AOn	for track	er		
,	03	10 - 17			_
		QCR Page 1 of 2	7		
Reviewed by:	_	1.52	,	Reviewed date: 7-29-20	12
		TOT 3			-

4. WORK I	PERFORMED (Continued)
0752	lest trailer to GASB-106085 chister
0804	Arnel gt KAPB-106085 chuster
0818	lest KAPB-106085 chister to 488B-106070 chister
0820	Armed at KASB-106070 chister
0850	lest MAPB-106070 cluster to MASB-106023 cluster
0855	Arrived at MASB-1060 23 cluster
0920	1884 KASB-106023 cluster to MASB-106089 cluste
0923	Arried at MASB-166089 cluster
0955	108+ KASB-106089 chister to MASB-136010
1000	Arrived at 9APB-106010
1010	OFF MASB-106010 to MASB-106065 chister
1013	Arrived at KASB-106065 chuter
1032	1884 KAPB-106065 chufer to KAPB-106244
1038	Armed at KAFB-106244
1055	LOFT KAPB-106244 to KAFB-106099 chose
1056	Arrived at KASB-106099 cluster
1112	10ft KAPB-106099 cluster to KAPB-106212 cluster
1120	Armed at KAPB-106212 cluster
1155	Lest WAFB-106212 chofer to WAFFS frailer
1203	Arroyed at trailer
1220	lest trailer to KASB-106219 cluster
1230	Arrored at KARD-106219 cluster
1256	let KAPB-106219 cluster to KAB-106213 cluster
300	Amoved at RAPB-106213 cluster
322	1884 KAPB-106213 dwfer to KAFB-106022
1324	Arrived at GAPB-106022
a daulannante cu	CTOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All sed, and work performed during this reporting period is in compliance with the contract plans and specifications
noted above.	2. And the services plane and specifications
Galy Name	Spin Begginge Storature
EA Engineer	ring, Science and Technology Inc., PBC

2 of 3 Reviewed date: 7-29-2020

4. WORK PERFORMED (Continued)	DATE: 07-27-2320
	1.
1340 Armed at trailer END	aller
121 Armed of trailer FND	OF DAY
	777
	/
/ .	
V	
5. CONTRACTOR'S VERIFICATION: I certify that to the best of my knowledge the abore	ave report is complete and a such All
equipment used, and work performed during this reporting period is in compliance with the control of the contro	the contract plans and specifications
above.	
Calvern Begage 1/13	
Name Signature	
EA Engineering, Science and Technology Inc., PBC	
DQCR Page 2 of 2	- 10 2-1
Reviewed by: 3 of 3	Reviewed date: 7-29-202

ROLE: Team #2	DATE: 67-28-7020
WEATHER: 86°F partly cloudy	5 mph wind NE
1. ONSITE PERSONNEL (including subcontractors	and government employees)
Name	Organization
Bernard Bochisch	EA - Site Manager/Supervisor
Peser ferrari	EA - Site Health and Safetly Office
Eglicher Begange	Sampler
	2
15	5
2. OPERATING EQUIPMENT	
Team #1	Team #2 Spare
WH0003 WH0001	sional Plus 15K101396 YSI Professional Plus 15L100541 WH0002
	000 592-915790 MiniRAE 3000 592-915579
WH0005 WH0004 Geotech Turpidipader 18081855 Hach 21000	WH0006
L IMHOODS	WH0007
WH0012	
3. DAILY SUMMARY (include QC samples collected the public and governmental employees, and problems)	l, deviations from planning documents, converstations with the
	6074, KAGB-106216, KAGB-106217,
	3-106091, KAPB-106092, KASB-106093
	106055, WASB-106057, WASB-106058,
KA8B-106025, KAG	
KAFB-106041, KAFB-	
A WAFB-106225, WASB	-106226, MASB-106227, KASB-106026
OF KACB-106230,	
	V
1	7/15
4. WORK PERFORMED (Indicate location, time, and	description of work performed by prime and/or subcontractors)
0715 lest+04AFB-106074	from trailer
0726 Arrived at MASS-10	6074
0732 left KASB-106074	to 4A8B-106216 chifer
0740 Arrorel of MAGB	106216 cluster
	DQCR Page 1 of 2
Reviewed by:	Reviewed date:

4. WORK P	PERFORMED (Continued)
08 25	
0831	10FA KAFB-106216 chuster to KAFB-106091 chuster
1 -	Armel of KASB-106091 cluster
09/6	105+ KAFB-106091 cluster to MAFB-10605 clust
3920	Broved at MAPB-106055 cluster
0955	lest MARB-106055 duster to MARB-106025
1000	Amred at 4A9B-106025
1005	65+ 4AFB-106025 to MAFB-106105 cluster
1007	Arrived at KASB-106105 cluster
1047	lest KAPB-106105 cluster to KAPB-106041 cluster
1050	Armel at MASB-156041 cluster
1119	18St MASB-106041 cluster to MABB-106223
1122	Arrived at KAPB-106223
1141	1 oft MAM-106223 to MAPB-106225 c/wfer
144	Arrived at MASB-106225 cluster
222	108+ RASB-106225 cluster to WAFB-106230
1225	Arried at 4183-16230
1230	1887 MAPB-106230 to WAFD-106026
1231	Arrived at RARB 106026
1236	lest WASB - 106026 to trailer
1253	Arrived at trailer FND of DAY
	A
CONTRAC	TOR'S VERIFICATION: I certify that to the best of my knowledge the above report is complete and correct. All

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Reviewed by:

Reviewed date: 7 - 29 - 2620

					Well Gauging	B BFF ST-106/SS-11	11	59		2020 Quarter : 3
Well ID	Previous 2020 Q2 (i		Date	PID (ppm)	Depth to NAPL	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Poin
	Depth to NAPL	DTW			(IT WIKP)	(IT WRP)		(serial number)		
KAFB-106001	_	466.72	7-23-2020	0.0	-	467.44	GB	0001		TWV
KAFB-106002		464.12	7-23-2020	0.0	_	464.40	GBR	WH0012		TWV
KAFB-106003	- '	462.13	7-23-2020	0.0		462.10	AR	WH0012	confirmed by GBR	TWV
KAFB-106005		468.63	7-23-2020	0.1	_	469.44	05	0001		TOPC
KAFB-106006	<del>-</del>	473.59	7-23-2010	0.0		474.22	DS	000 (		TWV
KAFB-106007		471.79	7-24-2020	0.0		472.26	05	WH0012		TOPC
KAFB-106009	_	470.30	7-23-2070	0.0		471.13	0.5	000 1		TWV
KAFB-106010	-	465.37	7-23-2000	0.0		466.00	GB	0001		TWV
KAFB-106011	- /	475.30	7-23-2020	0.0		475.87	GBr	UH0012		TOPC
KAFB-106012R		467.11	7-23-2020	0.0		467.61	AR	WH0012		TOPC
KAFB-106014	-	472.25	7-23-201	0.0	/	472.84	05	000 1		TOPC
KAFB-106015	, <del>,</del>	464.51	7-24-2020	0.0		466.50	DS	WH0012		TOPC
KAFB-106016	_	464.44	7-24-2020	0.0		464.69	05	WH0012		TOPC
KAFB-106024		465.78	7-24-2020	0.0		466,52	AR	WHOOD		TWV
KAFB-106027		470.83	7-20-2020	0.0		470.96	DS	WH0012		TOPC
KAFB-106044		470.97	7-20-2020	0.0		471.11	DS	WH0012		TOPC
KAFB-106045		470.70	7-20-2020	0.0		470.82	DS.	WH0012		TOPC
KAFB-106046		475.19	7-24-2020	0.0		475.63	AR	wH0012	EA Barricade	TWV
KAFB-106047	, <u>'</u>	475.26	7-24-2020	DoD		475.69	25	W40012	EA Barricade	TWV
KAFB-106048		474.99	. 21 0000	0.0		475.34	STA	WH0012	EA Barricade	TWV
KAFB-106060	_	467.53	7-23-7.020	0,0		468.06	AR	1003		TWV

Kirtland AFB BFF Quarterly Report - July-September 2020 SWMUs ST-106/SS-111

*					<b>Well Gauging</b>	Form Team 1	<b>1</b>	59		2020
			,		Project: Kirtland AFI	B BFF ST-106/SS-11	11			Quarter : 3
Well ID	Previous 2020 Q2 (f		Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	Depth to NAPL	DTW			(It MIKE)	(It WINE)		(Serial Humber)		
KAFB-106061	_ , -	467.48	7-23-2020	0.0		467,93	AR	wHood 2		TWV
KAFB-106062		473.46	7-23-2020	0.0		473.91	GB	WH0012	APTIM	TOPC
KAFB-106077	, . <u></u>	468.35	7-24-2020	0.0	3	468.81	AR	WH0012	Verified as 468.81-DS	TWV
KAFB-106078	******* <u>**</u>	467.49	7-24-2020	0.0		467.95	DS	WH0012		TWV
KAFB-106080	_	470.45	7-23-2020	0.0		471.04	GB	0000		TOPC
KAFB-106081		471.65	7-23-2020	0.0	-	472.23	AR	W40012		TOPC
KAFB-106101	- '	462.27	7-23-2020	0.0	-	462.35	AR	WH0012		TOPC
KAFB-106102	- '	462.41	7-23-2020	0.0	_	462.48	GBr	WH0012		TOPC
KAFB-106201	_	479.55	7-20-2020	0.0		484,36	GB	WH0012	Do early in the morning and	TOPC
KAFB-106202		480.58	7-20-2020	0.0		485.27	AR		ensure	TOPC
KAFB-106203		481.01	7-20-2020	0.0		485.61	DS	· · · · ·	production well is pumping	TOPC
KAFB-3411	-	465.54	7-24-2030	0.0	-	465.92	DS	W40012		TOPC
KAFB-106245-460	<sup>1</sup> / <sub>2</sub> _ '	483.36	7-23-2020	0.0	~ ~	483.90	AR	WH0012		TOPC
KAFB-106247	_	474.03	7-24-2020	0.0		474.37	AR	WH0012	double checked	TOPC
KAFB-106008	_	473.64	7-23-2020	0.0		474.31	05	253056		TWV
KAFB-106028	-	471.09	7-23-2020	0,0		471.56	GB	253056		TOPC
KAFB-106059	469.91	470.06	7-23-2020	1.2	470.40	470.41	GB	253056		TOPC
KAFB-106063	_	NA	Equipmen	t in u	ell -	377			D5 APTIM	TOPC
KAFB-106064	_	NA	· · · · · · · · · · · · · · · · · · ·	0.0	K Constant				DS APTIM	TOPC
KAFB-106076	467.25	467.26	7-23-2020	,-		467.68	GB	253056		TWV
KAFB-106079	<u> </u>	471.91	7-23-2000	0.5	- 4	472.33	DS	253056		TOPC

12+2

December 2020

6	1				Well Gauging	Form Team 1		59		2020
	. ,	Project: Kirtland AFB BFF ST-106/SS-111								Quarter : 3
Well ID	Previous 2020 Q2 (1		Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	Depth to NAPL	DTW			(10 111111)	CVV	(7,300)	100	hop as who had	
KAFB-106148-484		466.3	7-23-2000	0.0	_	466.68	GB	253056	Was phospits	TWV
KAFB-106149-484		468.22	7-23-2020	0.0	-	468.70	GB	253056		TWV
KAFB-106150-484	466.50	466.88	2	0.0	466,85	467.12	GB	253056	1 1000 50.	TWV
KAFB 106151-484	_	468.01	7-23-2020	0.0		468.47	GB	253056	(-34)	TWV
KAFB-106152-484		469.79	7-23-2020	0.0		470.32	GB	253056	KSmrd &	TWV
KAFB-106153-484	_	471.22	2 -2 200	0-0		471.72	A5	753056	2.0935	TWV
KAFB-106154-484	- ,	469.43	707000	0,0	469.77	469.79	GB	253056	(2.3.29)	TWV
KAFB-106155-484		469.88	7-23-2000	0.0	-	470,33	GB	253056		TWV
KAFB-106156-484	100	463.31	7-23-2020	0.0	-	463.67	GB	253056		TWV
KAFB-106S1-447		467.31	F 02	0.0		467-76	D5	253056		TWV
KAFB-106S2-451		474.51	7-23-2020	0.0		474.96	GB	253056		TOPC
KAFB-106S3-449	<u> </u>	473.59	7-23-2020	0.0		474.00	@3	253056		TOPC
KAFB-106S4-446	_	468.51	7-23-2620	0.0	Commence	469.19	AR	0001		TOPC
KAFB-106S5-446	-	465.38	7-23-2020	0.0		466.13	GB	253056		TWV
KAFB-106S7-451	_	470.87	7-23-2020	0.0		971.60	GB	253056		TWV
KAFB-106S8-451	_	473.61	202 2000	0.0	1 -	474.08	GB	253056		TOPC
KAFB-106S9-447		468.08	7-23-2020	0.0		468.68	GB	253056		TOPC

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A = NAPL present

					Well Gauging	Form Team 2		56		2020
				P	roject: Kirtland AFB	BFF ST-106/SS-111	verit	ied 7-24-200	io-DS	Quarter : 3
Well ID	Previou 2018 Q1		Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Poin
	Depth to NAPL	DTW		1	(it with )	(It mixi )		(Serial Hamber)		
KAFB-106004	_	467.53	7-24-2020	0.0	- 11	468.11/	AR	NH00 (2	EA Barricade	TOPC
KAFB-106013		472.65	7-22-2020	0-0		437.76	AR	WHOOR	Call VA Police	TOPC
KAFB-106019	_	477.06	7-23-2020	0.0	-	477.74	DS	0001		TOPC
KAFB-106020	-	462.88	7-22-2020	0.0		463.50	ga	0001	Call VA Police	TWV
KAFB-106021		436.31	7-20-2020	0.0	-	436.79	GB	0001	Barricades by SWSS	TWV
KAFB-106022		440.15	7-22-2020	0.0		441.33	AR	wHook		TWV
KAFB-106023	_	450.85	7-24-2020	0.0	1 1-11	451-96	ps	WH0012		TWV
KAFB-106029	-	432.42	7-20-2020	0.0	433.05 AR	433.05	DS	WH8012	Barricades by SWSS	TWV
KAFB-106030	-	432.54	7-20-2020	0.0		433.12	05	WH 0012	Barricades by SWSS	TWV
KAFB-106031	-	432.56	7-20-2020	0.0		433.24	AR	WH0012	Barricades by SWSS	TWV
KAFB-106035		444.20	7-22-2020	0,0		445.20	AR	WH0012	Church - make sure you	TWV
KAFB-106036	-	444.68	7-27-2020	6.0		445.74	68	0001	see if anyone is present at the church to inform them	TWV
KAFB-106037	-	445.31	7-27-2020	0.0	-	446.38	GB	WHOOLD	that you are there	TWV
KAFB-106038	-	473.93	7-23-2020	0.0		474.67	GBr	WH0012		TOPC
KAFB-106039	1	473.74	7-23-2020	0.0		474.49	AZ	wtoo 12		TOPC
KAFB-106040	-	472.64	7-23-2020	0.0	-	473-38	DR	(DU6012		TOPC
KAFB-106065	94	471.03	7-20-2020	0.0	_	471.50	96	wttoolZ	USS Bullhead	TWV
KAFB-106066	-	471.23	7-23-200	5 0.0	-	471.86	GB	W#0012	USS Bullhead	TWV
KAFB-106067		470.01	7-21-2020	6.0		470.36	AX	CNO 12		TWV
KAFB-106068	_	469.79	7-21-2020	0,0		470.30	AR	WH0012		TWV

					Well Gauging	Form Team 2	Mark the second	56		2020
			87.9	Р	roject: Kirtland AFB	BFF ST-106/SS-111				Quarter : 3
Well ID	Previou 2018 Q1		Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Poir
	Depth to NAPL	DTW			(ILWINE)	(It WIKE)		(serial fidiliber)		
KAFB-106069		469.61	07-21-2020	0-6		469.98	AOR	mools		TWV
KAFB-106070		440.55	07-29-2020	0.0		441.65	05	WH0012		TWV
KAFB-106071	_ (	442.82	7-24-2020	0.0	_	443.95	05	WH0012		TWV
KAFB-106072	_	441.04	7-23-2020	0.0	_	442.21	DS	0001	confirmed	TWV
KAFB-106073		461.76	07-22-2020	0.0		462.32	AR	WH00/2	Call VA Police	TWV
KAFB-106074	_	462.50	07-22-2020	0.0	-	463.08	AR	WH0012	Call VA Police	TWV
KAFB-106075		462.47	07-22-2020	0.0	_	463.04	AR	wtool2	Call VA Police	TWV
KAFB-106082		457.69	07-22-2020	0,0		458.23	APP	whole	Call VA Police	TWV
KAFB-106083		457.34	07-22-2020	0.0	_	457.83	AR	wHOIC	Call VA Police	TWV
KAFB-106084	* - /:	460:14	07-22-2020	0,0	-	460.75	ARGE	WHOOLZ	Call VA Police	TWV
KAFB-106085		439.30	07-24-2020	0.0		439.97	AR	WHOOLZ		TWV
KAFB-106086	_	439.66	7-24-2020	0.0	•	440.37	AR	WH0012		TWV
KAFB-106087		438.81	7-23-2020	0.0		439.65	GB	0001		TWV
KAFB-106088	12	446.65	7-22-2020	0.0	_	447.49	AR	000		TWV
KAFB-106089		446.33	7-22-2020	0.0		447.08	GB	WH0012		TWV
KAFB-106090	-	445.17	7-22-2020	0,0		46.06	GB	0001		TWV
KAFB-106094	-	467.24	7-21-2020	6.6		467.68	AK	BH0001	£ 200	TWV
KAFB-106095		466.79	7-21-2020	0.0		467.14	AR	WH0012		TWV
KAFB-106096	_	467.44	7-21-2026	0.0		467.89	AR	1000		TWV

	1		No. of the Contract of the Con	**	Well Gauging	Form Team 2		56		2020
				Pr	oject: Kirtland AFB I	BFF ST-106/SS-111				Quarter : 3
Well ID	Previou 2018 Q1 Depth to	(ft MRP)	Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	NAPL	DTW				, , ,				
KAFB-106097	_	469.59	7-22-2020	0.0	-	470-10	GB	WH00 12	Call VA Police	TWV
KAFB-106098		469.67	7-22-2020	6.0		470.20	AR	WHO0)2	Call VA Police	TWV
KAFB-106099	_	464.50	7-23-2020	0.0		465.05	GBr	w#0012	EA Barricade	TWV
KAFB-106100		464.52	7-23-200	0.0		465.07	AP	w/t0012	EA Barricade	TWV
KAFB-106103		451.10	7-23-2020	0.0		452,26	GB	0001		TWV
KAFB-106104	_	450.34	7-24-2020	0-0		451.64	05	WH0012		TWV
KAFB-106212	_	444.86	7-22-2020	9-0		445.95	GB			TWV
KAFB-106213	, a -	447.64	7-22-2020	0,0		448.62	AR		Church - make sure you see if anyone is	TWV
KAFB-106214	_	447.76	7-22-2020	0.0		448.86	AR		present at the church to inform them that	TWV
KAFB-106215		447.99	7-22-2020	0-0		449.08	GOB	WHOOIZ	you are there	TWV
KAFB-106231		448.66	7-20-2020	0.0		450.38	DS	WH0012	Barricades by SWSS	TWV
KAFB-106232		448.22	7-20-2020	0.0		450.00	AR	WH0012	Barricades by SWSS	TWV
KAFB-106240-449	, , , , , , , , <u> </u>	469.49	7-22-2020	0.0		470.09	GB	WH0012		TWV
KAFB-106242-418	, _ v	438.2	7-20-2020	0.0		438.64	B	w#0012	Barricades by SWSS	TWV
KAFB-106243-425	_	442.84	7-22-2020	0.0		443.61	GB	wH6012		TWV
KAFB-106244-445	_	465.3	7-23-2020	0-0		465.85	AZ	W400 12		TWV
KAFB-106211		Dry	4 (23 - 207	0.000	-	465.28		WH0012		TWV

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2020	Anna Tan X Maria	52		Form Team 3	Well Gauging		380	N		- 7.3
Quarter :				BFF ST-106/SS-111	oject: Kirtland AFB I	Pi				
Referenc Point	Contact	WL Meter Used (serial number)	Initials	DTW (ft MRP)	Depth to NAPL (ft MRP)	PID (ppm)	Date	(ft MRP)	Previou 2018 Q1 Depth to	Well ID
			1	W.C 171		0.0	<b>-</b> 12 2 2 1 1	DTW	NAPL	
TOPC		0001	GB	465.71		0,0	7-23-2000	464.96	_	KAFB-106017
TOPC		0001	AR	459.06		0.0	7-22-2020	458.57		KAFB-106018
TWV		WHOOL	AR	439-73		0,0	7-4-2020	438.86	_	KAFB-106025
TWV		WHOOR.	AR	445.23	_	0.0	7-21-2020	444.00		KAFB-106026
TWV	Gibson Med. Ctr.	wH 0012	AR	439.49		0.0	# 721-280	439.06		KAFB-106032
TWV	Gibson Med. Ctr.	wHoolz	AM	439.62		10:0	07-21-2020	439.22		KAFB-106033
TWV	Gibson Med. Ctr.	WHOOLZ	AR	440.49		0.0	07-21-2020	440.06	_	KAFB-106034
TWV		WHO0)2	AR	446.93		6.0	07-21-2020	445.85	-	KAFB-106041
TWV		WHO012	AR	446.68	16	0.0	7-21-2020	445.60	-	KAFB-106042
TWV		MHOOIZ	GB	446.95		0.0	7-21-2020	445.85		KAFB-106043
TWV		WHOOZ	AR	438-11		0.6	7-21-7020	437.36		KAFB-106049
TWV		W/0012	AB	437.50		0.0	7-21-2020	436.75	, _ ·	KAFB-106050
TWV		wHav/Z	en	437.84		0.0	7-21-2020	437.06	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KAFB-106051
TWV		000 (	AR	441.34	_	0.0	7-21-2020	440.41	5	KAFB-106052
TWV		WHOUZ	AR	441.20		0-0	7-4-2020	440.33	-	KAFB-106053
TWV		WHOO12	AR	440.81	1 1 1 N	0.0	7-21-2020	439.91	-	KAFB-106054
TWV		W/4001Z	AR	447,53	_	0.0	7-21-2020	446.87	-	KAFB-106055
TWV		w400)Z	AR	448-31	<del>-</del>	0.0	7-21-2020	447.22	-	KAFB-106057
TWV		WH0012		448-88		0,0	7-21-2020	447.79	_	KAFB-106058
TWV		wtoo12	63	437.56		0.6	7-22-2620	436.11	-	KAFB-106091
TWV		WH0012		437.57	-	0,0	7-22-2020	436.25	1/2/2	KAFB-106092

*	1			6 Carl Carl	Well Gauging	Form Team 3		52	469.07	2020
				Р	roject: Kirtland AFB I	BFF ST-106/SS-111				Quarter : 3
Well ID	2018 Q1	us DTW (ft MRP)	Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	Depth to NAPL	DTW			(14.111.11)	(14 11114 )		(557747774777		
KAFB-106093		436.33	7-22-2020	0-0	_	437.49	AR	wH0012		TWV
KAFB-106105		443.65	7-21-2020	0.0		444.72	AR	For 0001		TWV
KAFB-106106	·   · · · · · · · · · · · · · · · · · ·	443.52	7-21-2020	0.0		444.50	AR	wtoolz		TWV
KAFB-106107		443.76	9-21-2020	6-0		444-83	GB	0001		TWV
KAFB-106204		454.10	7-20-2020	0,0	$\sim$	456.04	DSAR	WH0012		TWV
KAFB-106205	_ '	454.47	7-20-2020	0.0		456.51	05	10H0012	•	TWV
KAFB-106206	<u>-</u>	454.61	7-20-200	0.0		456.73	<b>D</b> S	wH 0012		TWV
KAFB-106207	_	464.85	7-20-2020	0.0		469.73	GB DS	WH 0012		TWV
KAFB-106208		464.56	7-20-2020	0.0		469.02	AR	WH0012		TWV
KAFB-106209		463.90	7-20-2020	0.0		468,73	03	WH0012		TWV
KAFB-106216	_ ~,	456.00	7-20-2020	0.0		457.20	AR	WHE012		TWV
KAFB-106217	_	455.90	7-20-2020	0-0		457-12	05	WH0012		TWV
KAFB-106218		456.05	7-20-2020	0.0		457.30	05	WHO012		TWV
KAFB-106219	1	462.07	7-20-2020	0.0		464.20	DS	w+ 0012		TWV
KAFB-106220		462.00	7-20-220	6.0		464.12	AR	WH0012		TWV
KAFB-106221		461.80	7-20-1020	0.0		463,88	AR	WH0012		TWV
KAFB-106222	-	454.87	7-20-2020	0-0		456.56	AR	WH0012		TWV
KAFB-106223		455.46	7-20-2020	0,0		457,21	05	WH0012		TWV
KAFB-106224		456.61	7.20 - 2020	0,0		458.34	05	WH0012	- A - A - A - A - A - A - A - A - A - A	TWV
KAFB-106225		448.24	7-21-2020 20-AR	0,0	-	449.63	AR	WHOO12		TWV
KAFB-106226		448.85	2-21-2020	8.8		450.27	AR	WH0012		TWV

***					Well Gauging	Form Team 3		52		2020
				Р	roject: Kirtland AFB	BFF ST-106/SS-111	· · · · · · · · · · · · · · · · · · ·			Quarter : 3
Well ID	2018 Q1	us DTW (ft MRP)	Date	PID (ppm)	Depth to NAPL (ft MRP)	DTW (ft MRP)	Initials	WL Meter Used (serial number)	Contact	Reference Point
	Depth to NAPL	DTW	2020		(π WRP)	(ILWIKP)		(Serial Humber)		Tollic
KAFB-106227	_	449.62	7-21-5	0,0	_	451.04	AR	WH0012		TWV
KAFB-106229	_ ***	436.02	7-21-2020	0.0		438.09	AR	0001		TWV
KAFB-106230		446.08	7-21-2020	0-0		447,54	98	W46012		TWV
KAFB-106235-438	<u>ii</u> ,	437.29	7-20-2020	0.0		438.19	GB	WH0012		TWV
KAFB-106235-472	_	437.28	7-20-2020	0.0		438.20	05	WAOOIZ		TWV
KAFB-106235-501		437.32	7-20-2020	0-0		438.28	D5	WH0612		TWV
KAFB-106236-436	_	437.09	7-20-2020	0,0	-	438.24	AR	WH0012		TWV
KAFB-106236-470		437.07	7-20-2026	0.0		438.27	DS	WA 0012		TWV
KAFB-106236-499	<u> </u>	437.11	7-20-2020	0.0		438.30	DS	WH0012		TWV
KAFB-106241-428	_	446.42	7-11-2020	0.0		447,51	AR	w110012		TWV

Table E-2-1
Water Level Meter Calibration Data

	Depth to Wat	ter (feet below gro	und surface)				
		Interface Probe		Difference Between Meters (feet)			
Well	253053 (control			253053 and	253053	253056	
Identification	probe)	253056	253056	and 0001	and 0001		
KAFB-106027	470.96	470.97	471.06	-0.01	-0.1	-0.09	
KAFB-106044	471.11	471.12	471.21	-0.01	-0.1	-0.09	
KAFB-106045	470.82	470.82	470.92	0	-0.1	-0.1	
		-0.01	-0.10	-0.09			
<b>Correction Factor</b>	0	0					

Table E-2-2
Gauging Calibration Corrections, Q3 2020

Well Location ID	Reference Elevation Interval (ft AMSL)	Date of Measurement	Depth to LNAPL (ft MRP)	Depth to Water (ft MRP)	Water Level Interface Probe Used (Serial Number)	Correction Applied (ft)	Corrected Depth to LNAPL (ft MRP)	Corrected Depth to Water (ft MRP)
KAFB-106001 <sup>a</sup>	4857/4838	7/23/2020	_	467.44	0001	-0.10	_	467.34
KAFB-106002	4857	7/23/2020	_	464.40	253053	0.00	_	464.40
KAFB-106003 KAFB-106004	4857 4857	7/23/2020 7/23/2020		462.10 468.11	253053 253053	0.00	<u> </u>	462.10 468.11
KAFB-106005	4857	7/23/2020		469.44	0001	-0.10		469.34
KAFB-106006	4857	7/23/2020		474.22	0001	-0.10	_	474.12
KAFB-106007	4857	7/24/2020	_	472.26	253053	0.00	_	472.26
KAFB-106008	4857	7/23/2020	_	474.31	253056	0.00	_	474.31
KAFB-106009	4857	7/23/2020	_	471.13	0001	-0.10		471.03
KAFB-106010 KAFB-106011	4857 4857	7/23/2020 7/23/2020		466.00 475.87	0001 253053	-0.10	_	465.90 475.87
KAFB-106011	4857	7/23/2020		467.61	253053	0.00		467.61
KAFB-106013	4857	7/22/2020	_	473.16	253053	0.00	_	473.16
KAFB-106014	4857	7/23/2020		472.84	0001	-0.10	_	472.74
KAFB-106015 <sup>a</sup>	4857/4838	7/24/2020	_	466.50	253053	0.00	_	466.50
KAFB-106016	4857	7/24/2020	_	464.69	253053	0.00	_	464.69
KAFB-106017 <sup>a</sup>	4857/4838	7/23/2020		465.71	0001	-0.10	_	465.61
KAFB-106018 <sup>a</sup>	4857/4838	7/22/2020 7/23/2020	_	459.06 477.74	0001	-0.10	_	458.96 477.64
KAFB-106019 <sup>a</sup> KAFB-106020	4857/4838 4857	7/23/2020	_	463.50	0001 0001	-0.10 -0.10	<u> </u>	463.40
KAFB-106020	4857/4838	7/20/2020		436.79	0001	-0.10		436.69
KAFB-106021	4857/4838	7/22/2020		441.33	253053	0.00		441.33
KAFB-106022	4857	7/24/2020	_	451.96	253053	0.00	_	451.96
KAFB-106024	4857	7/24/2020	_	466.52	253053	0.00	_	466.52
KAFB-106025 <sup>a</sup>	4857/4838	7/21/2020	_	439.73	253053	0.00	_	439.73
KAFB-106026	4857	7/21/2020	_	445.23	253053	0.00	_	445.23
KAFB-106027	4857	7/20/2020		470.96	253053	0.00		470.96
KAFB-106028 KAFB-106029	4857 4857	7/23/2020 7/20/2020		471.56 433.05	253056 253053	0.00		471.56 433.05
KAFB-106030	4838	7/20/2020		433.05	253053	0.00	<u>_</u>	433.12
KAFB-106031	4814	7/20/2020		433.24	253053	0.00		433.24
KAFB-106032	4857	7/21/2020	_	439.49	253053	0.00	_	439.49
KAFB-106033	4838	7/21/2020		439.62	253053	0.00	_	439.62
KAFB-106034	4814	7/21/2020		440.49	253053	0.00	_	440.49
KAFB-106035	4857	7/22/2020	_	445.20	253053	0.00	_	445.20
KAFB-106036 KAFB-106037	4838 4838	7/22/2020 7/22/2020		445.74 446.38	0001 253053	-0.10 0.00	<u> </u>	445.64 446.38
KAFB-106037	4857	7/23/2020		474.67	253053	0.00		474.67
KAFB-106039	4838	7/23/2020		474.49	253053	0.00	_	474.49
KAFB-106040	4814	7/23/2020	_	473.38	253053	0.00	_	473.38
KAFB-106041	4857	7/21/2020		446.93	253053	0.00	_	446.93
KAFB-106042	4857	7/21/2020	_	446.68	253053	0.00	_	446.68
KAFB-106043 KAFB-106044	4814 4838	7/21/2020 7/20/2020		446.95 471.11	253053 253053	0.00	<u> </u>	446.95 471.11
KAFB-106044	4814	7/20/2020		471.11	253053	0.00	<u>_</u>	470.82
KAFB-106046	4857	7/24/2020	_	475.63	253053	0.00	_	475.63
KAFB-106047	4838	7/24/2020	_	475.69	253053	0.00	_	475.69
KAFB-106048	4814	7/24/2020	_	475.34	253053	0.00	_	475.34
KAFB-106049	4857	7/21/2020	_	438.11	253053	0.00		438.11
KAFB-106050	4838	7/21/2020	_	437.50	253053	0.00		437.50
KAFB-106051 KAFB-106052	4814 4857	7/21/2020 7/21/2020		437.84 441.34	253053 0001	0.00 -0.10	<u> </u>	437.84 441.24
KAFB-106053	4838	7/21/2020	_	441.20	253053	0.00	_	441.20
KAFB-106054	4814	7/21/2020	_	440.81	253053	0.00	_	440.81
KAFB-106055 <sup>b</sup>	4857	7/21/2020		447.95	253053	0.00	_	447.95
KAFB-106057	4838	7/21/2020	_	448.31	253053	0.00	_	448.31
KAFB-106058	4814	7/21/2020		448.88	253053	0.00		448.88
KAFB-106059 KAFB-106060	4857	7/23/2020	470.40	470.41 468.06	253056	0.00	470.40	470.41 467.96
KAFB-106060 KAFB-106061	4838 4814	7/23/2020 7/23/2020		468.06 467.93	0001 253053	-0.10 0.00	<u> </u>	467.96 467.93
KAFB-106062	4814	7/23/2020		473.91	253053	0.00		473.91
KAFB-106063°	4838	NA NA	NA	NA	NA	0.00	NA	NA
KAFB-106064 <sup>c</sup>	4857	NA	NA	NA	NA	0.00	NA	NA
KAFB-106065	4838	7/23/2020		471.50	253053	0.00		471.50
KAFB-106066	4814	7/23/2020	_	471.86	253053	0.00		471.86
KAFB-106067	4857	7/21/2020	_	470.36	253053	0.00		470.36
KAFB-106068	4814 4838	7/21/2020	_	470.30 469.98	253053	0.00		470.30 460.08
KAFB-106069 KAFB-106070	4838 4857	7/21/2020 7/24/2020	<u> </u>	469.98 441.65	253053 253053	0.00		469.98 441.65
KAFB-106071	4814	7/24/2020	_	443.95	253053	0.00		443.95
KAFB-106072	4838	7/23/2020	_	442.21	0001	-0.10	<del>_</del>	442.11
KAFB-106073	4838	7/22/2020	_	462.32	253053	0.00	_	462.32
KAFB-106074	4814	7/22/2020	_	463.08	253053	0.00	_	463.08
KAFB-106075	4857	7/22/2020		463.04	253053	0.00		463.04
KAFB-106076 KAFB-106077	4857 4838	7/23/2020 7/24/2020		467.68 468.81	253056 253053	0.00		467.68 468.81
17/10/11-U 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	4838 4814	7/24/2020		468.81	253053	0.00		468.81
KAFB-106078				472.33	253056	0.00		472.33
KAFB-106078 KAFB-106079	4857	7/23/2020	_	4/Z.331	200000	0.00	<del>-</del>	T/ Z,UU
KAFB-106078 KAFB-106079 KAFB-106080	4857 4838	7/23/2020	<u> </u>	472.33	0001	-0.10		470.94
KAFB-106079								

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Table E-2-2
Gauging Calibration Corrections, Q3 2020

		Jaugiii			ons, Q3 2020 Water Level	<u> </u>		Τ
Well	Reference Elevation Interval	Date of	Depth to LNAPL	Depth to Water	Interface Probe Used (Serial	Correction Applied	Corrected Depth to LNAPL	Corrected Depth to Water
Location ID	(ft AMSL)	Measurement	(ft MRP)	(ft MRP)	Number)	(ft)	(ft MRP)	(ft MRP)
KAFB-106084	4814	7/22/2020	_	460.75	253053	0.00	_	460.75
KAFB-106085	4857	7/24/2020	_	439.97	253053	0.00	_	439.97
KAFB-106086 KAFB-106087	4838 4814	7/24/2020 7/23/2020		440.37 439.65	253053 0001	0.00 -0.10	_	440.37 439.55
KAFB-106088	4857	7/22/2020	<u> </u>	439.65	0001	-0.10	<u> </u>	439.33
(AFB-106089	4838	7/22/2020	_	447.08	253053	0.00	_	447.08
(AFB-106090	4814	7/22/2020		446.06	0001	-0.10	_	445.96
KAFB-106091	4857	7/22/2020	_	437.56	253053	0.00	_	437.56
KAFB-106092 KAFB-106093	4838 4814	7/22/2020 7/22/2020		437.57 437.49	253053 253053	0.00	<u> </u>	437.57
KAFB-106093 KAFB-106094	4814	7/21/2020	<u> </u>	437.49	253053	-0.10	<u> </u>	437.49 467.58
(AFB-106095	4838	7/21/2020		467.14	253053	0.00	_	467.14
KAFB-106096	4814	7/21/2020	_	467.89	0001	-0.10	_	467.79
(AFB-106097	4838	7/22/2020	_	470.10	253053	0.00	_	470.10
(AFB-106098	4814	7/22/2020	_	470.20	253053	0.00		470.20
KAFB-106099 KAFB-106100	4838 4814	7/23/2020 7/23/2020	<u> </u>	465.05 465.07	253053 253053	0.00	<u> </u>	465.05 465.07
KAFB-106101	4838	7/23/2020		462.35	253053	0.00	<u> </u>	462.35
(AFB-106102	4814	7/23/2020	_	462.48	253053	0.00	_	462.48
KAFB-106103	4838	7/23/2020	_	452.26	0001	-0.10	_	452.16
(AFB-106104	4814	7/24/2020	_	451.64	253053	0.00		451.64
(AFB-106105	4838	7/21/2020	_	444.72	0001	-0.10		444.62
(AFB-106106 (AFB-106107	4857 4814	7/21/2020 7/21/2020		444.50 444.83	253053 0001	0.00 -0.10	<u> </u>	444.50 444.73
(AFB-106107 (AFB-106148-484 <sup>d</sup>	4814 4857	7/21/2020		444.83	253056	0.00		444.73
KAFB-106148-484 d	4857	7/23/2020		468.70	253056	0.00	_	468.70
KAFB-106150-484 <sup>d</sup>	4857	7/23/2020	466.85	467.12	253056	0.00	466.85	467.12
KAFB-106151-484 <sup>d</sup>	4857	7/23/2020	_	468.47	253056	0.00	_	468.47
KAFB-106152-484 <sup>d</sup>	4857	7/23/2020	_	470.32	253056	0.00	_	470.32
KAFB-106153-484 <sup>d</sup>	4857	7/23/2020		471.72	253056	0.00		471.72
KAFB-106154-484 <sup>d</sup>	4857	7/23/2020	469.77	469.79	253056	0.00	469.77	469.79
(AFB-106155-484 <sup>d</sup>	4857	7/23/2020		470.33	253056	0.00	_	470.33
(AFB-106156-484 <sup>d</sup>	4857	7/23/2020	_	463.67	253056	0.00	_	463.67
(AFB-106201	4857	7/20/2020	_	484.36	253053	0.00	_	484.36
KAFB-106202 KAFB-106203	4838 4814	7/20/2020 7/20/2020		485.27 485.61	253053 253053	0.00	<u> </u>	485.27 485.61
(AFB-106204	4857	7/20/2020		456.04	253053	0.00		456.04
KAFB-106205	4838	7/20/2020	_	456.51	253053	0.00	_	456.51
KAFB-106206	4814	7/20/2020	1	456.73	253053	0.00		456.73
KAFB-106207	4857	7/20/2020		469.20	253053	0.00	_	469.20
KAFB-106208	4838	7/20/2020	_	469.02	253053	0.00	_	469.02
KAFB-106209 KAFB-106211 <sup>d</sup>	4814 4857	7/20/2020 7/23/2020	<u> </u>	468.73 465.28	253053 253053	0.00	<u> </u>	468.73 465.28
KAFB-106211 KAFB-106212	4814	7/22/2020		445.95	253053	0.00		445.95
KAFB-106213	4857	7/22/2020	_	448.62	253053	0.00	_	448.62
KAFB-106214	4838	7/22/2020	_	448.86	253053	0.00		448.86
KAFB-106215	4814	7/22/2020	_	449.08	253053	0.00	_	449.08
(AFB-106216	4857	7/20/2020		457.20	253053	0.00		457.20
KAFB-106217 KAFB-106218	4838 4814	7/20/2020 7/20/2020		457.12 457.30	253053 253053	0.00	_	457.12 457.30
KAFB-106218	4857	7/20/2020		464.20	253053	0.00	<u> </u>	464.20
(AFB-106220	4838	7/20/2020		464.12	253053	0.00		464.12
KAFB-106221	4814	7/20/2020		463.88	253053	0.00	_	463.88
KAFB-106222	4857	7/20/2020	_	456.56	253053	0.00		456.56
KAFB-106223	4838	7/20/2020	_	457.21	253053	0.00	_	457.21
(AFB-106224 (AFB-106225	4814 4857	7/20/2020 7/21/2020		458.34 449.63	253053 253053	0.00	<del>-</del>	458.34 449.63
(AFB-106225 (AFB-106226	4838	7/21/2020		449.63	253053	0.00	<u> </u>	449.63
(AFB-106227	4814	7/21/2020		450.27	253053	0.00		451.04
(AFB-106229 <sup>a,d</sup>	4857/4838	7/21/2020	_	438.09	0001	-0.10	_	437.99
(AFB-106230	4814	7/21/2020	_	447.54	253053	0.00	_	447.54
(AFB-106231	4857	7/20/2020	_	450.38	253053	0.00	_	450.38
(AFB-106232	4814	7/20/2020	_	450.00	253053	0.00	<u> </u>	450.00
(AFB-106235-438 (AFB-106235-472	4857 4838	7/20/2020 7/20/2020	_	438.19 438.20	253053 253053	0.00	<u> </u>	438.19 438.20
(AFB-106235-501	4814	7/20/2020	_	438.28	253053	0.00	<u> </u>	438.28
(AFB-106236-436	4857	7/20/2020	_	438.24	253053	0.00	_	438.24
(AFB-106236-470	4838	7/20/2020		438.27	253053	0.00		438.27
(AFB-106236-499	4814	7/20/2020	_	438.30	253053	0.00	_	438.30
(AFB-106240-449	4857	7/22/2020	_	470.09	253053	0.00		470.09
(AFB-106241-428	4857 4857	7/21/2020	_	447.51 438.64	253053	0.00	<del></del>	447.51
(AFB-106242-418 (AFB-106243-425	4857 4857	7/20/2020 7/22/2020		438.64 443.61	253053 253053	0.00		438.64 443.61
(AFB-106244-445	4857	7/23/2020		465.85	253053	0.00		465.85
(AFB-106245-460	4857	7/23/2020	_	483.90	253053	0.00	_	483.90
(AFB-106247-450	4857	7/24/2020	_	474.37	253053	0.00		474.37
(AFB-106S1-447	4857	7/23/2020	_	467.76	253056	0.00	_	467.76
(AFB-106S2-451	4857	7/23/2020		474.96	253056	0.00	_	474.96
(AFB-106S3-449 (AFB-106S4-446	4857 4857	7/23/2020	<u> </u>	474.00 469.19	253056 0001	0.00 -0.10	<u> </u>	474.00 469.09
(AFB-106S4-446 (AFB-106S5-446	4857 4857	7/23/2020 7/23/2020		469.19	253056	0.00	<u> </u>	469.09
🐸	1001	112012020		700.13	20000	0.00	1	+00.10

Kirtland AFB BFF Quarterly Report – July-September 2020 SWMUs ST-106/SS-111

## Table E-2-2 Gauging Calibration Corrections, Q3 2020

Well Location ID	Reference Elevation Interval (ft AMSL)	Date of Measurement	Depth to LNAPL (ft MRP)	Depth to Water (ft MRP)	Water Level Interface Probe Used (Serial Number)	Correction Applied (ft)	Corrected Depth to LNAPL (ft MRP)	Corrected Depth to Water (ft MRP)
KAFB-106S8-451	4857	7/23/2020	_	474.08	253056	0.00	_	474.08
KAFB-106S9-447	4857	7/23/2020	_	468.68	253056	0.00	_	468.68
KAFB-3411	4857	7/24/2020	_	465.92	253053	0.00	_	465.92

<sup>&</sup>lt;sup>a</sup> Well used in analyses for both REI 4857 and 4838.

ft = foot/feet ID = identification

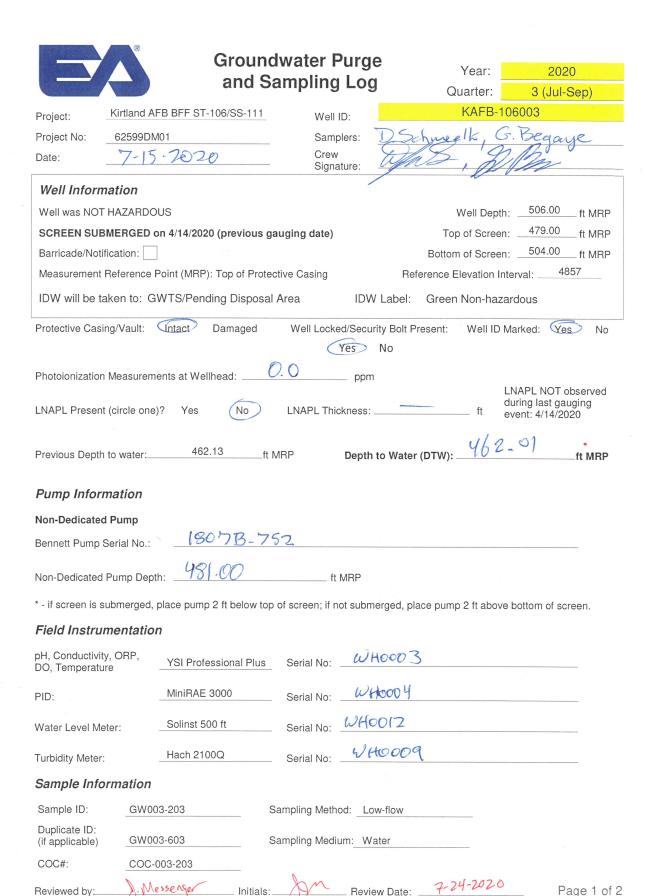
— = LNAPL not detected

LNAPL = light non-aqueous phase liquid MRP = measurement reference point REI = reference elevation interval

<sup>&</sup>lt;sup>b</sup> The initial measurement at KAFB-106055 on 7/21/2020 showed a water level decrease of 0.66 feet since Q2 2020, while the decrease at the other wells in the cluster (KAFB-106057, KAFB-106058, and KAFB-106241) was 1.09 feet. This cluster was re-gauged on 7/31/20 to check the initial readings. At that time, the water level in KAFB-106055 showed a decrease of -1.73 since Q2 2020, consistent with other wells in the cluster. KAFB-106057 and KAFB-106058 showed a decrease of 1.74 ft, and KAFB-106241 had a decrease of 1.67. It was therefore determined that the original measurement on 7/21/2020 at KAFB-106055 was in error, and the measurement was back-calculated to assume a decrease of 1.08 ft since Q2 2020, consistent with the other wells in the cluster.

<sup>&</sup>lt;sup>c</sup> Well was not gauged due to presence of monitoring equipment.

<sup>&</sup>lt;sup>d</sup> Well not permanently designated in REI listed. AMSL = above mean sea level





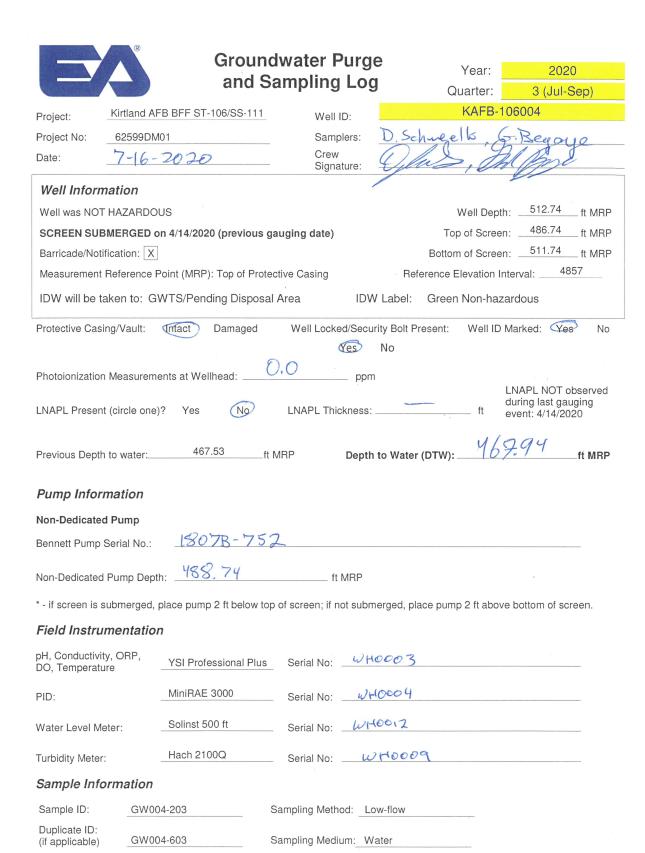
# Groundwater Purge

	,			ruige		Year:	202	0
		and S	ampiii	ng Log		Quarter:	3 (Jul-	Sep)
Project: Kirtland A	AFB BFF ST-10	06/SS-111	٧	Vell ID:		KAFB-106	8003	
Purge Information a	and a	arameter			Date:	7-15-2	020	
Purge Start Time:	30 <sup>3</sup>	_ Purge Rat	e: <b>0.9</b>	70 L/mi	in X 0.26	5 = 0.2	438 g	al/min
Description of first water p	ourged:	clear	and	dor le	255			
Drawdown Limit:	16.87	ft (based	on previou	s water level)				
Time	DTW (ft)	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	рН	ORP (mV)
Stabilization Requirements		If >10,±10%	±10%		±10%	±10%	±0.5	
Historical Data:	462.13	0.96	17.1		6.5	867	7.85	159.8
1035	462.03	1.75	21.6	126.2	11.01	450.8	8.07	349.1
1040	462.04	4.13	21.0	20.6	7.24	602	7.76	350.4
1045	462.04	3.40	20.5	72.7	6.50	586	7.78	341.8
1050	462.04	2.86	20.5	72.3	6.50	598	7.79	336.3
1055	462.04	2.31	20.4	74.3	6.64	602	7,79	329:9
						/		
					A			
Sample Time: 10	56		C	ala Data.	7-15-	2020		
10	59		Sam	ole Date:				6mm
Purge End Time:	<u> </u>							
Bubbles in the vials?:	Yes /	No Whe	e?		Amount _		Size	
Sampled by: D.S	chule/k		Samp	ler Signature:	Sign	5.		
IDW Management				-				
Estim	ated volume p	er						
Drum No. ID	W drum (gal)		ا النب	o takan ta		IDW Label:		
	1	- 1		e taken to:				
2				Pending sal Area		Green Non- nazardous		
Total								
Comments:								

\_ Initials:

Review Date: \_\_

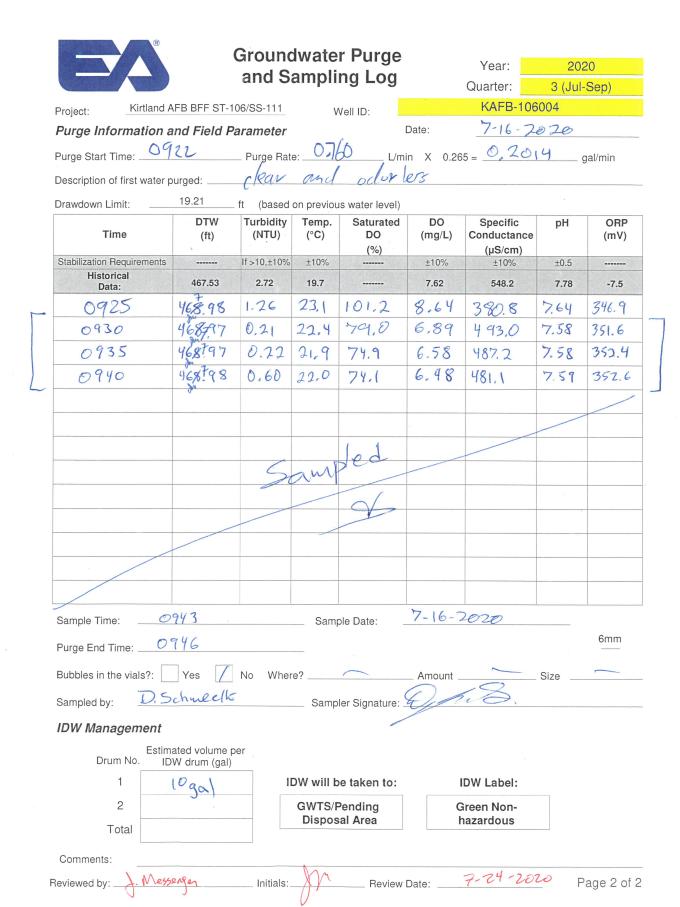
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COC-004-203

Review Date:





# **Groundwater Purge**

		and Sa	malia	a l 0	NI.	Year:	2020				
		and Sa	ampiin	g ro	3	Quarter:	3 (Jul-Sep)				
Project: Ki	irtland AFE	BFF ST-106/SS-111	We	ell ID:		KAFB-1	06005				
Project No: 6	62599DM0	1	Sar	mplers:	D. Sch	reglk,	G. Begginse				
Date:	7-13-	2020	Cre Sig	ew nature:	Hoffe	2	Je Bri				
Well Informat	tion			1		,					
Well was NOT HA	AZARDOU	S				Well Depti	h:508.87ft MRP				
SCREEN SUBME	ERGED on	4/16/2020 (previous ga	uging date	)		Top of Screen	n:481.87ft MRP				
Barricade/Notification: Bottom of Screen: 506.87 ft MRP											
Measurement Reference Point (MRP): Top of Protective Casing  Reference Elevation Interval:4857											
IDW will be take	en to: Per	nding Analysis Yard		IDV	V Label: Wh	nite Pending	Analysis				
Protective Casing/	Vault:	Intact Damaged	Well Loc		rity Bolt Presen	t: Well ID	Marked: Yes No				
				Yes	No						
Photoionization Me	easuremer	nts at Wellhead:	9	ppm	า		I NIADI NOT				
LNAPL Present (circle one)? Yes No LNAPL Thickness:  LNAPL NOT observed during last gauging event: 4/16/2020											
Previous Depth to	water:	468.63 ft N	/IRP	Donah	to Water (DTV	n. 469.	() ()				
r revious Deptir to	water		ara.	Depth	r to water (DTV	(V):	ft MRP				
Pump Informa	ntion										
Non-Dedicated Po	ump	10-53 00									
Bennett Pump Ser	rial No.:	1807B-90	) 2			4					
Non-Dedicated Pu	mp Depth:	483.67	·	ft MRP							
* - if screen is subr	merged, pl	ace pump 2 ft below top	of screen; if	f not subn	nerged, place p	ump 2 ft abov	e bottom of screen.				
Field Instrume	entation										
pH, Conductivity, C DO, Temperature	ORP,	YSI Professional Plus	Serial No	: 18L	100376	,					
PID:	_	MiniRAE 3000	Serial No	WH	0004						
Water Level Meter	: _	Solinst 500 ft	Serial No	25	3056 0007		•				
Turbidity Meter:		Hach 2100Q	Serial No	WH	0007						
Sample Inform	nation										
Sample ID:	GW005	-203 S	ampling Me	thod: Lo	ow-flow						
Duplicate ID: (if applicable)	GW005	-603 S	ampling Me	dium: W	ater						
COC#:	COC-00	95-203									
			bon			24-7020					

Review Date: 7-24-2020 Page 1 of 2



**Groundwater Purge** Year: 2020 and Sampling Log Quarter: 3 (Jul-Sep) Kirtland AFB BFF ST-106/SS-111 KAFB-106005 Project: Well ID: Purge Information and Field Parameter 7-13-2020 Date: Purge Start Time: 1410 Purge Rate: 08 40 L/min X 0.265 = 0.2726Description of first water purged: Clear 3 light VOC Drawdown Limit: 13.24 (based on previous water level) DTW Turbidity Temp. Saturated DO Specific рН ORP Time (ft) (NTU) (°C) DO (mg/L)Conductance (mV) (%) (µS/cm) Stabilization Requirements If >10,±10% ±10% ±10% ±10% ±0.5 Historical 468.63 10.9 18.3 0.58 2463 7.06 -154.9 1420 469.07 300 23.6 69.6 5.59 1122 7.20 9.4 1425 469,07 52.9 22.1 11.8 1.03 1176 7.28 -1441 1430 5,2 469.07 32,3 22.7 0,45 1181 7.32 -193.8 1435 469,07 28,0 22,6 3,9 0,34 1176 7.34 -215.3 1440 469.07 22.5 22.6 3,2 0.27 1177 7.35 -227.4 1445 2.9 469.07 21.8 22.6 0.25 1174 7.36 -240.6 1450 469.07 22.5 19.3 0.25 2.9 1179 7.36 -253 1455 469.07 17.2 22.6 2.8 0.24 1177 7.37 -259.1 1500 469.06 22.4 2.7 16.2 0.24 1176 7.37 -264.2 1505 969.06 14.7 22.0 2.6 0.23 1176 7.37 -275.5 2.6 1510 469,06 13.2 22.2 0.23 1180 7.37 -279.9 1515 469.06 2.6 1.3.1 22.5 0.22 1179 7.38 284.7 1520 469.06 13.8 22.4 2.5 0.21 1179 7.38 289. 1525 7-13-2020 Sample Time: Sample Date: Purge End Time: 1528 6mm Bubbles in the vials?: Where? Amount Sampled by: Sampler Signature: IDW Management Estimated volume per

Drum No. IDW drum (gal) 1 2 Total

IDW will be taken to:

**Pending Analysis** 

**IDW Label:** 

White Pending **Analysis** 

Comments: Reviewed by:

Initials

Review Date:

7-24-2020

Page 2 of 2



Well Location ID: KAFB-106009

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW009-203

Well Information			Well Depth: _	511.19 ft MRP
Screen Interval Length (ft): 25			Top of Screen: _	483.69 ft MRP
Previous Depth to Water (MRP): 470.30 (Gauged of	on 4/16/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	508.69 ft MRP
Length of Screen not submerged (ft): -13.39				
Deployment Team: D. Schnlelk, G.	Begaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2020 Time		484.39		
		2	486.99	
PID: MiniRAE 3000 Serial No:	WH0004		3	489.59
Water Level Meter: Solinst 500 ft Serial No:			4	492.19
	QC sample notes.		5	494.79
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s):	6	497.39
		- Alkalinity - BTEX	7	499.99
Depth to Water:	Duplicate sample required. Please	- Anions	8	502.59
	deploy extra DMS as needed	- Dissolved Metals		
		- EDB		
DMS Tether and Reel ID match Well ID?		- NO3/NO2-N		
Initial to confirm that ID check was completed		- Total Metals		
Check was completed				
Notes:		1.		
Reviewed by: Massenger	Review Date: 6-18-2020			ue represent submerged n previous water level

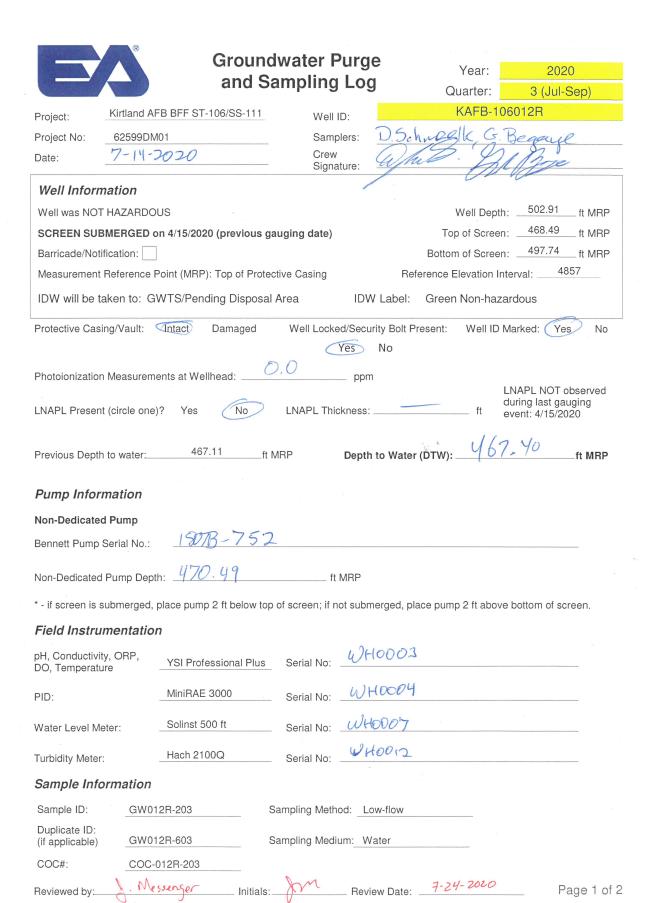


Year: 2020

		Well Loc	ation ID:	KAFB-1060	009 <u>Sa</u>	ampling		ter: 3 ID: GW009-	203	
Date Sampled:	7-9-200	20 Tim	ne Sampled:	1220	Sampling Tea	m: D. 3 chu	eelk, G.	Begaye		
PID Reading:	0.0			Reel ID match Well ID		Initial to confirm the was completed		V V		
Sampler Number: (shallow to deep)  Type of Analysis (circle appropriate)  Document in notes Dup? MS/MSD?										
, 1	EDB	VOCs	e only one BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
2	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
3	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	7	
4	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
5	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
6	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		6mm
								Duplica	ate sam	ple required.
PID:	Min	RAE 3000	Seria	No: WHOOG						
IDW will be taken	to: <b>Dandi</b> r	ng Analysi	s Vard					Sample ID:	GWC	009-203
Notes: Boo	60 /	phoate		and Nitrate/	Intato Ba	got Ba	a The deplica	Duplicate ID: (if applicable)	GWC	009-603
Notes:		progre	1	20- 101112/1	Will Care	2	2)	COC#:	COC	C-009-203
Beviewed by:	n Nessonsor	,						Review Date:	7-10-	- 2020

Kirtland AFB BFF Quarterly Report - July-September 2020 SWMUs ST-106/SS-111

December 2020





# Groundwater Purge and Sampling Log

Year: Quarter: 3 (

2020 3 (Jul-Sep)

- 1	$\Box$	-	10	0	٠.
		ro	ıe	C	١.

Kirtland AFB BFF ST-106/SS-111

Well ID:

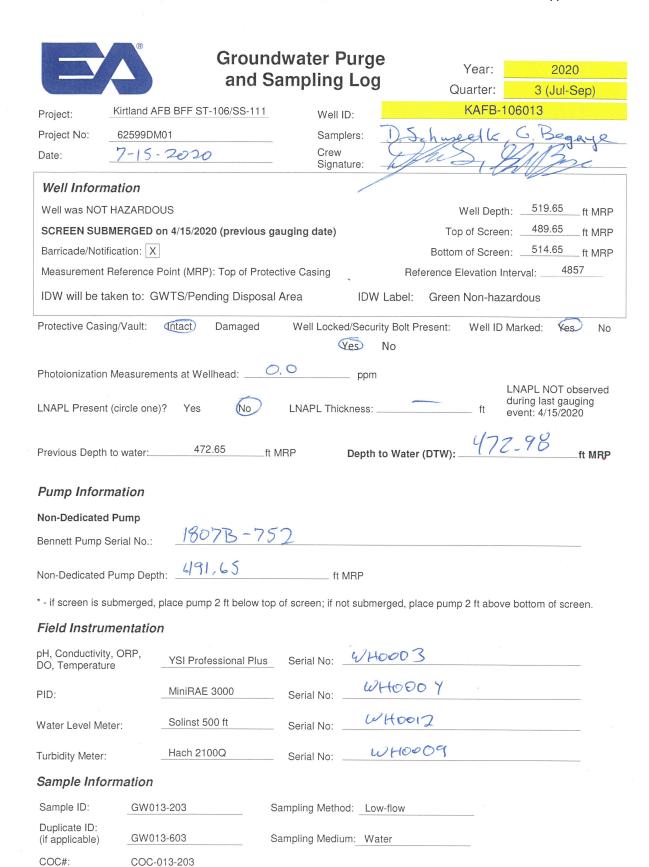
KAFB-106012R

Purge Information and Field P	Parameter	Date:	7-14-2020	
Purge Start Time: 1/30	Purge Rate: O-640	L/min X 0.265	= 3.1696 gal/min	

Description of first water purged: CRAW and Odov 1855

Drawdown Limit:	1.38	ft (based	on previou	s water level)				
Time	DTW (ft)	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	рН	ORP (mV)
Stabilization Requirements		If >10,±10%	±10%		±10%	±10%	±0.5	
Historical Data:	467.11	10.1	20.4		8.16	1974	7.36	146
1135	467.45	3.23	23.8	120.1	10.10	1410	7.41	290,1
1140	467.46	7.48	22.9	98.4	8.34	1494	7.35	308.4
1145	467.46	18.8	22.4	91.2	7.84	1387	7.35	314.7
1150	467.46	22.8	22.7	89.0	7.60	1350	7.34	318.4
1155	467.46	22.8x	22.8	87.8	7.50	1356	7.34	320.3
X Ht 1200	467, 46	20.2	22.2	85.4	7.41	1362	7.35	320.6
1205	467.46	17.8	22.7	83.2	7.13	1373	7.33	320.7
1210	467.45	20.3	23.4	81.8	6.97	1370	7.34	318-5
1215	467.45	182	23.0	81.2	6.94	1377	7.34	317.4
1220	467.45	14.7	22.1	80.5	6.97	1380	7.35	313.5
1225	467.45	13.1 -	22.8	79.4	6.82	1390	7.35	312.7
1230	467.45	15.4	23.0	80.0	6.83	1388	7.36	308.0
1235	467.45	12.0	22,9	81.1	6.93	1400	7.36	300.8

Sample Time:	1240	Sample Date:	7-14-2020	
Purge End Time:	1258			6mm
Bubbles in the via	Is?: Yes No	Where?	Amount Siz	:e
Sampled by:	D. Schneelk	Sampler Signature:	and.	
IDW Managen	nent	-		
Drum No.	Estimated volume per IDW drum (gal)			
1	17	IDW will be taken to:	IDW Label:	
2		GWTS/Pending	Green Non-	
Total		Disposal Area	hazardous	
Comments:				
Seviewed by:	1.1N. sengor	Initials: Review	7-24-2020	Page 2 of 2



Page 1 of 2

7-24-2020

Review Date:



# Groundwater Purge and Sampling Log

Year: Quarter: 2020 3 (Jul-Sep)

Project:

Kirtland AFB BFF ST-106/SS-111

Purge Information and Field Parameter

Well ID:

Date:

KAFB-106013 7-15-2020

		<u> </u>					
	. 7 7 2	Purge Rate: 0.600				0 - 0	
Purge Start Time:	11 14		1 / 1		0 005	() 14 7	
Purge Start Time:	1230	Purde Bate.	I /min	. X	() 265 =	$\cup$ , 1 $\supset$	gal/min
I digo otali illilo.				, ,	0.200 -		garrinii

Description of first water purged: Clear 3 odos less

Time	DTW (ft)	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	рН	ORP (mV)
tabilization Requirements		If >10,±10%	±10%		±10%	±10%	±0.5	
Historical Data:	472.65	2.64	19.8		1.08	419.1	7.19	65.7
1245	473.01	2.13	24.4	98.3	8.18	453.6	7.63	308.1
1250	473.0(	9.39	23.5	79.2	6,77	447.2	7.60	312.6
1255	473.01	7.75	23.0	59.5	5,11	452.8	7.60	30.5
1300	473.01	9.26	23.5	52.2	4.43	452.9	7.61	302,6
1305	473.01	8.99	23.9	49,5	4.17	452.1	7.62	292.0
1310	473.01	6.67	23.9	48.1	4.05	451.8	7.63	278.4
						,		
				<u> </u>				
			0					
			-	Y				
		-		х				
ample Time:13	13		Samı	ole Date:	7-15-	2020	1	
urge End Time:13	. (							6mm

Purge End Time	: 1316					6mm 
Bubbles in the v	als?: Yes	No Where?		Amount	Size _	Control of the Contro
Sampled by:	Dylan Schu	neelk	Sampler Signature:	a fr		

#### IDW Management

Drum No.	IDW drum (gal)		
1	11 gal	IDW will be taken to:	IDW Label:
2	0	GWTS/Pending	Green Non- hazardous
Total	,	Disposal Area	nazardous

Comments:

Reviewed by: Ne ssenger

Initials:

Review Date:

7-24-2020

Page 2 of 2

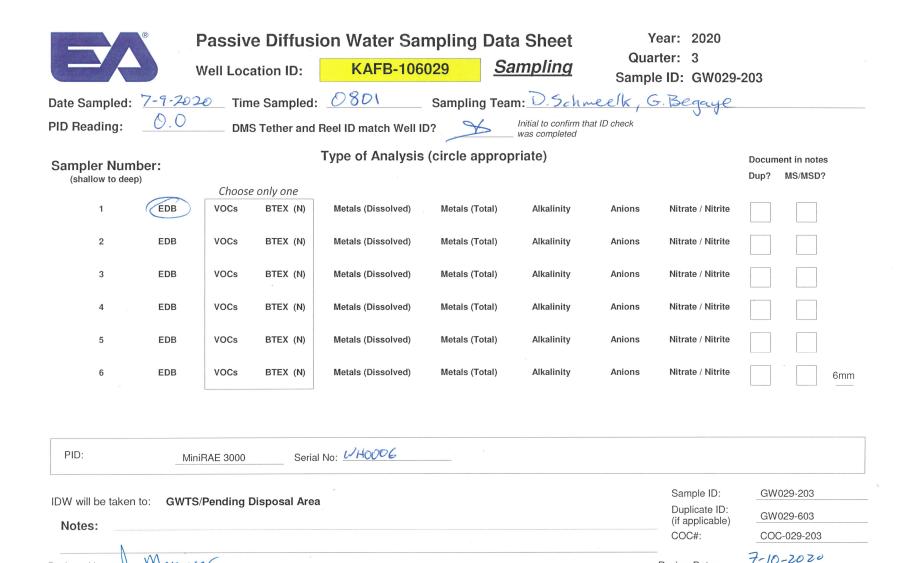


Well Location ID:

Year: 2020 Quarter: 3 **Deployment** KAFB-106029

Sample ID: GW029-203

Well Information			Well Depth:	475.80 ft MRP
Screen Interval Length (ft): 20			Top of Screen:	450.80 ft MRP
Previous Depth to Water (MRP): 432.42 (Gauged	on 4/14/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	470.80 ft MRP
Length of Screen not submerged (ft): -18.38				
Deployment Team: D. Schneelle, G.	Sampler Number:	Top of Sampler Depth (MRP)		
Date Deployed: 6-15-2020 Time		1	451.50	
		2	454.10	
PID: MiniRAE 3000 Serial No:	WH0004		3	456.70
Water Level Meter: Solinst 500 ft Serial No:			4	459.30
O.O.	QC sample notes.	Analyte(s):	5	461.90
PID Reading: ppm	(If blank, no QC samples required):	- EDB	6	464.50
	No. of the second second	LUB	7	467.10
Depth to Water:				
	*			
DMS Tether and Reel ID match Well ID?	, '			
check was completed				
Notes:				
Reviewed by: Messenger	Review Date: 6-18-2020			ue represent submerged n previous water level



Reviewed by:

Review Date:



Well Location ID:

KAFB-106030

Deployment

Year: 2020

Quarter: 3

Sample ID: GW030-203

Well Information			Well Depth:	489.90 ft MRP
Screen Interval Length (ft): 15			Top of Screen:	469.50 ft MRP
Previous Depth to Water (MRP): 432.54 (Gauged	on 4/14/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	484.50 ft MRP
Length of Screen not submerged (ft): -36.96				- 1
Deployment Team: D. Schneelk, G. J	Egest		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-15-2020 Time	Deployed: 1002		<b>9</b>	470.20
	240004		<b>(2</b> )	472.80
PID: MiniRAE 3000 Serial No:	7 // (		3	475.40
Water Level Meter: Solinst 500 ft Serial No:			4	478.00
	QC sample notes.		5	480.60
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s):		
		- EDB		
Depth to Water:				
$\overline{\mathcal{A}}$				
DMS Tether and Reel ID match Well ID?				
Initial to confirm that ID check was completed				
		,	*	
Notes:		•		
	·		Dontha highlights of his	to represent automor
Reviewed by: Messenger	Review Date: 6-18-2020			ne represent submerged In previous water level
*				



Kirtland AFB BFF Quarterly Report - July-September 2020 SWMUs ST-106/SS-111



Well Location ID:

KAFB-106031

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW031-203

Well Information			Well Depth:	514.90 ft MRP
Screen Interval Length (ft): 14			Top of Screen:	495.80 ft MRP
Previous Depth to Water (MRP): 432.56 (Gauged o	on 4/14/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	509.50 ft MRP
Length of Screen not submerged (ft): -63.24				
Deployment Team: D. Schweelk, G. Ber	gaye		Sampler Number:	Top of Sampler Depth (MRP)
	Deployed: <u>0937</u>		1	496.50
	WH0004		2	499.10
PID: MiniRAE 3000 Serial No:	W110009		3	501.70
Water Level Meter: Solinst 500 ft Serial No:	And the second second second second		4	504.30
	QC sample notes.		5	506.90
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s): - EDB		
Depth to Water:		- LDB		
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed				
Notes:				
Reviewed by: Messenger	Review Date: 6-18-2020			ne represent submerged In previous water level





Year: 2020 Quarter: 3

Well Location ID:

KAFB-106032 Deployment

Sample ID: GW032-203

480.50 ft MRP Well Depth: Well Information 456.00 ft MRP Top of Screen: Screen Interval Length (ft): 20 476.00 ft MRP LNAPL NOT detected during prior gauging Bottom of Screen: (Gauged on 4/15/2020) Previous Depth to Water (MRP): 439.06 Length of Screen not submerged (ft): -16.94 Top of Sampler Sampler Deployment Team: D. Schwelk, G. Begage Depth (MRP) Number: 1 456.70 Date Deployed: 6-17-2626 2 459.30 Serial No: 4 HOOO4 3 461.90 MiniRAE 3000 PID: 464.50 Serial No: Solinst 500 ft Water Level Meter: 467.10 QC sample notes. Analyte(s): 469.70 (If blank, no QC samples required): ppm PID Reading: - EDB 472.30 Depth to Water: DMS Tether and Reel ID match Well ID? Initial to confirm that ID check was completed Notes: Depths highlighted blue represent submerged 6-18-2020 samplers based on previous water level Review Date: Reviewed by:



Reviewed by

7-10-2020

Review Date:



Well Location ID:

KAFB-106033

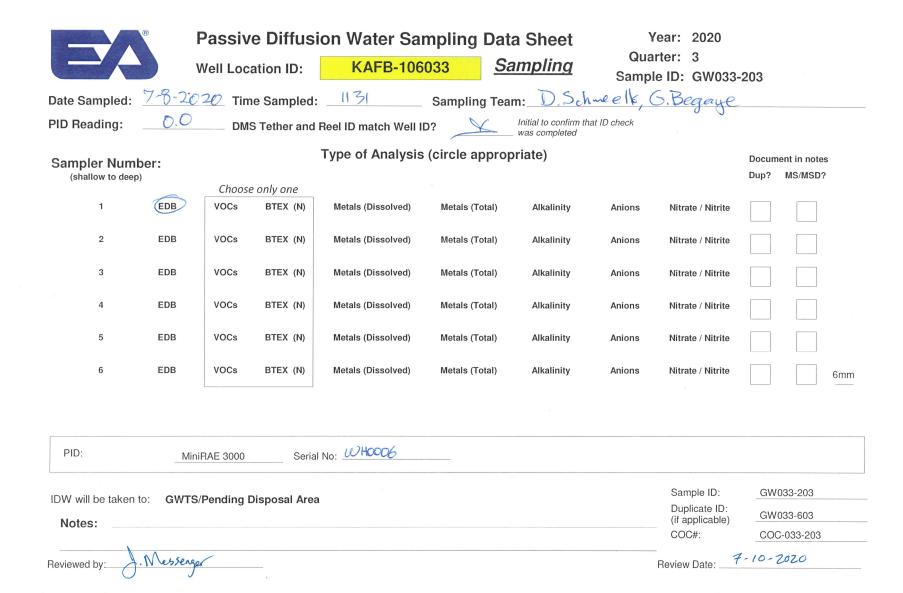
**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW033-203

Well Information	Well Depth:	496.60 ft MRP
Screen Interval Length (ft): 15	Top of Screen:	
Previous Depth to Water (MRP): 439.22 (Gauged on 4/15/2020) LNAPL NOT detected during prior gauging	Bottom of Screen:	
Length of Screen not submerged (ft): -37.78		
Deployment Team: D. Schneck G. Begave	Sampler Number:	Top of Sampler Depth (MRP)
1117	9	477.70
Date Deployed: Time Deployed:	2	480.30
PID: MiniRAE 3000 Serial No: WHOOUY	3	482.90
	4	485.50
Water Level Meter: Solinst 500 ft Serial No:	5	488.10
PID Reading: ppm QC sample notes.		
- EDB		
Depth to Water:		
The Table 10 and 10 and 10 Mall 102		
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID		
check was completed		
Notes:		
Notes:		
	Depths highlighted	blue represent submerged
Reviewed by: 6-18-2020	samplers based	on previous water level





Well Location ID: KAFB-106034

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW034-203

Well Information	Well Depth:	522.00 ft MRP
Screen Interval Length (ft): 15	Top of Screen:	502.00 ft MRP
Previous Depth to Water (MRP): 440.06 (Gauged on 4/15/2020) LNAPL NOT detected during prior gauging	Bottom of Screen:	517.00 ft MRP
Length of Screen not submerged (ft): -61.94		
Deployment Team: D. Schnelk, G. Begaye	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2020 Time Deployed: 1(26	<b>(7)</b>	502.70
DID: MiniBAE 2000 Sorial No. WHOOF	(2)	505.30
PID: MiniRAE 3000 Serial No:	3	507.90
Water Level Meter: Solinst 500 ft Serial No:	4	510.50
PID Reading:ppm	5	513.10
Reviewed by: Review Date:		lue represent submerged on previous water level





Well Location ID:

KAFB-106041

**Deployment** 

Year: 2020 Quarter: 3

Sample ID: GW041-203

Well Information			Well Depth:	473.80 ft MRP
Screen Interval Length (ft): 20			Top of Screen: _	449.00 ft MRP
Previous Depth to Water (MRP): 445.85 (Gauged of	on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	469.00 ft MRP
Length of Screen not submerged (ft): -3.15 ****	(Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: D. Schweek, 63	Segonf	,	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2020 Time	Deployed: 0759	<u>.</u>	9	449.70
PID: MiniRAE 3000 Serial No:	WH000Y		3	452.30 454.90
Water Level Meter: Solinst 500 ft Serial No:	WH0012		4	457.50
<b>%</b> 6	QC sample notes.	Analyte(s):	5	460.10
PID Reading:ppm	(If blank, no QC samples required):	- Alkalinity	6	462.70
Depth to Water: 446.27  Measure Water Level		- Anions - Dissolved Metals - EDB	7	465.30
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed	MS/MSD required. Please deploy extra DMS as needed	- NO3/NO2-N - Total Metals		
Notes:				
Reviewed by: Ne 55e yet	Review Date: 6-18-7070			e represent submerged n previous water level

Date Sampled:		Vell Loca	ation ID: e Sampled		Sampling Teal	nmpling m: D. Schn	Quai Sample eelk G	ear: 2020 rter: 3 e ID: GW041- Begaye	203		
PID Reading:		DMS	S Tether and	Reel ID match Well	ID? (1/2)	Initial to confirm th was completed	ат по спеск				
Sampler Numl	oer:			Type of Analysis	s (circle approp	riate)			Docum	ent in notes	5
(shallow to deep	)	Charia			y.				Dup?	MS/MSD?	
1	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
2	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
3	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	5		
4	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
5	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
6	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			6mm
,								MS	S/MSD r	equired.	
PID:	MiniF	RAE 3000	Seria	al No: WHOOG							
IDW will be taken	to: GWTS/	Pandina F	)isposal Are					Sample ID:	GW	041-203	
Notes:	. GW15/1	renunig L	nsposai Are	a				Duplicate ID: (if applicable)	GW	041-603	
140165.								COC#:	COC	C-041-203	
Reviewed by:	1. Messen	ger						Review Date:	7-10	-2020	



Well Location ID:

KAFB-106049

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW049-203

Well Information		Well Depth: _	480.70 ft MRP
Screen Interval Length (ft): 20		Top of Screen: _	456.80 ft MRP
Previous Depth to Water (MRP): 437.36 (Gauged on 4/15/2020) LNAPL NOT detected d	uring prior gauging	Bottom of Screen: _	476.80 ft MRP
Length of Screen not submerged (ft): -19.44			
Deployment Team: Dylan Schweelk, Galvestar Begage		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time Deployed: 1206		1	457.50
		(2)	460.10
PID: MiniRAE 3000 Serial No: WHOODG		3	462.70
Water Level Meter: Solinst 500 ft Serial No:		4	465.30
		5	467.90
PID Reading: npm (If blank, no QC samples required):	Analyte(s): - EDB	6	470.50
Depth to Water:	- EDB	7	473.10
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed		,	
Notes:			
Reviewed by: Review Date: 6-18-2020		Depths highlighted blue samplers based on	e represent submerged previous water level





Well Location ID:

KAFB-106050

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW050-203

Well Information	Well Depth:	494.80 ft MRP
Screen Interval Length (ft): 15	Top of Screen:	474.40 ft MRP
Previous Depth to Water (MRP): 436.75 (Gauged on 4/15/2020) LNAPL NOT detected during prior gauging	Bottom of Screen:	489.40 ft MRP
Length of Screen not submerged (ft): -37.65		15
Deployment Team: D. Schneelk, G. Begaye.	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time Deployed: 12.19		475.10
(1)H0000	2	477.70
PID: MiniRAE 3000 Serial No: WHOOOG	3	480.30
Water Level Meter: Solinst 500 ft Serial No:	4	482.90
PID Reading:  ppm  QC sample notes. (If blank, no QC samples required): - EDB	5	485.50
Depth to Water:		
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed		u u
Notes:		
Reviewed by: Review Date: 6-18-2020		ue represent submerged n previous water level





Well Location ID:

KAFB-106051

**Deployment** 

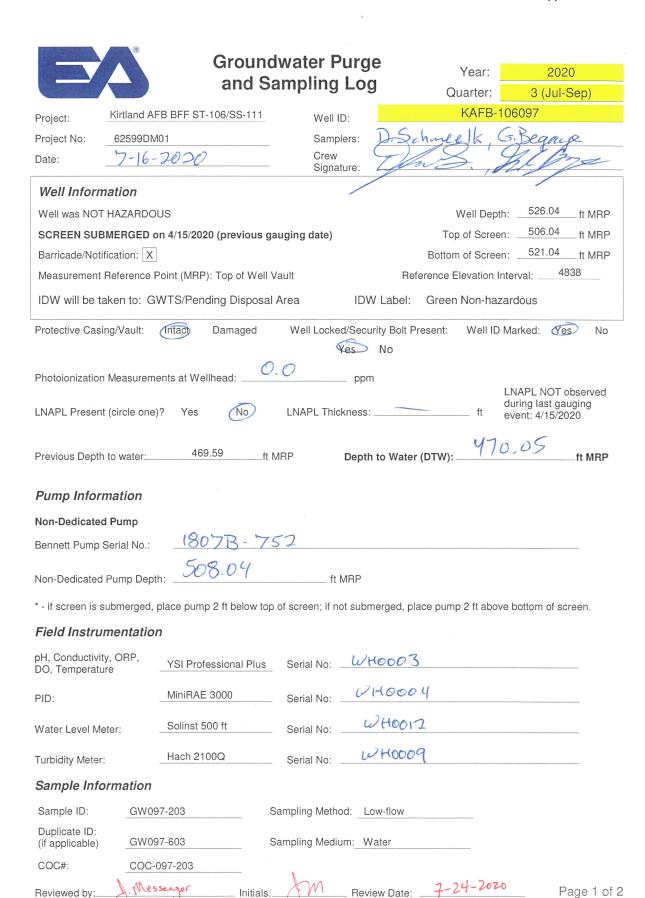
Year: 2020

Quarter: 3

Sample ID: GW051-203

Well Information	Well Depth:	521.20 ft MRP
Screen Interval Length (ft): 15	Top of Screen:	500.80 ft MRP
Previous Depth to Water (MRP): 437.06 (Gauged on 4/15/2020) LNAPL NOT detected during prior gauging	Bottom of Screen:	515.80 ft MRP
Length of Screen not submerged (ft): -63.74		
Deployment Team: D. Schweck, G. Begage	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time Deployed: 1236		501.50
PID: MiniRAE 3000 Serial No: (a) HOOG	<b>②</b>	504.10
PID: MiniRAE 3000 Serial No:	3	506.70
Water Level Meter: Solinst 500 ft Serial No:	4	509.30
PID Reading: ppm	5	511.90
Depth to Water: Duplicate sample required. Please deploy extra DMS as needed		
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed		
Notes:		
Reviewed by: Review Date: 6-18-2020		ne represent submerged In previous water level

Date Sampled: PID Reading:		Well Loc	ation ID: ne Sampled:	KAFB-106  CAFB-106  Reel ID match Well II	051 Sampling Tear	mpling	Qua Sampl	rear: 2020 rter: 3 e ID: GW051- Beganje	203		
Sampler Num	ber:			Type of Analysis	(circle approp	riate)			Documen	nt in notes	
(shallow to deep		CI.	,						Dup? N	MS/MSD?	
1	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
2	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
3	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
4	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
5	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
6	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			6mm
								Duplica	ate sampl	le requii	red.
PID:	Mini	RAE 3000	Seria	I No: WHOOO6					-		
IDW will be taken	to: <b>GWTS</b>	Pending I	Disposal Area	a				Sample ID:	GW05	1-203	
Notes:								Duplicate ID: (if applicable)	GW05	1-603	
								COC#:	COC-0	051-203	
Reviewed by:	. Messen	30/				9		Review Date:	7-10-20	020	





#### **Groundwater Purge** and Sampling Log

Year: 2020 Quarter: 3 (Jul-Sep) KAFB-106097 Kirtland AFB BFF ST-106/SS-111 Well ID: 7-16-2020 Date: Purge Information and Field Parameter 0.800 Purge Rate: \_\_ Purge Start Time: L/min X 0.265 = gal/min Description of first water purged: 36.45 Drawdown Limit: (based on previous water level) DTW Turbidity Saturated DO Specific ORP Temp. рН Time (ft) (NTU) (°C) DO (mg/L)Conductance (mV) (µS/cm) (%) Stabilization Requirements If >10,±10% ±10% ±10% ±0.5 ±10% Historical 469.59 0.83 22.5 2.46 372 7.24 68.3 470,07 7:30 1.26 21.7 468.7 7.69 351.0 82.1 20,5 470.08 0.42 42.2 396.1 3.78 7.59 353,4 3.14 7.61 470.06 20,1 34.6 351.1 0,48 393.7 0750 0755 470.06 0.46 20.0 33.5 7.62 349.8 3.03 392.6 32.7 2.97 395.6 0800 470.0 0.37 19.9 7.63 349. Sampled 7-16-2020 0802 Sample Time: Sample Date: 6mm 0804 Purge End Time: Bubbles in the vials?: Where? Amount Size Sampled by: Sampler Signature: IDW Management Estimated volume per Drum No. IDW drum (gal) IDW will be taken to: IDW Label: 1 GWTS/Pending 2 Green Non-Disposal Area hazardous Total Comments:

Reviewed by:

Messenger Initials:

Review Date:

7-24-2020

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ft MRP

ft MRP

ft MRP

No

ft MRP

4814



Serial No:

Serial No:

WH0012

Water Level Meter:	Solinst 500 ft	Serial No:
Turbidity Meter:	Hach 2100Q	Serial No:
Sample Informa	ation	
Sample ID:	GW098-203	Sampling Method: Low-flow
Duplicate ID: (if applicable)	GW098-603	Sampling Medium: Water
COC#:	COC-098-203	
Reviewed by:	z.Messensel	Initials: Review Date: 7-24-2020

MiniRAE 3000

Solinst 500 ft

Page 1 of 2

DO, Temperature

PID:



				r Purge		Year:	202	20
		and S	ampli	ng Log		Quarter:	3 (Jul-	
Project: Kirtland	d AFB BFF ST-1	06/SS-111	٧	Vell ID:		KAFB-106	8098	
Purge Information	and Field P	arameter		0.780	Date:	7-15-5	2020	
range etait inner					in X 0.26	5 = 0,206	7 9	jal/min
Description of first wate	er purged:	ear 3	odor	1255	*			
Drawdown Limit:	61.35	ft (based	on previou	us water level)				
Time	DTW (ft)	Turbidity (NTU)	Temp.	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	рН	ORP (mV)
Stabilization Requiremen  Historical		If >10,±10%			±10%	±10%	±0.5	
Data:	469.67	0.52	22.1		3.77	331	7.22	127.6
1425	470.00	1.81	25.2	117.5	9,70	403.5	7.85	739.1
1930	470.00	1.26	22.8	54.2	4.62	453.2	7.77	233, 2
1435	470.00	1.20	22.0	46.1	4.01	448.2	7.79	224.3
1440	470.00	0.98	21.6	40.7	3.59	444.0	7.77	218.3
1445	470.00	1.06	21.6	39.4	3,47	437.7	7.75	213.0
1450	470.00	0.75	21.4	38.3	3.38	435.5	7.75	209.9
		(	2					3
	2	amp						
					$ \checkmark $		v	~
						-		
Sample Time: 14	51		Sam	ple Date:	7-15-	2020		
Purge End Time: 14								6mm
		NI- W/I		EX - I VOF	A	1	C: ~	1.5 mm
Bubbles in the vials?:	-	no whe					_ 512e	110 10(10)
Sampled by:	3	week	Samp	oler Signature:				
IDW Managemen								
Drum No.	timated volume p IDW drum (gal)	oer						
1	12gerl		DW will b	oe taken to:		IDW Label:		
2	2			Pending		Green Non-		
Total			Dispos	sal Area		nazardous		
Comments:								
Reviewed by:	Wessenger	Initials:	An	Review	Date: 7	24-2020	Р	age 2 of



#### Sample Information

Sample ID:

GW099-203

Sampling Method: Low-flow

Duplicate ID:

(if applicable)

GW099-603

Sampling Medium: Water

COC-099-203

Review Date:

7-24-2020

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## Groundwater Purge and Sampling Log

Year: Quarter:

2020 3 (Jul-Sep)

Project: Kirtland AFB BFF ST-106/SS-111 Well ID: KAFB-106099

Purge Information and Field Parameter

Purge Start Time: 1235

Purge Rate: 0.600

L/min X 0.265 = 0.1802

gal/min

Description of first water purged: Clear and odorless

Time	DTW (ft)	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	рН	ORP (mV)
Stabilization Requirements		If >10,±10%	±10%		±10%	±10%	±0.5	
Historical . Data:	464.5	0.8	20.9		5.54	485.3	7.15	93.7
1245	464.86	0.95	23.3	84.0	7.20	372.7	7.69	332.4
1250	464.87	0.95	22,0	69.2	6.02	370.0	7.71	327.9
1255	464.87	1.04	21.5	64.1	5.62	368.5	7.71	324.8
1300	464.87	0.85	21.7	63.0	5.48	368.4	7.70	321.6
1305	464.87	0.69	21.0	61.8	5.59>	372.6	7.71	319.2
			_(	ed				
		Se	mpl		/	,		
					1			
							-	

Sample Time:			Sample Date:	1-16-	1020		
Purge End Time: 1317							6mm
Bubbles in the vials?: Yes	No	Where? _		Amount _		Size _	

Sampler Signature:

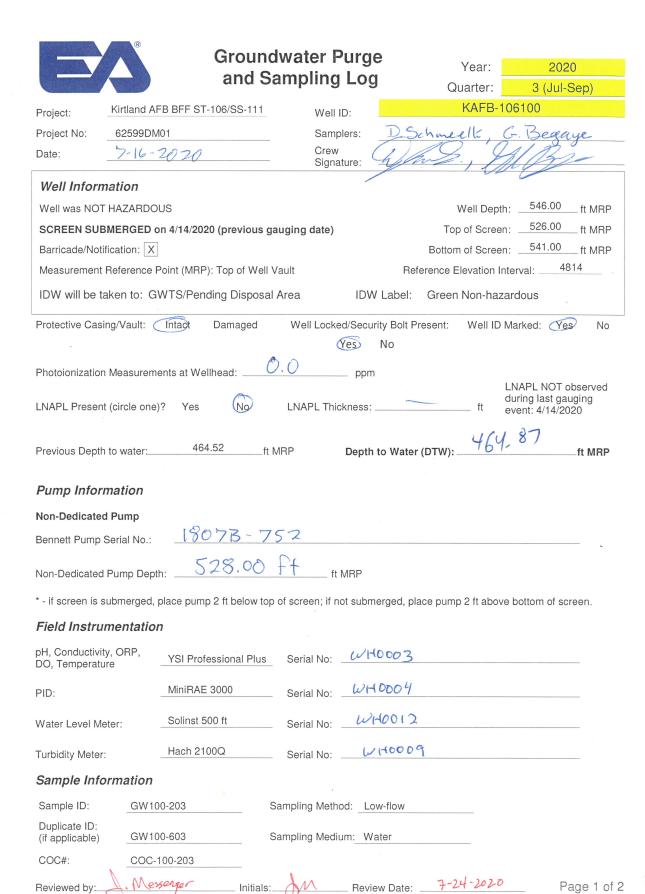
#### IDW Management

Sampled by:

Drum No.	Estimated volume per IDW drum (gal)		
1	12	IDW will be taken to:	IDW Label:
2		GWTS/Pending Disposal Area	Green Non- hazardous
Total		Disposal Alea	Hazardous

Reviewed by: Initials: Review Date: 7-24-202

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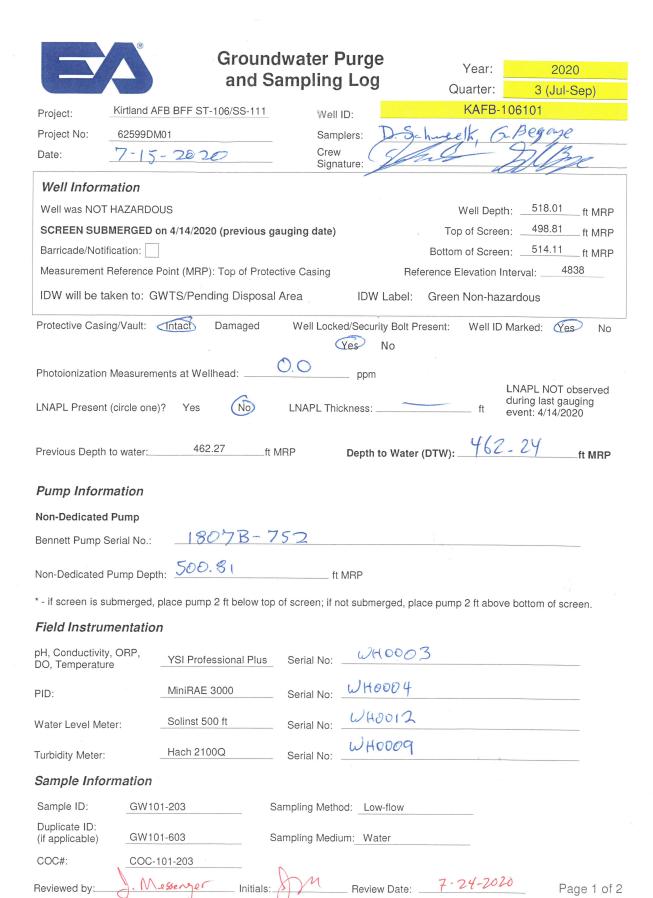
		Year: 2020								
		and S	ampli	ng Log		Quarter:	3 (Jul-	Sep)		
Project: Kirtland A	AFB BFF ST-10	06/SS-111	V	Vell ID:		KAFB-106	6100			
Purge Information and Field Parameter Date: 7-16-2020										
ruige Stait Tille.	)54				in X 0.26	5 = 0,22	79	gal/min		
Description of first water p	ourged:	ear 300	dor les	5						
Drawdown Limit:	7	7		us water level)			·			
Time	DTW (ft)	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	рН	ORP (mV)		
Stabilization Requirements Historical		If >10,±10%			±10%	±10%	±0.5			
Data:	464.52	3.52	16.7		5.6	425.3	7.89	68.3		
1055	464.93	0.96	25.1	88.0	7,27	334.6	8.12	341.7		
1100	464.94	1.02	23.1	5 4.8	4.80	329.8	7.74	346.2		
1105	464.94	0.76	22,6	36.4	3.12	330.9	7.75	337.6		
1) 10	464.95	0.68	22.0	36.5	3.19	329.8	7.74	333.3		
1115	464.93	0.79	22.1	33,9	2.96	331.7	7.74	328.9		
								.,		
			(	4				-		
		Sar	mple							
				01						
				<b>Y</b>						
							3			
				-						
Sample Time: 111	9		Sam	ple Date:	7-16-7	2020				
Purge End Time: 47	12			•				6mm		
Bubbles in the vials?:	Yes	No Whe	re?		Amount _		Size			
	Schneel			. 0'		15	)			
Campiod by:	Jeks Ce .		Samp	oler Signature:						
IDW Management										
	nated volume p DW drum (gal)	er 								
1 /	1 gal	I	DW will b	oe taken to:		IDW Label:				
2	0			Pending		Green Non-				
Total			DISDOS	sal Area		nazardous				
Comments:		annual								

Reviewed by:

Initials:

Review Date:

4-24-2020 Page 2 of 2





# Groundwater Purge and Sampling Log

Year: Quarter: 2020 3 (Jul-Sep)

Project:	Kirtland AFB BFF ST-106/SS-111	Well ID:	KAFB-106101
			7153

Purge Information and Field Parameter

Date:

7-15-2026

Purge Start Time: 0.72 Purge Rate: 0.800 L/min X 0.265 = 0.212 gal/min Description of first water purged: 0.265 = 0.212

Time	DTW (ft)	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	рН	ORP (mV)
Stabilization Requirements Historical		If >10,±10%	±10%		±10%	±10%	±0.5	
Data:	462.27	1.52	15.4		6.85	534.9	7.85	132.2
0725	462-28	0.91	20.2	80.4	7.21	438.7	7.63	335.5
0730	462.28	1.00	19,9	70.7	6.45	436.8	7.66	339.4
0735	462.28	0.95	19,7	68.5	6.24	434.4	7.67	342.5
0740	462.29	0.82	19.7	67.0	6.11	432.4	7.68	345.2
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					,		***************************************	
								-
					V		***************************************	
*								
							······································	
					-		,	
Sample Time:	41		Sami	ole Date:	7-15	2020		
	743		Saiii	Sie Date.				6mm
Purge End Time:	115							**************************************
Bubbles in the vials?:	Yes	No Wher	re?	CAPATRIC SHIPMAN AND AND AND AND AND AND AND AND AND A	Amount _	-0	Size	

IDW Management

Orum No.	Estimated volume per IDW drum (gal)		
1	10 ga/	IDW will be taken to:	IDW Label:
2	,	GWTS/Pending	Green Non-
Total		Disposal Area	hazardous

Comments:

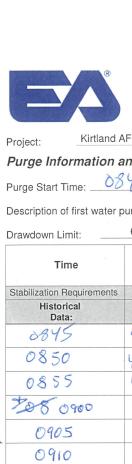
Reviewed by:

s: \_\_\_\_\_\_

Review Date: 7-24

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**Groundwater Purge** 2020 Year: and Sampling Log 3 (Jul-Sep) Quarter: KAFB-106102 Kirtland AFB BFF ST-106/SS-111 Well ID: 7-15-2020 Date: Purge Information and Field Parameter L/min X 0.265 = 0.2014 Purge Rate: gal/min Description of first water purged: 61.57 (based on previous water level) DTW Turbidity Temp. Saturated DO Specific ORP рΗ Conductance (ft) (NTU) (°C) DO (mg/L) (mV) (%) (µS/cm) If >10,±10% ±10% ±10% ±0.5 \_\_\_\_\_ ±10% 462.41 0.92 19.3 4.51 355.3 7.88 142 462.42 1.78 20.8 9.29 322.5 103.3 7.77 76.0 324.0 20.3 7.80 462.42 1.15 6.60 324.3 462.43 1.33 20.1 55,5 5.04 7.80 325.3 462.43 0.95 46,2 ファフタ 20.2 4,17 349.6 325,5 462.43 1.06 20.0 41.0 7.79 346.6 462.43 0.84 3.43 326.3 7,79 20.1 342,7 37.8 0.80 36,5 0915 462.43 20. ( 3.31 326,5 7.78 340.3 462.43 0920 35.8 0.93 20.1 3,23 327.0 7.78 337.9 7-15-2020 0921 Sample Time: Sample Date: 0923 6mm Purge End Time: Bubbles in the vials?: Where? Amount Size Sampled by: Sampler Signature: IDW Management Estimated volume per Drum No. IDW drum (gal) 1 IDW will be taken to: IDW Label: gei 2 GWTS/Pending Green Non-Disposal Area hazardous Total Comments: M Review Date:

Reviewed by:

Messenger Initials: 7-24-2020

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Well Location ID:

KAFB-106149-484

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW149-484-203

Well Information	Well Depth:	484.00 ft MRP
Screen Interval Length (ft): 130	Top of Screen:	354.00 ft MRP
Previous Depth to Water (MRP): 468.22 (Gauged on 4/16/2020) LNAPL NOT detected during prior gauging	Bottom of Screen:	484.00 ft MRP
Length of Screen not submerged (ft): 114.22 **** (Water level <5ft above top of screen or screen not submerged)		
Deployment Team: Dylan Schmeell, Galvefur Begune	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed:	10	453.80
PID: MiniRAE 3000 Serial No: WH 6 006	11 12	456.40
Water Level Meter: Solinst 500 ft Serial No: 253056	13	459.00 461.60
PID Reading:   Ppm  QC sample notes. (If blank, no QC samples required):  Analyte(s): - Alkalinity	14 15	464.20 466.80
Depth to Water: 468-75 - Anions - Dissolved Metals  Measure Water Level - EDB	16 Barr	ved 472.00
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed  - NO3/NO2-N  - Total Metals	19 20	474.60 477.20 479.80
Notes: ADD DMS PROTECTIVE SLEEVES		
Surveyed by High Mesa January 2018  Deployed extra bag	_	
Reviewed by: Review Date: 6-22-20		lue represent submerged nn previous water level



Well Location ID: KAFB-106149-484 Sampling Quarter: 3

Type of Analysis (circle appropriate)

Sample ID: GW149-484-203

Year: 2020

Date Sampled: 7-10-200 Time Sampled: 09/0 Sampling Team: D. Schweek, G. Begaye

PID Reading: O.O DMS Tether and Reel ID match Well ID?

ch Well ID? \_\_\_\_\_\_\_ Initial to confirm that ID check was completed

#### Document in notes Sampler Number: (shallow to deep) Dup? MS/MSD? Choose only one EDB VOCs BTEX (N) Metals (Dissolved) Metals (Total) Nitrate / Nitrite Alkalinity Anions EDB VOCs BTEX (N) Metals (Dissolved) Metals (Total) Alkalinity Anions Nitrate / Nitrite EDB VOCs BTEX (N) Metals (Dissolved) Metals (Total) Alkalinity Anions Nitrate / Nitrite 4 **EDB** VOCs BTEX (N) Metals (Dissolved) Metals (Total) Alkalinity Anions Nitrate / Nitrite EDB VOCs BTEX (N) Metals (Dissolved) Metals (Total) Alkalinity Anions Nitrate / Nitrite **EDB** VOCs BTEX (N) Metals (Dissolved) Metals (Total) Alkalinity Anions Nitrate / Nitrite 6mm

PID:	. MiniRAE 3000	Serial No: WHOO	05			•
0-550 W	HISTORICAL SAMPLER	FAIL-PULL UP GEN		was not sampled,	COC#:	GW149-484-203 GW149-484-603 COC-149-484-203 7-24-2020
		See Pictures	md, and protector was	bent (Bag #1 did not	deploy with	ileeve),

Kirtland AFB BFF Quarterly Report - July-September 2020 SWMUs ST-106/SS-111



Well Location ID:

KAFB-106151-484

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW151-484-203

Well Information		Well Depth:	184.19 ft MRP
Screen Interval Length (ft): 129	Т	op of Screen:	855.19 ft MRP
Previous Depth to Water (MRP): 468.01 (Gauged on 4/16/2020) LNAPL NOT detected during	ng prior gauging Botto	om of Screen:	184.19 ft MRP
Length of Screen not submerged (ft): 112.82 **** (Water level <5ft above top of screen or screen	n not submerged)		
Deployment Team: D. Schmeelk, G. Begange		ampler umber:	Top of Sampler Depth (MRP)
Date Deployed: 6-18-2020 Time Deployed: 0948		10	453.99
	7	11	456.59
PID: MiniRAE 3000 Serial No: WHOOO 6		12	459.19
Water Level Meter: Solinst 500 ft Serial No: 253056		13	461.79
QC sample notes.	alyte(s):	14	464.39
PID Reading: npm (If blank, no QC samples required):	kalinity	15	466.99
	ions	16	469.59
	ssolved Metals	17	472.19
Measure Water Level - ED	- 8	18	474.79
	D3/NO2-N tal Metals	19	477.39
Initial to confirm that ID check was completed	tai ivietais	20	479.99
Notes:			
Surveyed by High Mesa January 2018			
Reviewed by: Review Date: 6-22-20		pths highlighted blue i samplers based on p	

	®	Passiv	e Diffus	ion Water San	npling Dat	a Sheet		ear: 2020		
		Well Loc	ation ID:	KAFB-10615	<u>Sa</u>	ampling		rter: 3 e ID: GW151-	484-203	
Date Sampled: 7-10-2020 Time Sampled: Sampling Team: D. Schweelk & G. Beggy										
PID Reading: DMS Tether and Reel ID match Well ID? Initial to confirm that ID check was completed										
Sampler Num	nber:			Type of Analysis	(circle approp	oriate)			Document i	n notes
(shallow to dee		Choose	only one						Dup? MS	S/MSD?
1	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
2	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
3	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
4	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
5	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
6	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		6mm
PID:		liniRAE 3000	Seria	al No: <u>WH0005</u>						
IDW will be taker	n to: 90-d	ay Hazardou	ie Wasto Aro	na .				Sample ID:	GW151-	-484-203
	110. 90-0	ay Hazardou	S Waste Ale	·u				Duplicate ID: (if applicable)	GW151-	-484-603
Notes:								COC#:	COC-15	1-484-203
Reviewed by:	. Messenge							- Review Date:	7-24-202	8



Well Location ID:

KAFB-106152-484

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW152-484-203

Well Information		Well Depth: _	484.28 ft MRP
Screen Interval Length (ft): 129		Top of Screen: _	355.28 ft MRP
Previous Depth to Water (MRP): 469.79 (Gauged on 4/16/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	484.28 ft MRP
Length of Screen not submerged (ft): 114.51 **** (Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: Dylan Schneelk Galveston Begange		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-18-2020 Time Deployed: 1035		10	454.08
		11	456.68
PID: MiniRAE 3000 Serial No: WHOOO6	7	12	459.28
Water Level Meter: Solinst 500 ft Serial No: 2530576		13	461.88
QC sample notes.	Analyte(s):	14	464.48
PID Reading: ppm (If blank, no QC samples required):	- Alkalinity	15	467.08
GB - Wallet	- Anions	16 🗸	469.68
Depth to Water: 467,85	- Dissolved Metals	17	472.28
Measure Water Level	- EDB	18	474.88
DMS Tether and Reel ID match Well ID?	- NO3/NO2-N - Total Metals	19	477.48
Initial to confirm that ID check was completed	Total Metals	20	480.08
Notes:			
Surveyed by High Mesa January 2018			
Reviewed by: Review Date: Besiew Date:			e represent submerged previous water level





Well Location ID:

KAFB-106153-484

Deployment

Year: 2020

Quarter: 3

Sample ID: GW153-484-203

Well Information			Well Depth:	
Screen Interval Length (ft): 129			Top of Screen:	355.29 ft MRP
Previous Depth to Water (MRP): 471.22 (Gauged o	n 4/16/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	484.29 ft MRP
Length of Screen not submerged (ft): 115.93 ****	Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: D. Schweelk, G. Be	genje		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-18-2020 Time D	Deployed: 1133		10	454.09
			11	456.69
PID: MiniRAE 3000 Serial No:	WH0006		12	459.29
Water Level Meter: Solinst 500 ft Serial No:	256053 25305	6	13	461.89
1	QC sample notes.	Analyto(a)	14	464.49
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s): - Alkalinity	15	467.09
1/2: 20		- Anions	16 😾	469.69
Depth to Water: 471.28		- Dissolved Metals	17	472.29
Measure Water Level		- EDB	18	474.89
DMS Tether and Reel ID match Well ID?		- NO3/NO2-N - Total Metals	19	477.49
Initial to confirm that ID check was completed		rotal Wetals	20	480.09
Notes:		,	]	
Surveyed by High Mesa January 2018				
Reviewed by: . Messenge	Review Date: 6 - 22 - 20			ue represent submerged n previous water level





Well Location ID: KAFB-106201

**Deployment** 

Year: 2020 Quarter: 3

Sample ID: GW201-203

Well Information			Well Depth: _	524.65 ft MRP
Screen Interval Length (ft): 30			Top of Screen: _	489.65 ft MRP
Previous Depth to Water (MRP): 479.55 (Gauged on 4/16/	2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	519.65 ft MRP
Length of Screen not submerged (ft): -10.10				
Deployment Team: Dr. Schneek,			Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2020 Time Deployed	ed: 0714		1	490.35
			2	492.95
PID: MiniRAE 3000 Serial No: WHO	009		3	495.55
Water Level Meter: Solinst 500 ft Serial No:			4	498.15
OC sa	mple notes.	A malista (a)	5	500.75
	nk, no QC samples required):	Analyte(s): - EDB	6	503.35
		- LDB	7	505.95
Depth to Water:			8	508.55
			9	511.15
DMS Tether and Reel ID match Well ID?			10	513.75
Initial to confirm that ID check was completed				
Natara				
Notes:				
Reviewed by: Review	Date: 6-18-2020			e represent submerged previous water level

Passive Diffusion Water Sampling Data Sheet  Well Location ID: KAFB-106201  Date Sampled: 7-9-1020  Time Sampled: 1(19)  DMS Tether and Reel ID match Well ID?  Type of Analysis (circle appropriate)  Year: 2020  Quarter: 3  Sample ID: GW201-2  PID Reading: DMS Tether and Reel ID match Well ID?  Type of Analysis (circle appropriate)									203	
Sampler Num				Type of Allalysis	(Circle approp	mate)				nt in notes MS/MSD?
(shallow to deep	0)	Choose	e only one						Dup:	WIS/WISD:
1	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
2	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
3	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
4	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
5	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
6	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		6mm
PID:	PID: MiniRAE 3000 Serial No: WHOOG									
IDW will be taken	to: <b>GWTS</b> /	Pendina I	Disposal Area	a				Sample ID:	GW2	01-203
Notes:								Duplicate ID: (if applicable)		01-603
								COC#:		201-203
Reviewed by:	.Messeng	er						Review Date:	7-10-	2020

Kirtland AFB BFF Quarterly Report - July-September 2020 SWMUs ST-106/SS-111



Well Location ID: KAFB-106202

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW202-203

Well Information			Well Depth: _	539.90 ft MRP
Screen Interval Length (ft): 15			Top of Screen: _	519.90 ft MRP
Previous Depth to Water (MRP): 480.58 (Gauged of	on 4/16/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	534.90 ft MRP
Length of Screen not submerged (ft): -39.31				
Deployment Team: D. Schweelk G.	Regaye	*	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2020 Time	Deployed: 0721			520.60
PID: MiniRAE 3000 Serial No:	WHOOD4		3	523.20 525.80
Water Level Meter: Solinst 500 ft Serial No:			4	528.40
PID Reading: ppm  Depth to Water:	QC sample notes. (If blank, no QC samples required):	Analyte(s): - EDB	5	531.00
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed		,		
Notes:				
Reviewed by:	Review Date: 6-18-2020			ne represent submerged on previous water level



Year: 2020

		Well Loc	ation ID:	KAFB-106	202 Sa	mpling		rter: 3 e ID: GW202	-203	
Date Sampled:	7-9-20	<b>⊘</b> Tim	ne Sampled:	1136	Sampling Tear	n: D. Schne	ells, G.	Begaye		
PID Reading:	0.0	DM	S Tether and	Reel ID match Well II	0?	Initial to confirm th was completed	at ID check	•		
Sampler Num				Type of Analysis	(circle approp	riate)			Document in note Dup? MS/MSD	
(	· ·	Choose	e only one							
1	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
2	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
3	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
4	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
5	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
6	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		6mm
PID:	Min	iRAE 3000	Serial	1 No: WHOOOG						
IDW will be taken	to: CWTS	'/Ponding I	Diamonal Area					Sample ID:	GW202-203	7
	io. GWIS	renaing i	Disposal Area	ı				Duplicate ID: (if applicable)	GW202-603	
Notes:								COC#:	COC-202-203	
Beviewed by:	. Messen	ger		-		,		Review Date:	7-10-2020	

Kirtland AFB BFF Quarterly Report - July-September 2020 SWMUs ST-106/SS-111 December 2020



KAFB-106203

Well Location ID:

**Deployment** 

Year: 2020 Quarter: 3

Sample ID: GW203-203

Well Information			Well Depth:	643.08 ft MRP
Screen Interval Length (ft): 15			Top of Screen:	623.08 ft MRP
Previous Depth to Water (MRP): 481.01 (Gauged of	on 4/16/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	638.08 ft MRP
Length of Screen not submerged (ft): -142.07				
Deployment Team: D. Schweelk, G. R.	Segage		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2020 Time	Deployed: 0728			623.78
PID: MiniRAE 3000 Serial No:	WILLSON		(2)	626.38
PID: MiniRAE 3000 Serial No:	WHOOT		3	628.98
Water Level Meter: Solinst 500 ft Serial No:			4	631.58
PID Reading: ppm	QC sample notes. (If blank, no QC samples required):	Analyte(s): - EDB	5	634.18
Depth to Water:				
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed				
Notes:				
Reviewed by: Messenger	Review Date: 6-18-2020			ue represent submerged n previous water level





Well Location ID:

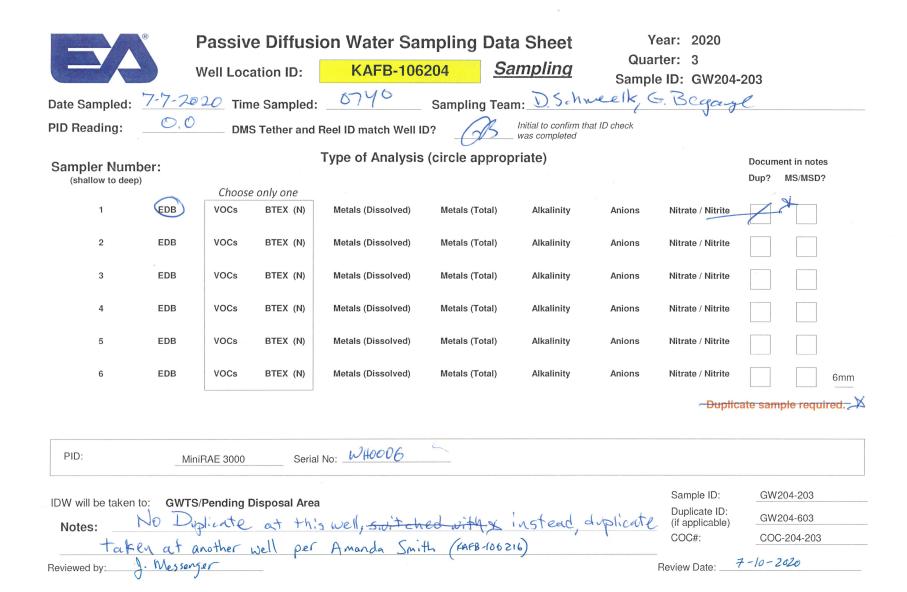
KAFB-106204

**Deployment** 

Year: 2020 Quarter: 3

Sample ID: GW204-203

Well Information			Well Depth:	497.50 ft MRP
Screen Interval Length (ft): 30			Top of Screen:	462.50 ft MRP
Previous Depth to Water (MRP): 454.10 (Gauged of	on 4/14/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	492.50 ft MRP
Length of Screen not submerged (ft): -8.40				-
Deployment Team: D. Schweelk G. Be Date Deployed: 6-16-2020 Time	egaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time	Deployed: 2806 092	3	$\widehat{\mathcal{O}}$	463.20
PID: MiniBAE 0000 On inthi	WH0006		(2)	465.80
PID: MiniRAE 3000 Serial No:	WHOODS		3	468.40
Water Level Meter: Solinst 500 ft Serial No:			4	471.00
· · · · · · · · · · · · · · · · · · ·	QC sample notes.	Analysta (a)	5	473.60
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s):	6	476.20
		- 100	7	478.80
Depth to Water:	Duplicate sample required. Please		8	481.40
	deploy extra DMS as needed		9	484.00
DMS Tether and Reel ID match Well ID?	4.	, , , ,	10	486.60
Initial to confirm that ID check was completed				
check was completed				
Notes:		1		
Reviewed by: Messenger	Review Date: 6-18-2020			ue represent submerged n previous water level





Well Location ID:

KAFB-106205

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW205-203

Well Information			Well Depth: _	512.50 ft MRP
Screen Interval Length (ft): 15			Top of Screen: _	492.50 ft MRP
Previous Depth to Water (MRP): 454.47 (Gauged of	on 4/14/2020) LNAPL NOT detected d	uring prior gauging	Bottom of Screen: _	507.50 ft MRP
Length of Screen not submerged (ft): -38.03				
Deployment Team: DSchulek, G	Begange		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: <u>6-16-2020</u> Time	Deployed: 0909			493.20
	WH0006		(2)	495.80
PID: MiniRAE 3000 Serial No:	ce nocoe		3	498.40
Water Level Meter: Solinst 500 ft Serial No:	and the second s		4	501.00
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s): - EDB	5	503.60
Depth to Water:				
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed				
Notes:				
Reviewed by: Massenger	Review Date: 6-18-2020	_		e represent submerged previous water level

	®	Passiv	e Diffus	ion Water Saı	mpling Data	a Sheet		ear: 2020			
		Well Loc	ation ID:	KAFB-106	205 <u>Sa</u>	mpling		rter: 3 e ID: GW205-	203		
Date Sampled:	7-7-2	020 Tim	ne Sampled:	0720	Sampling Tear	n: D. Sch,	-	5-Begay			
PID Reading:	0.0	DM:	S Tether and	Reel ID match Well II	D? (1)	Initial to confirm th was completed	at ID check	·			
Sampler Num	nber:			Type of Analysis	(circle approp	riate)			Docum	ent in note	es
(shallow to dee		Choose	e only one						Dup?	MS/MSD	?
1	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
2	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
3	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
4	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
5	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
6	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			6mm
				2							
PID:	N	liniRAE 3000	Seria	INO: WHOOO 6							
IDW will be taker	nto: GWI	[S/Pending [	Disposal Area					Sample ID:	GW	205-203	*
Notes:	110. 0111	on chaing i	Jisposai Area	A				Duplicate ID: (if applicable)	GW	205-603	
Notes.								COC#:	COC	C-205-203	
Reviewed by:	. Messen	ger						Review Date:	2-10-2	020	



Well Location ID:

KAFB-106206

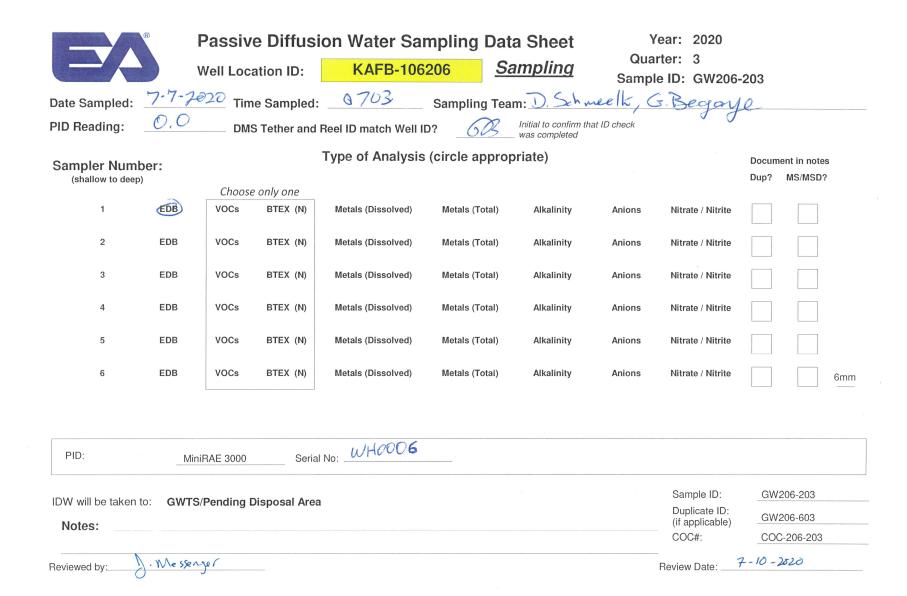
**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW206-203

Well Information	Well Depth:	613.20 ft MRP
Screen Interval Length (ft): 15	Top of Screen:	593.50 ft MRP
Previous Depth to Water (MRP): 454.61 (Gauged on 4/14/2020) LNAPL NOT detected during prior gauging	Bottom of Screen:	608.20 ft MRP
Length of Screen not submerged (ft): -138.89		
Deployment Team: D. Schweelk, G. Bogaye	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time Deployed: 0843	1	594.20
	2	596.80
PID: MiniRAE 3000 Serial No: WHOODE	3	599.40
Water Level Meter: Solinst 500 ft Serial No:	4	602.00
PID Reading: ppm	5	604.60
Depth to Water:		
DMS Tether and Reel ID match Well ID?		
Initial to confirm that ID check was completed		
Notes:		
Reviewed by: Review Date: 6-18-2020		ne represent submerged n previous water level





Well Location ID:

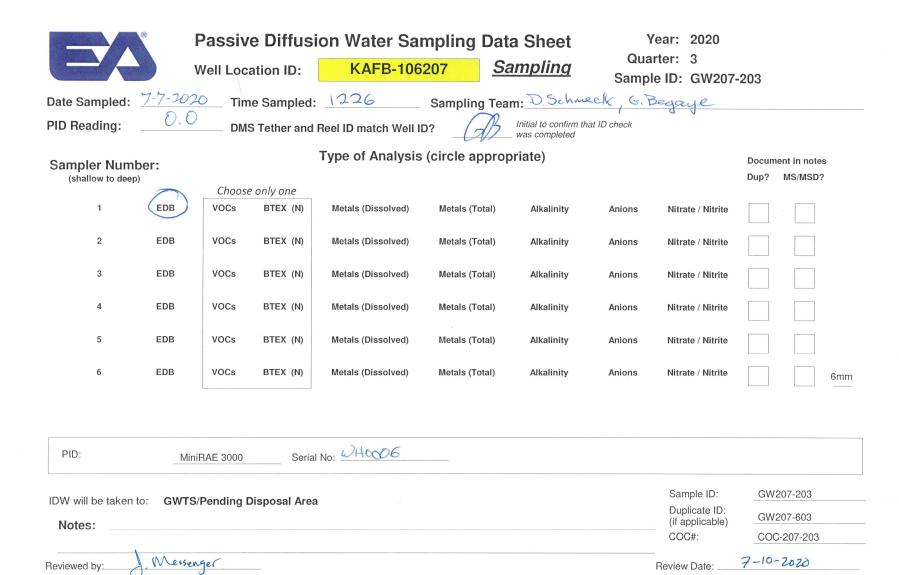
KAFB-106207

**Deployment** 

Year: 2020 Quarter: 3

Sample ID: GW207-203

Well Information			Well Depth:	508.00 ft MRP
Screen Interval Length (ft): 30			Top of Screen:	473.00 ft MRP
Previous Depth to Water (MRP): 464.85 (Gauged	on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	503.00 ft MRP
Length of Screen not submerged (ft): -8.15			·	
Deployment Team: D. Schweelk, G.B	egaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time	Deployed: 0949		$\bigcirc$	473.70
	WH0006		2	476.30
PID: MiniRAE 3000 Serial No:	W10506	~	3	478.90
Water Level Meter: Solinst 500 ft Serial No:			4	481.50
<u></u>	QC sample notes.	1	5	484.10
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s):	6	486.70
		- LDB	7	489.30
Depth to Water:	)		8	491.90
			9	494.50
DMS Tether and Reel ID match Well ID?			10	497.10
Initial to confirm that ID				
check was completed				
Notes:				
Reviewed by:  Messenger	Review Date: 6-18-2020			ue represent submerged
Reviewed by:	Review Date: 6-18-2020			ue represent submergeo n previous water level





Well Location ID:

KAFB-106208

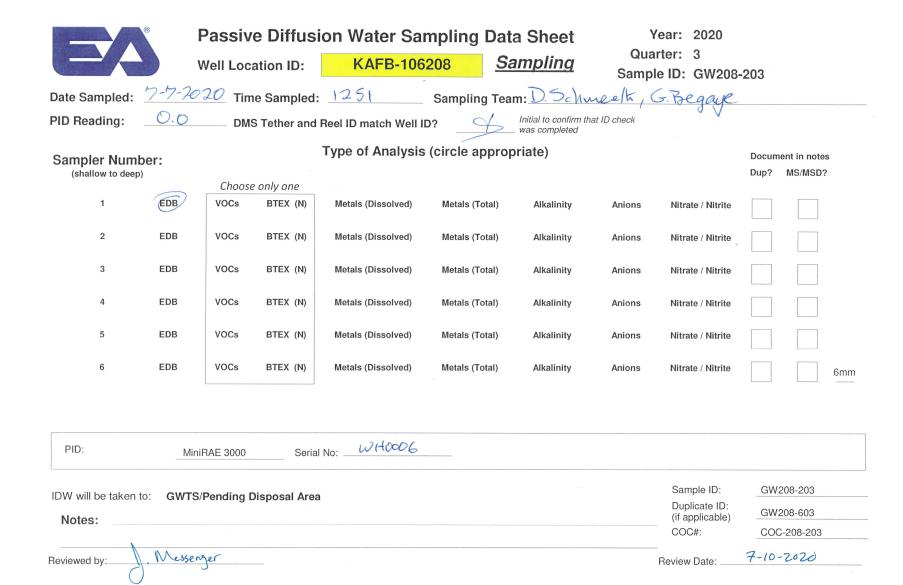
**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW208-203

Well Information			Well Depth:	523.00 ft MRP
Screen Interval Length (ft): 15			Top of Screen:	503.00 ft MRP
Previous Depth to Water (MRP): 464.56 (Gauged	on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	518.00 ft MRP
Length of Screen not submerged (ft): -38.44			*	7
Deployment Team: D.Schmeelk, G. B	egaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: <u>6-16-2020</u> Time	Deployed: 1900		1	503.70
	WH0006		2	506.30
PID: MiniRAE 3000 Serial No:			3	508.90
Water Level Meter: Solinst 500 ft Serial No:			4	511.50
water Level Meter. Solinst 300 it Serial No.		1	5	514.10
PID Reading: ppm	QC sample notes. (If blank, no QC samples required):	Analyte(s): - EDB		
Depth to Water:				
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed				
Notes:				
Reviewed by: Messenger	Review Date: 6 -18-2020			ue represent submerged n previous water level





Well Location ID:

KAFB-106209

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW209-203

Well Information	Well Depth:	622.00 ft MRP
Screen Interval Length (ft): 14	Top of Screen:	603.00 ft MRP
Previous Depth to Water (MRP): 463.90 (Gauged on 4/15/2020) LNAPL NOT detected during prior gauging	Bottom of Screen:	617.00 ft MRP
Length of Screen not submerged (ft): -139.10		
Deployment Team: D. Schneelk, G. Beggye	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time Deployed: 1011	<b>1</b>	603.70
PID: MiniRAE 3000 Serial No: WHOOOG	2	606.30
MINIMAE 3000 Serial No	3	608.90
Water Level Meter: Solinst 500 ft Serial No:	4	611.50
QC sample notes.  (If blank no QC complex required):  Analyte(s):	5	614.10
PID Reading: ppm (If blank, no QC samples required): EDB		
Depth to Water:		
DMS Tether and Reel ID match Well ID?		
check was completed		
Notes:		
Reviewed by: Review Date: 6-18-2020		ue represent submerged in previous water level





Well Location ID:

KAFB-106216

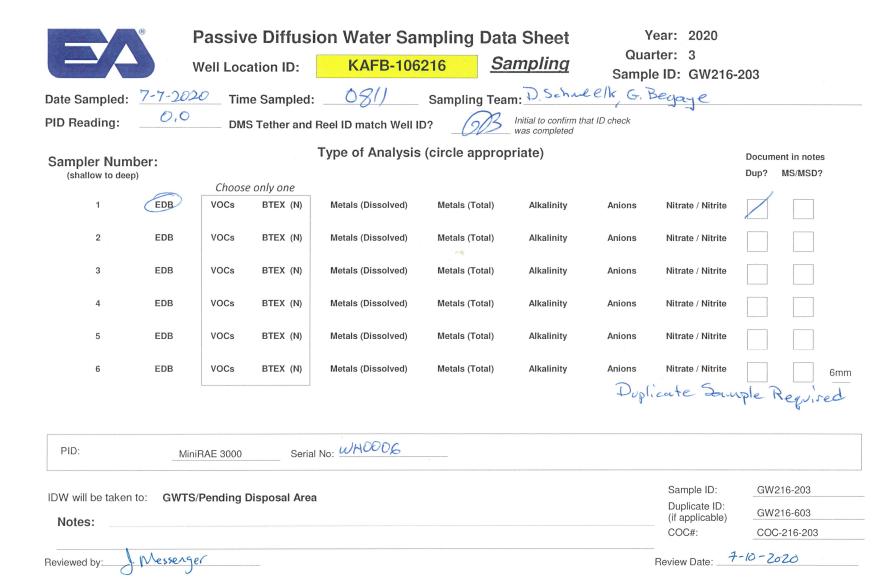
**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW216-203

Well Information			Well Depth: _	490.50 ft MRP
Screen Interval Length (ft): 30			Top of Screen:	455.50 ft MRP
Previous Depth to Water (MRP): 456.00 (Gauged of	on 4/14/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	485.50 ft MRP
Length of Screen not submerged (ft): 0.50 ****	(Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: Dischmeelk, G. Be	gaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time	Deployed: 1055		₹ 1 ▽	456.20
PID: MiniRAE 3000 Serial No:	WH0006		3	458.80 461.40
Water Level Meter: _Solinst 500 ft Serial No: _	WH0012		4	464.00
D.O	QC sample notes.	Analyte(s):	5	466.60
PID Reading: ppm	(If blank, no QC samples required):	- EDB	6	469.20
Depth to Water: 456, 53		, · · · · · · · · · · · · · · · · · · ·	7	471.80
	*		8	474.40
Measure Water Level			9	477.00
DMS Tether and Reel ID match Well ID?			10	479.60
check was completed				
Notes:				
			-,	
Reviewed by:	Review Date: 6-18-2020		Depths highlighted blue samplers based on	e represent submerged previous water level





Year: 2020 Quarter: 3

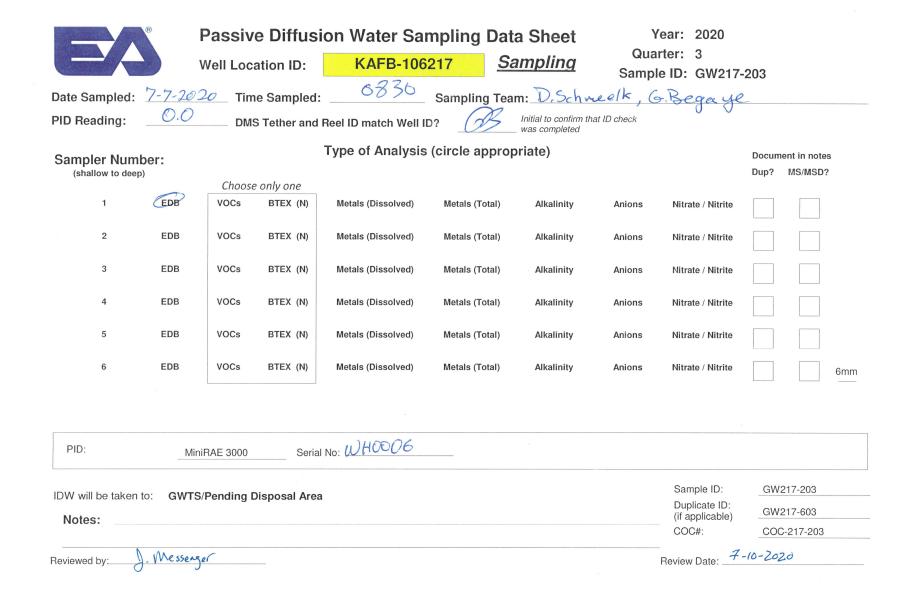
Well Location ID:

KAFB-106217

Deployment Quarter:

Sample ID: GW217-203

Well Information			Well Depth:	505.00 ft MRP
Screen Interval Length (ft): 15			Top of Screen:	485.00 ft MRP
Previous Depth to Water (MRP): 455.90 (Gauged of	on 4/14/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	500.00 ft MRP
Length of Screen not submerged (ft): -29.10				
Deployment Team: D. Schweck, G. R	segaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time	Deployed: 0746		(1)	485.70
			(2)	488.30
PID: MiniRAE 3000 Serial No:	WH0006		3	490.90
Water Level Meter: Solinst 500 ft Serial No:			4	493.50
	QC sample notes.	Analyta(a)	5	496.10
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s): - EDB	CONTRACTOR AND A STATE OF THE S	
Depth to Water:				
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed				
Notes:		1		
Reviewed by:	Review Date: 6-18-7020			ue represent submerged n previous water level





Year: 2020 Quarter: 3

Well Location ID:

KAFB-106218

<u>Deployment</u> Quarter:

Sample ID: GW218-203

Well Information	Well Depth:	572.45 ft MRP
Screen Interval Length (ft): 15	Top of Screen:	552.00 ft MRP
Previous Depth to Water (MRP): 456.05 (Gauged on 4/14/2020) LNAPL NOT detected during prior gauging	Bottom of Screen:	567.00 ft MRP
Length of Screen not submerged (ft): -95.95		
Deployment Team: D. Schweelt, G. Begaye	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time Deployed: 0733	1	552.70
	2	555.30
PID: MiniRAE 3000 Serial No: WHOOO6	3	557.90
Water Level Meter: Solinst 500 ft Serial No:	4	560.50
PID Reading:ppm QC sample notes.  (If blank, no QC samples required): Analyte(s): - EDB	5	563.10
Depth to Water:		
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed		
Notes:		
Reviewed by: Review Date: 6-18-2020		ne represent submerged n previous water level

	®	· accive binacion water camping bata chect					Year: 2020		
		Well Loc	ation ID:	KAFB-106	218 <i>Sa</i>	mpling		ter: 3 e ID: GW218-	203
Date Sampled:	7-7-20	20_ Tim	e Sampled	0848	Sampling Tear	m: D. Schi		5. Begay	
PID Reading:	0.0	DM:	S Tether and	Reel ID match Well II	0?	Initial to confirm th was completed	at ID check	, 0	
Sampler Num				Type of Analysis	(circle approp	riate)			Document in notes  Dup? MS/MSD?
(Shahow to dee)	Ρ)	Choose	only one						
1	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
2	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
3	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
4	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
5	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
6	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	6mm
PID:	Mi	niRAE 3000	Seria	al No: WHOOO 6					
IDW will be taken	to: GWT	S/Pending I	Disposal Are	a				Sample ID:	GW218-203
	awi	on chang t	J.JpoJai Ale	<b></b>				Duplicate ID: (if applicable)	GW218-603
Notes:								COC#:	COC-218-203
Reviewed by:	. Messen	ser						Review Date:	7-10-2020



Well Location ID:

KAFB-106222

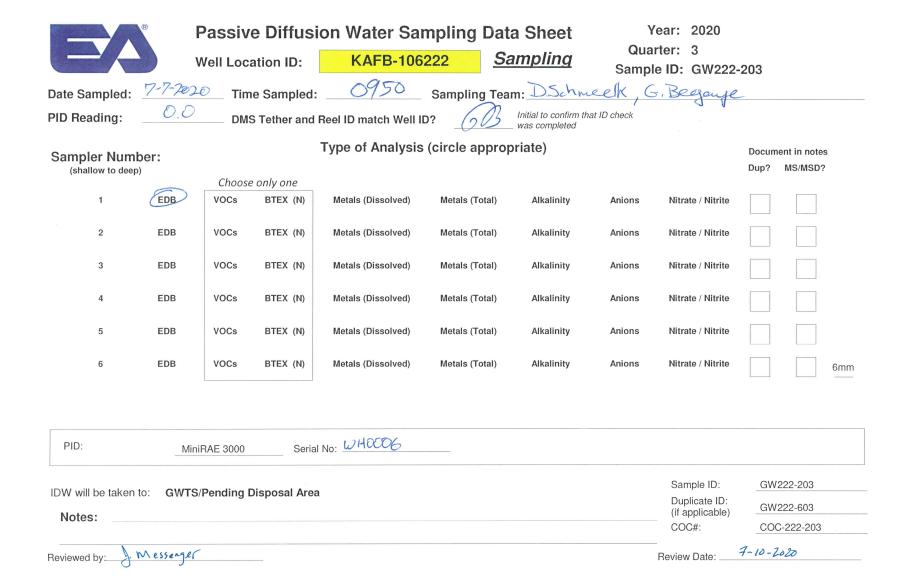
**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW222-203

Well Information			Well Depth: _	493.20 ft MRP
Screen Interval Length (ft): 30			Top of Screen: _	457.80 ft MRP
Previous Depth to Water (MRP): 454.87 (Gauged of	on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	487.80 ft MRP
Length of Screen not submerged (ft): -2.93 ****	(Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: D. Schwellk, G. Beg	aye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time	Deployed: 1121	·		458.50
DID MILITARY AND A COLUMN	1248806		2	461.10
PID: MiniRAE 3000 Serial No:	WH0006		3	463.70
Water Level Meter: Solinst 500 ft Serial No:	WHOOIZ		4	466.30
0.0	QC sample notes.	A = al. (a).	5	468.90
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s): - EDB	6	471.50
Denth to Water: YSS.61			7	474.10
boptii to water.			8	476.70
Measure Water Level		,	9	479.30
DMS Tether and Reel ID match Well ID?			10	481.90
Initial to confirm that ID check was completed				
Check was completed				
Notes:	,	1		
Reviewed by: . Messenger	Review Date: 6-18-2020		Depths highlighted blue samplers based on	e represent submerged previous water level





Year: 2020 Quarter: 3

Well Location ID:

KAFB-106223

**Deployment** 

Sample ID: GW223-203

Well Information			Well Depth: _	508.00 ft MRP
Screen Interval Length (ft): 15			Top of Screen: _	487.80 ft MRP
Previous Depth to Water (MRP): 455.46 (Gauged of	during prior gauging	Bottom of Screen: _	502.80 ft MRP	
Length of Screen not submerged (ft): -32.34				
Deployment Team: D. Schweek, G. Bee	gaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time	Deployed: <u>0866</u> 080	12	1	488.50 491.10
PID: MiniRAE 3000 Serial No:	WH0006		3	493.70
Water Level Meter: Solinst 500 ft Serial No:			4	496.30
PID Reading: ppm	QC sample notes. (If blank, no QC samples required):	Analyte(s): - EDB	5	498.90
Depth to Water:				
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed				
Notes:		1		
Reviewed by: Massenger	Review Date: 6 -18-2020			ne represent submerged n previous water level





3-106224 Deployment Quarter: 3

Well Location ID: KAFB-106224 Deploy

Sample ID: GW224-203

Year: 2020

Well Information	Well Depth:	575.50 ft MRP
Screen Interval Length (ft): 15	Top of Screen:	555.00 ft MRP
Previous Depth to Water (MRP): 456.61 (Gauged on 4/15/2020) LNAPL NOT detected during prior gauging	Bottom of Screen:	570.00 ft MRP
Length of Screen not submerged (ft): -98.39	,	
Deployment Team: D. Schweells, G. Begage	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-16-2020 Time Deployed: 0745 0754	1	555.70
2/2004	2	558.30
PID: MiniRAE 3000 Serial No: WHOOG	3	560.90
Water Level Meter: Solinst 500 ft Serial No:	4	563.50
PID Reading:ppm	5	566.10
Depth to Water:		
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed		
Notes:		
Reviewed by: Review Date: 6-18-7620		ue represent submerged n previous water level





Well Location ID: KAFB-106230

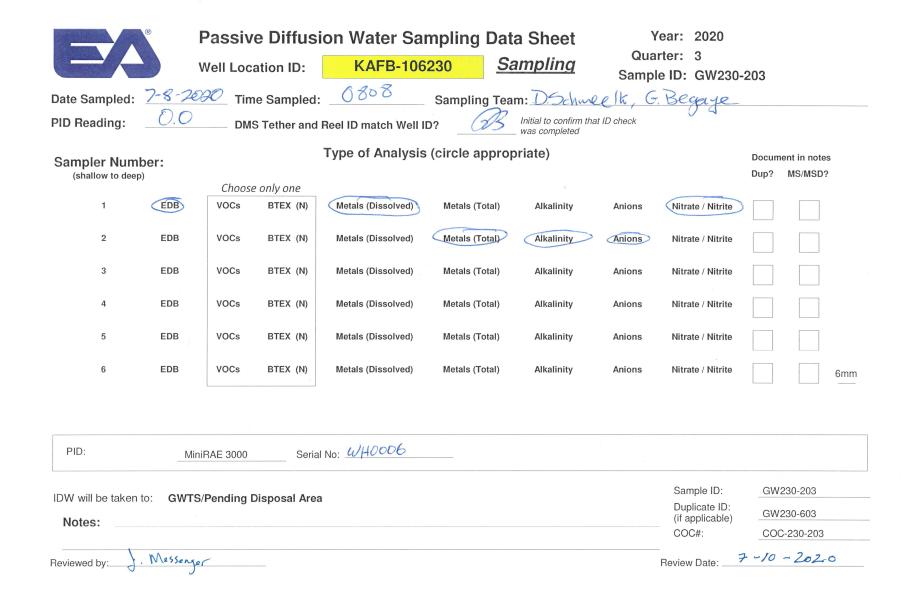
**Deployment** 

Year: 2020 Quarter: 3

Sample ID: GW230-203

Well Information			Well Depth:	521.00 ft MRP
Screen Interval Length (ft): 15			Top of Screen:	501.00 ft MRP
Previous Depth to Water (MRP): 446.08 (Gauged	on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	516.00 ft MRP
Length of Screen not submerged (ft): -54.92				
Deployment Team: D. Schneelk, G. Be	eage		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2020 Time	Deployed: 0818			501.70
PID: MiniRAE 3000 Serial No:	WH0004		(Z)	504.30 506.90
Water Level Meter: Solinst 500 ft Serial No:			4	509.50
PID Reading: ppm  Depth to Water:  DMS Tether and Reel ID match Well ID?	QC sample notes. (If blank, no QC samples required):	Analyte(s):  - Alkalinity  - Anions  - Dissolved Metals  - EDB  - NO3/NO2-N  - Total Metals	5	512.10
Initial to confirm that ID check was completed  Notes:				
Reviewed by: . Messenge	Review Date: 6 -18 - 2020			ue represent submerged n previous water level

Kirtland AFB BFF Quarterly Report - July-September 2020 SWMUs ST-106/SS-111 December 2020





Well Location ID:

KAFB-106231 Deployment

Year: 2020

Quarter: 3

Sample ID: GW231-203

Well Information	*		Well Depth:	480.00 ft MRP
Screen Interval Length (ft): 35			Top of Screen: _	440.00 ft MRP
Previous Depth to Water (MRP): 448.66 (Gauged on 4/14	during prior gauging	Bottom of Screen:	475.00 ft MRP	
Length of Screen not submerged (ft): 8.66 **** (Water	r level <5ft above top of screen or s	screen not submerged)		
Deployment Team: D. Schneelk, G. Be	gangle		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-15-20 Time Deploy	yed: <u>1344</u>	* · · · · ·	1	440.70
	0004		2	443.30
PID: MiniRAE 3000 Serial No: WH			3	445.90
Water Level Meter: Solinst 500 ft Serial No:	40012		4	448.50
QC s	sample notes.	Analyte(s):	5	451.10
	ank, no QC samples required):	- EDB	6	453.70
		- 200	7	456.30
Depth to Water: 449.24			8	458.90
Measure Water Level			9	461.50
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed			10	464.10
Notes:				
Reviewed by: Review	ew Date: 6-18-2020			e represent submerged n previous water level





Year: 2020

Well Location ID:

KAFB-106232 Deployment

Quarter: 3

Sample ID: GW232-203

Well Information	Well Depth:	523.00 ft MRP
Screen Interval Length (ft): 15	Top of Screen:	503.00 ft MRP
Previous Depth to Water (MRP): 448.22 (Gauged on 4/14/2020) LNAPL NOT detected during prior gau	iging Bottom of Screen:	518.00 ft MRP
Length of Screen not submerged (ft): -54.78		
Deployment Team: D. Schnelk, G. Beganje	Sampler Number: 🤝	Top of Sampler Depth (MRP)
Date Deployed: 6-15-2020 Time Deployed: 1235	$\mathfrak{D}$	503.70
PID: MiniRAE 3000 Serial No: WHOWY	2	506.30
PID: MiniRAE 3000 Serial No:	3	508.90
Water Level Meter: Solinst 500 ft Serial No:	4	511.50
PID Reading:  ppm  QC sample notes. (If blank, no QC samples required): - EDB	5	514.10
Depth to Water:		
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed		
Notes:		
Reviewed by: Review Date: 6-18-2020		lue represent submerged on previous water level





Well Location ID:

## **Passive Diffusion Water Sampling Data Sheet**

KAFB-106235-438 Dep

Deployment Quarter: 3

Sample ID: GW235-438-203

Year: 2020

Well Information			Well Depth: _	465.00 ft MRP
Screen Interval Length (ft): 25			Top of Screen: _	438.00 ft MRP
Previous Depth to Water (MRP): 437.29 (Gauged	on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	463.00 ft MRP
Length of Screen not submerged (ft): -0.71	(Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: D. Schweck, G.	Begaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-15-2020 Time	Deployed: 0837		9	438.70
PID: MiniRAE 3000 Serial No:	WH0004		3	441.30 443.90
	12400			
Water Level Meter: Solinst 500 ft Serial No:	WH0012		4	446.50
DID Deadings	QC sample notes.	Analyte(s):	5	449.10
PID Reading: ppm	(If blank, no QC samples required):	- EDB	6	451.70
Depth to Water: 437. 72  Measure Water Level	Duplicate sample required. Please deploy extra DMS as needed		7	454.30
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed				
Notes:				
Reviewed by: Ne ssenger	Review Date: 6 -18 -20 20			ne represent submerged n previous water level



Kirtland AFB BFF Quarterly Report - July-September 2020 SWMUs ST-106/SS-111



Well Location ID:

KAFB-106235-472

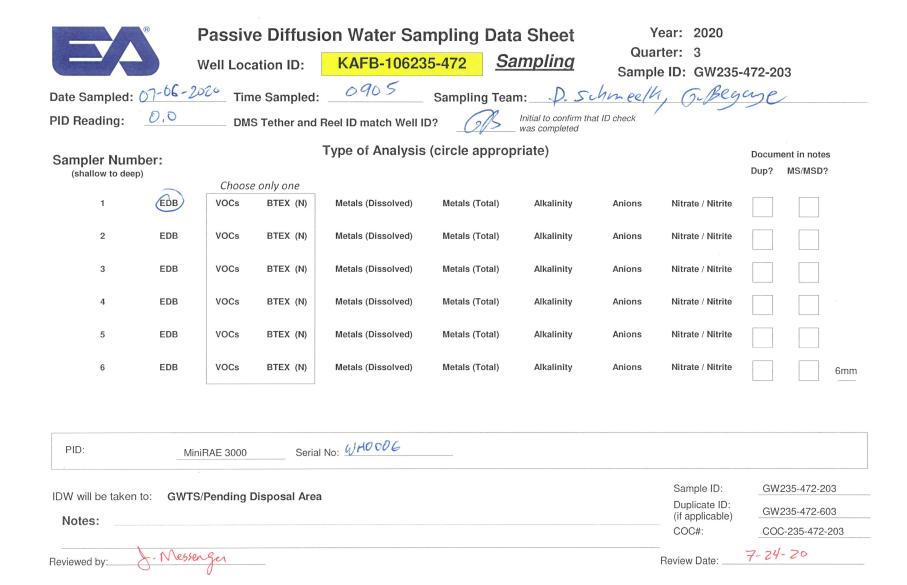
**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW235-472-203

Well Information			Well Depth: _	494.00 ft MRP
Screen Interval Length (ft): 20			Top of Screen: _	472.00 ft MRP
Previous Depth to Water (MRP): 437.28 (Gauged of	on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	492.00 ft MRP
Length of Screen not submerged (ft): -34.72				
Deployment Team: D. Schweelk, G	5. Begaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-15-2020 Time	Deployed:		1	472.70
	WHOOTZ 4)HOOD	4	(2)	475.30
PID: MiniRAE 3000 Serial No:	011000		3	477.90
Water Level Meter: Solinst 500 ft Serial No:			4	480.50
<b>↑ ↑</b>	QC sample notes.	A maluta (a)	5	483.10
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s):	6	485.70
			7	488.30
Depth to Water:				
DMS Tether and Reel ID match Well ID?				
Initial to confirm that ID				
check was completed		*		
Notes:				
		~ ~ ~		
Reviewed by: Messenger	Review Date: 6-18-2020			e represent submerged n previous water level





Well Location ID: KAI

KAFB-106235-501

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW235-501-203

Well Information	Well Depth:	523.00 ft MRP
Screen Interval Length (ft): 20	Top of Screen:	501.00 ft MRP
Previous Depth to Water (MRP): 437.32 (Gauged on 4/15/2020) LNAPL NOT detected during prior gauging	Bottom of Screen:	521.00 ft MRP
Length of Screen not submerged (ft): -63.68		1 /
Deployment Team: D. Schwelk, G. Begaye	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-15-2020 Time Deployed: 0856	<b>(1)</b>	501.70
1. )(annu	2	504.30
PID: MiniRAE 3000 Serial No: WHOOO4	3	506.90
Water Level Meter: Solinst 500 ft Serial No:	4	509.50
QC sample notes. Analyte(s):	5	512.10
PID Reading: ppm   QC sample notes. (If blank, no QC samples required):	6	514.70
Depth to Water:	7	517.30
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed		
Notes:		
Reviewed by: Review Date: 6-18-2020		ue represent submerged on previous water level

Pas Pas			Passive Diffusion Water Sampling Data Sheet					Year: 2020		
		Well Loc	ation ID:	KAFB-10623	<u>Sa</u>	mpling		rter: 3 e ID: GW235-	501-20	3
Date Sampled:	7-6-20	20 Tim	ne Sampled:	0922	Sampling Tear	m: D. Schn	eells, C	. Begand	,	
PID Reading:	0.0	DM:	S Tether and	Reel ID match Well II	D? <del>/</del>	Initial to confirm th was completed	at ID check			
Sampler Num				Type of Analysis	(circle approp	riate)			Documo	ent in notes MS/MSD?
1	EDB	VOCs	e only one BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
2	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
3	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
4	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
5	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		
6	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		6mm
			i.							
PID:	_M	iniRAE 3000	Seria	al No: WHOODE						÷
IDW will be taker	nto: GWT	'S/Pending I	Disposal Are	a				Sample ID:	GW	235-501-203
Notes:	rto. GWI	on chang i	Disposai Aici	u				Duplicate ID: (if applicable)	GW	235-501-603
Notes.								COC#:	COC	2-235-501-203
Reviewed by:	Mess	enger						Review Date:	7-24-	-2020



Well Location ID:

KAFB-106236-436

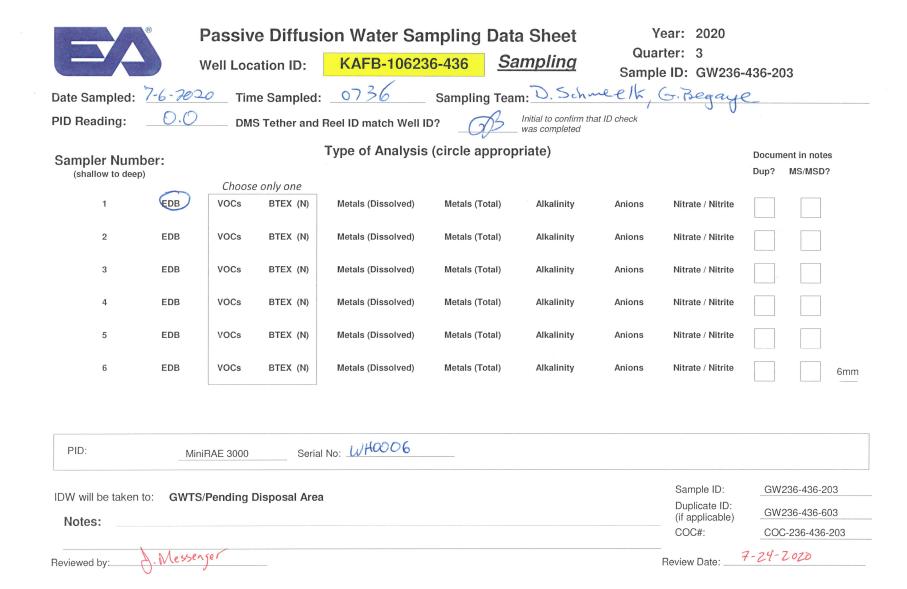
**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW236-436-203

Well Information	Well Depth:	463.00 ft MRP
Screen Interval Length (ft): 25	Top of Screen:	436.00 ft MRP
Previous Depth to Water (MRP): 437.09 (Gauged on 4/15/2020) LNAPL NOT detected during prior gauging	Bottom of Screen:	461.00 ft MRP
Length of Screen not submerged (ft): 1.09 **** (Water level <5ft above top of screen or screen not submerged)		
Deployment Team: D. Schneelk, G. Begage	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-15-2020 Time Deployed: 0741	1 7	436.70
PID: MiniRAE 3000 Serial No: WHOOOY	(2)	439.30
	(3)	441.90
Water Level Meter: Solinst 500 ft Serial No:	G) 32	444.50
QC sample notes. Analyte(s):	5	447.10
PID Reading: ppm (If blank, no QC samples required): - EDB	6	449.70
Depth to Water: 437.52  Measure Water Level	7	452.30
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed		
Notes:		
Reviewed by: Review Date: 6-18-2020		ne represent submerged In previous water level





Well Location ID: KAFB-106236-470

Deployment

Year: 2020

Quarter: 3

Sample ID: GW236-470-203

Well Information		Well Depth:	
Screen Interval Length (ft): 20		Top of Screen:	ft MRP
Previous Depth to Water (MRP): 437.07 (Gauged on 4/15/2020) LNAPL NOT detect	ted during prior gauging	Bottom of Screen:	490.00 ft MRP
Length of Screen not submerged (ft): -32.93			
Deployment Team: D. Schmelk, G. Begaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-15-2020 Time Deployed: 0752		1	470.70
PID: MiniRAE 3000 Serial No. WHOOD 4		2	473.30
PID: MiniRAE 3000 Serial No:		3	475.90
Water Level Meter: Solinst 500 ft Serial No:		4	478.50
QC sample notes.	Analyte(s):	5	481.10
PID Reading:ppm (If blank, no QC samples required	): - EDB	6	483.70
	- LDB	7	486.30
Depth to Water:			
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed  MS/MSD required. Please deploy extra DMS as needed			
Notes:			
Reviewed by: Review Date: 6-18-2020			lue represent submerged on previous water level

Passive Diffusion Water Sampling Data Sheet  Year: 2020 Quarter: 3									
	1		ation ID:	KAFB-10623		ampling	Sampl	e ID: GW236-	470-203
Date Sampled:		O Tim	e Sampled:	6752	Sampling Tea	m: D. Sch.	nee/k,	G. Bega	ye
PID Reading:	0.0	DM	S Tether and	Reel ID match Well II	0?	Initial to confirm the was completed	at ID check		
(shallow to deep)							Document in notes  Dup? MS/MSD?		
1	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
•		1005	DIEX (N)	metals (Bissolvea)	metals (Total)	Andminy	Allons	with the Figure	
2	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
3	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
4	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
5	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
6	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	6mm
								M	S/MSD required.
PID:	Mini	RAE 3000	Seria	1 No: WHOEDE					
IDW will be taken	a to: GWTS	/Pondina !	Disposal Area					Sample ID:	GW236-470-203
IDW will be taker		9		A with 1x5	Ima bold	No.		Duplicate ID: (if applicable)	GW236-470-603
Notes:	varied 50	ANIPIE	, 1 10/	1 1 1 1 1 2	DI OP DI	312		COC#:	COC-236-470-203
Reviewed by:	J-Messenge							Review Date:	7-24-2020



Year: 2020 Quarter: 3

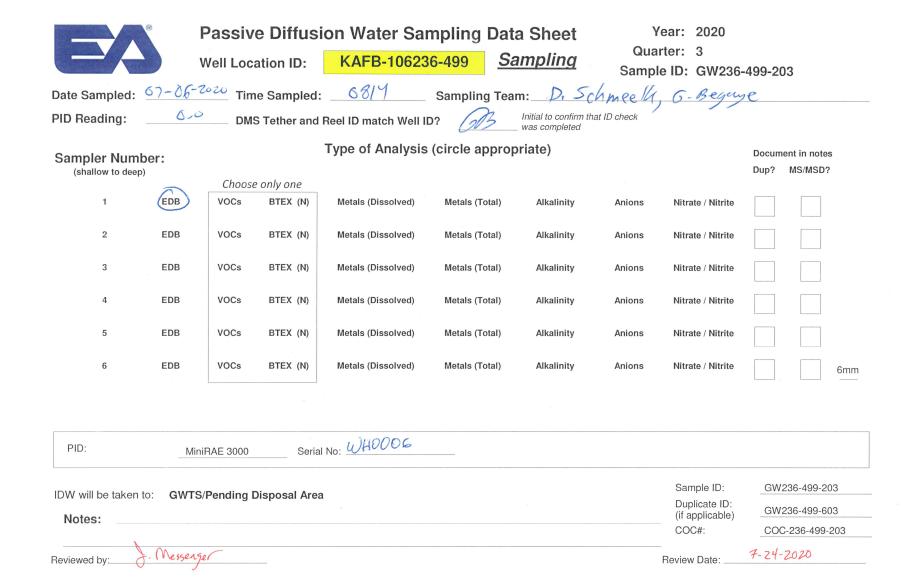
Well Location ID:

KAFB-106236-499

Deployment Quarter.

Sample ID: GW236-499-203

Well Information		Well Depth:	ft MRP
Screen Interval Length (ft): 20		Top of Screen:	499.00 ft MRP
Previous Depth to Water (MRP): 437.11 (Gauged on 4/15/2020) LNAPL N	OT detected during prior gauging	Bottom of Screen:	519.00 ft MRP
Length of Screen not submerged (ft): -61.89		*	
Deployment Team: D. Schneelk, G. Begage		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-15-2020 Time Deployed: 080	3	1	499.70
Tato Dopiojou.		2	502.30
PID: MiniRAE 3000 Serial No: WHOOOY		3	504.90
Water Level Meter: Solinst 500 ft Serial No: WHOOLZ		4	507.50
QC sample notes.	Analyte(s):	5	510.10
PID Reading: ppm (If blank, no QC samples	required):	6	512.70
		7	515.30
Depth to Water:			
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID check was completed			
Notes:			
		_	
Reviewed by: Review Date: 6-18	2020		ue represent submerged n previous water level





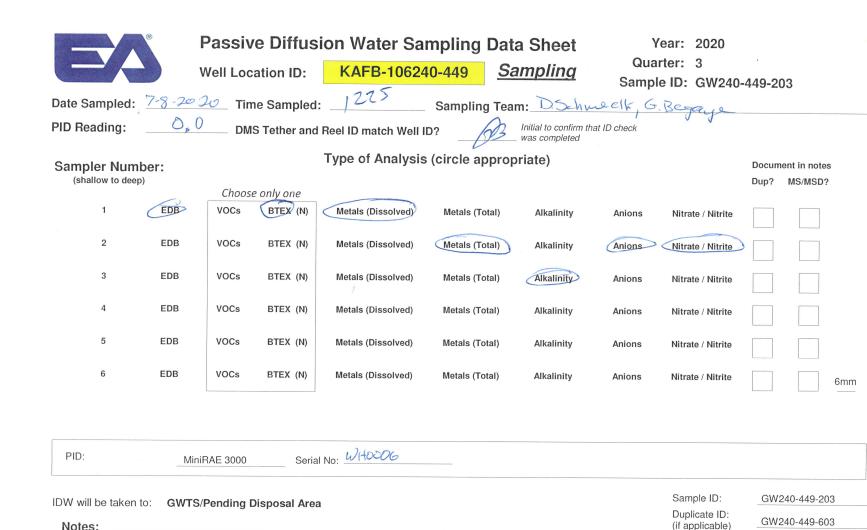
Well Location ID:

KAFB-106240-449 Deployment Quarter: 3

Year: 2020

Sample ID: GW240-449-203

Well Information			Well Depth: _	491.04 ft MRP
Screen Interval Length (ft): 40			Top of Screen: _	449.04 ft MRP
Previous Depth to Water (MRP): 469.49 (Gauged of	on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	489.04 ft MRP
Length of Screen not submerged (ft): 20.45 ***	(Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: D. Schneck, G. Be	egaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-7620 Time	Deployed: 295		1	449.74
	-31120011		2	452.34
PID: MiniRAE 3000 Serial No:	WH0004		3	454.94
Water Level Meter: Solinst 500 ft Serial No:	WH0012		4	457.54
	QC sample notes.	Analyte (a)	5	460.14
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s): - Alkalinity	6	462.74
11		- BTEX	7	465.34
Depth to Water: 469,53		- Anions	8 🗸	467.94
Measure Water Level		- Dissolved Metals	9	470.54
DMS Tether and Reel ID match Well ID?		- EDB - NO3/NO2-N	90	473.14
Initial to confirm that ID		- NO3/NO2-N - Total Metals	11	475.74
check was completed			12	478.34
Notes:		1	13	480.94
			14	483.54
Reviewed by: Me 55engar	Review Date: 6 -18-2020			e represent submerged n previous water level



. Wessenger

Notes:

Reviewed by:

COC-240-449-203

7-10-2020

COC#:

Review Date:



Well Location ID: K

KAFB-106241-428

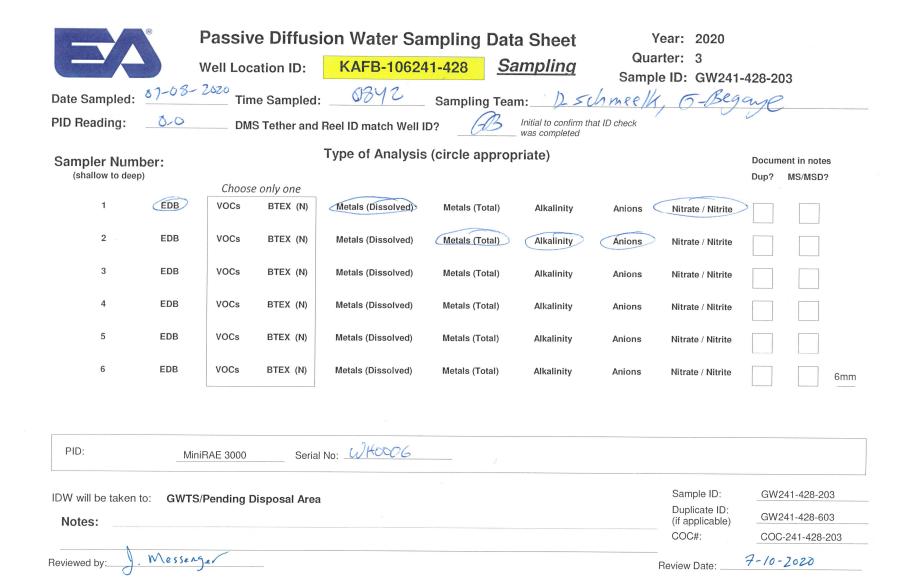
**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW241-428-203

Well Information	,		Well Depth: _	470.10 ft MRP
Screen Interval Length (ft): 40		×	Top of Screen: _	428.10 ft MRP
Previous Depth to Water (MRP): 446.42 (Gauged of	on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	468.10 ft MRP
Length of Screen not submerged (ft): 18.32 ****	(Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: D. Schwelk, G. B	egaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2020 Time	Deployed: 0847		1	428.80
	240004		2	431.40
PID: MiniRAE 3000 Serial No:	V140504		3	434.00
Water Level Meter: Solinst 500 ft Serial No:	WH0012		4	436.60
6.6	QC sample notes.	Analyte(s):	5	439.20
PID Reading: ppm	(If blank, no QC samples required):	- Alkalinity	6	441.80
Depth to Water:		- Anions	7	444.40
		- Dissolved Metals	8	447.00
Measure Water Level		- EDB	9	449.60
DMS Tether and Reel ID match Well ID?	- NO3/NO2-N - Total Metals		10	452.20
Initial to confirm that ID check was completed			11	454.80
check was completed			12	457.40
Notes:	<u> </u>	I -	13	460.00
			14	462.60
Reviewed by: Messenger	Review Date: 6-18-7020			e represent submerged ก previous water level





Well Location ID:

KAFB-106242-418

**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW242-418-203

Well Information			Well Depth: _	460.14 ft MRP
Screen Interval Length (ft): 40			Top of Screen: _	418.14 ft MRP
Previous Depth to Water (MRP): 438.20 (Gauged o	n 4/14/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	458.14 ft MRP
Length of Screen not submerged (ft): 20.06 ****	(Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: D. Schulelk, G.	Begaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-15-2020 Time I	Deployed: 1127		1	418.84
	1100011		2	421.44
PID: MiniRAE 3000 Serial No:	WH0004		3	424.04
Water Level Meter: Solinst 500 ft Serial No:	WH0012		4	426.64
6.0	QC sample notes.	A malista (a):	5	429.24
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s): - Alkalinity	6	431.84
1128 3 0	, 4	- Anions	7	434.44
Depth to Water: 438.32	,	- Dissolved Metals	8	437.04
Measure Water Level	,	- EDB	9	439.64
DMS Tether and Reel ID match Well ID?		- NO3/NO2-N - Total Metals	10	442.24
Initial to confirm that ID		- Total Metals	11	444.84
check was completed			12	447.44
Notes:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13	450.04
			14	452.64
Reviewed by:	Review Date:6-18 -2020		Depths highlighted blue samplers based on	represent submerged previous water level

Passive Diffusion Water Sampling Data Sheet  Year: 2020											
	W	/ell Loca	ation ID:	KAFB-10624	42-418 <u>S</u>	Sampling		rter: 3 e ID: GW242-	418-20	3	
Date Sampled:	7-7-200	Tim	e Sampled	1055	Sampling Te	eam: D. Sch	neelk,	6. Bega-	je		
PID Reading:	0.0	DMS	S Tether and	Reel ID match Well	ID?	Initial to confirm tha was completed	t ID check				
(station to deep)								ent in notes MS/MSD?			
		Choose	only one								
1	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
2	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
3	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
4	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
5	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite			
6	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite		6r	mm
PID:	MiniF	RAE 3000	Seria	al No: WHOOOE			,				
IDW will be taken	to: CWTS/	Danding F	Nanagal Ara	•			9	Sample ID:	GW2	242-418-203	
IDW will be taken  Notes:	110. GW15/I	renaing L	Disposal Are	a				Duplicate ID: (if applicable)	GW2	242-418-603	
110163.								COC#:	COC	-242-418-203	)
Reviewed by:	. Wessenge							Review Date: 7	-10-20	20	



KAFB-106243-425

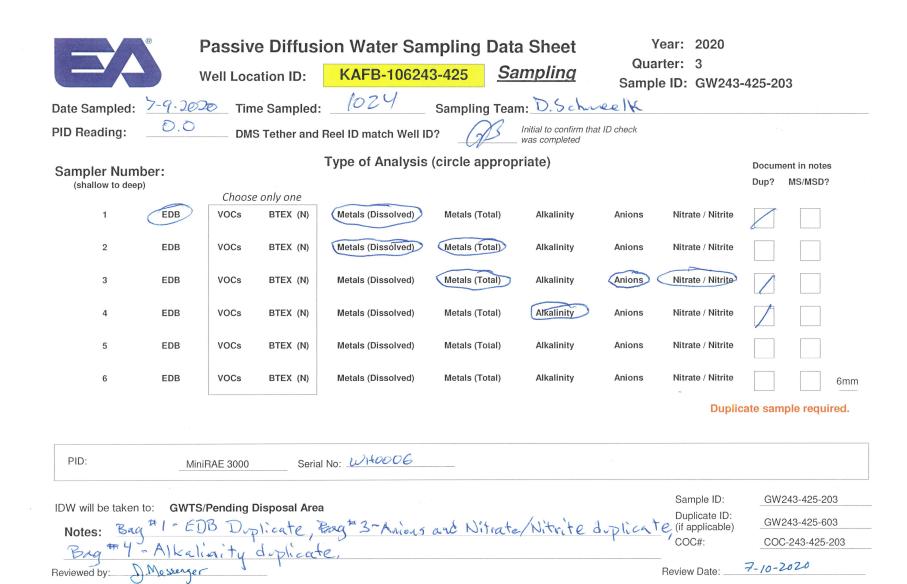
Well Location ID:

**Deployment** 

Year: 2020 Quarter: 3

Sample ID: GW243-425-203

Well Information			Well Depth:	ft MRP
Screen Interval Length (ft): 40			Top of Screen:	425.04 ft MRP
Previous Depth to Water (MRP): 442.84 (Gauged of	on 4/14/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	465.04 ft MRP
Length of Screen not submerged (ft): 17.80 ****	(Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: D. Schmeelk, G.T.	Zegerst		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2020 Time	Deployed: 0919		1	425.74
• • • • • • • • • • • • • • • • • • • •			2	428.34
PID: MiniRAE 3000 Serial No:	WH0004		3	430.94
Water Level Meter: Solinst 500 ft Serial No:	4HOO12		4	433.54
<b>8</b> ()	QC sample notes.	Analyte(s):	5	436.14
PID Reading: ppm	(If blank, no QC samples required):	- Alkalinity	6	438.74
14.4.2. AG		- Anions	7	441.34
Depth to Water: 443.09	Duplicate sample required. Please	- Dissolved Metals	(8)	443.94
Measure Water Level	deploy extra DMS as needed	- EDB	9	446.54
DMS Tether and Reel ID match Well ID?		- NO3/NO2-N - Total Metals	10	449.14
Initial to confirm that ID			1	451.74
check was completed		,	12	454.34
Notes:			13	456.94
			14	459.54
Reviewed by: Messenger	Review Date: 6-18-2020			ue represent submerged n previous water level



Kirtland AFB BFF Quarterly Report - July-September 2020 SWMUs ST-106/SS-111



Well Location ID:

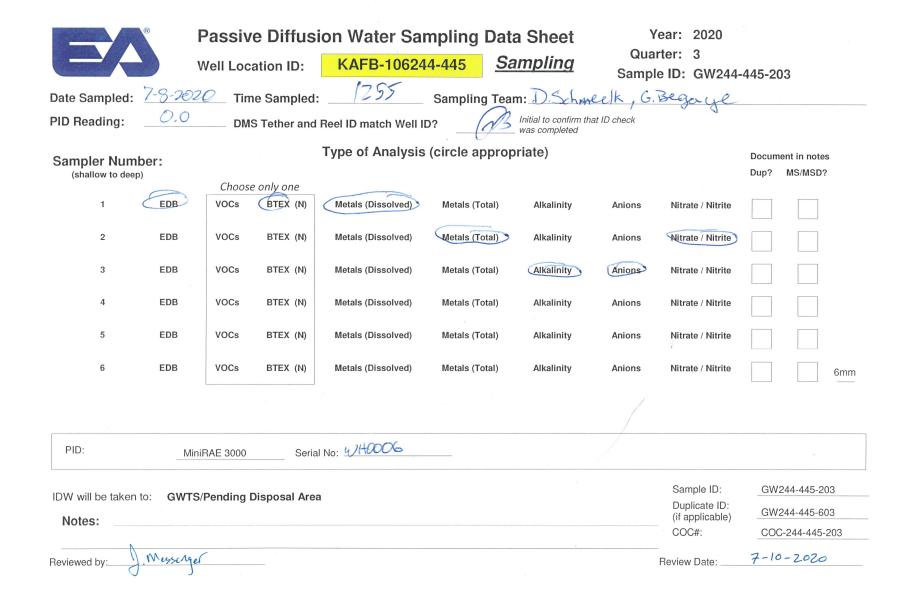
KAFB-106244-445 Dep

Deployment Quarter: 3

Sample ID: GW244-445-203

Year: 2020

Well Information	· · · · · · · · · · · · · · · · · · ·	Well Depth: _	487.09 ft MRP
Screen Interval Length (ft): 40		Top of Screen: _	445.09 ft MRP
Previous Depth to Water (MRP): 465.30 (Gauged on 4/14/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	485.09 ft MRP
Length of Screen not submerged (ft): 20.21 **** (Water level <5ft above top of screen or	screen not submerged)		1.0
Deployment Team: D. Schneelk, G. Begaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2020 Time Deployed: 1018		1	445.79
		2	448.39
PID: MiniRAE 3000 Serial No: WHOGOY		3	450.99
Water Level Meter: Solinst 500 ft Serial No: WHOO(2		4	453.59
QC sample notes.	Analyta(a):	5	456.19
PID Reading:ppm (If blank, no QC samples required):	Analyte(s): - Alkalinity	6	458.79
	- BTEX	7	461.39
Depth to Water: 465.14	- Anions	8 🗸	463.99
Measure Water Level	- Dissolved Metals	9	466.59
DMS Tether and Reel ID match Well ID?	- EDB - NO3/NO2-N	10	469.19
Initial to confirm that ID	- Total Metals	(11)	471.79
check was completed		12	474.39
Notes:	<u> </u>	13	476.99
		14	479.59
Reviewed by: Review Date:			e represent submerged n previous water level





Well Location ID:

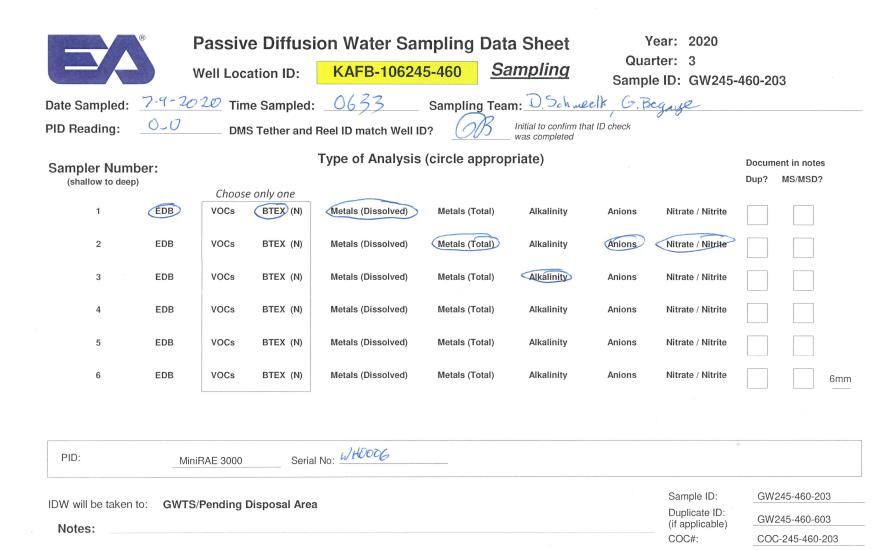
KAFB-106245-460

Deployment

Year: 2020 Quarter: 3

Sample ID: GW245-460-203

Well Information			Well Depth:	505.67 ft MRP
Screen Interval Length (ft): 40			Top of Screen:	463.67 ft MRP
Previous Depth to Water (MRP): 483.36 (Gauged of	on 4/14/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	503.67 ft MRP
Length of Screen not submerged (ft): 19.69 ****	(Water level <5ft above top of screen or s	screen not submerged)	<u> </u>	
Deployment Team: D. Schweelk, G. Be	egange		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2020 Time	Deployed: 1204		1	464.37
	lucato V		2	466.97
PID: MiniRAE 3000 Serial No:	WH0004		3	469.57
Water Level Meter: _Solinst 500 ft Serial No: _	WHODIZ		4	472.17
800	QC sample notes.	Analyte(s):	5	474.77
PID Reading: ppm	(If blank, no QC samples required):	- Alkalinity	6	477.37
Depth to Water: 483.39		- BTEX	7	479.97
Dopth to Water		- Anions	8	482.57
Measure Water Level	,	- Dissolved Metals	9	485.17
DMS Tether and Reel ID match Well ID?		- EDB - NO3/NO2-N	(10)	487.77
Initial to confirm that ID		- Total Metals	(91)	490.37
check was completed		1 2	12	492.97
Notes:			13	495.57
			14	498.17
Reviewed by: Messenger	Review Date: 6-18-7020			e represent submerged previous water level



7-10-2020

Review Date:



Well Location ID:

KAFB-106247-450

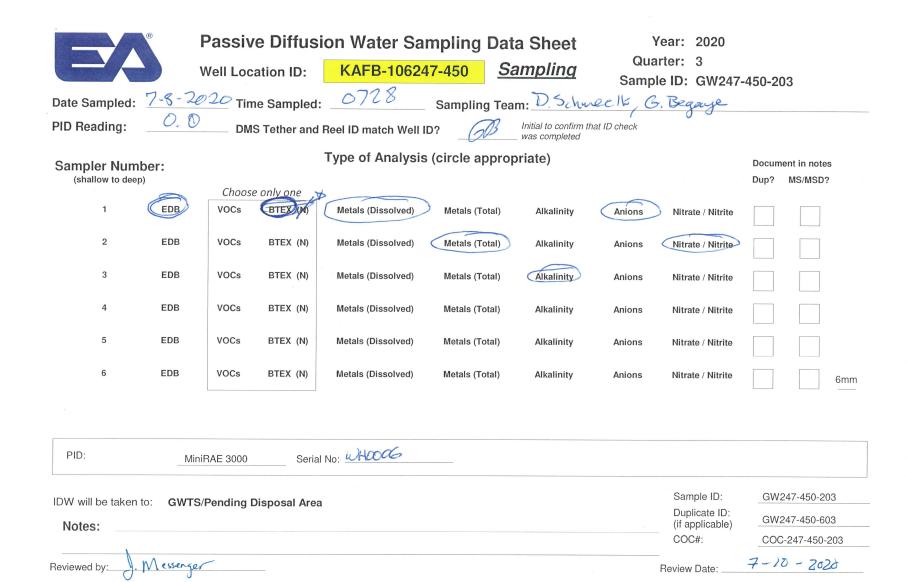
**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GW247-450-203

Well Information		Well Depth:	495.64 ft MRP
Screen Interval Length (ft): 40		Top of Screen:	453.32 ft MRP
Previous Depth to Water (MRP): 474.03 (Gauged on 4/14/2020) LNAPL NOT detected		Bottom of Screen:	493.32 ft MRP
Length of Screen not submerged (ft): 20.71 **** (Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: Dylan Schweelk, Galveston Begaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2020 Time Deployed: 1234		1	454.02
		2	456.62
PID: MiniRAE 3000 Serial No: WHOOGY		3	459.22
Water Level Meter: Solinst 500 ft Serial No: WHOOLZ		4	461.82
Water Level Meter. Odinist 600 ft Gorda 1101		5	464.42
PID Reading: ppm QC sample notes. (If blank, no QC samples required):	Analyte(s): - Alkalinity	6	467.02
	- Alkalility	7	469.62
Depth to Water: 473.85	- Anions	8	472.22
Measure Water Level	- Dissolved Metals	9	474.82
	- EDB - NO3/NO2-N	10	477.42
DMS Tether and Reel ID match Well ID?  Initial to confirm that ID	- NO3/NO2-N	(77)	480.02
check was completed		12	482.62
Notes:		13	485.22
Notes.		14	487.82
Reviewed by: Review Date: 6-18-2020			lue represent submerged on previous water level





Well Location ID:

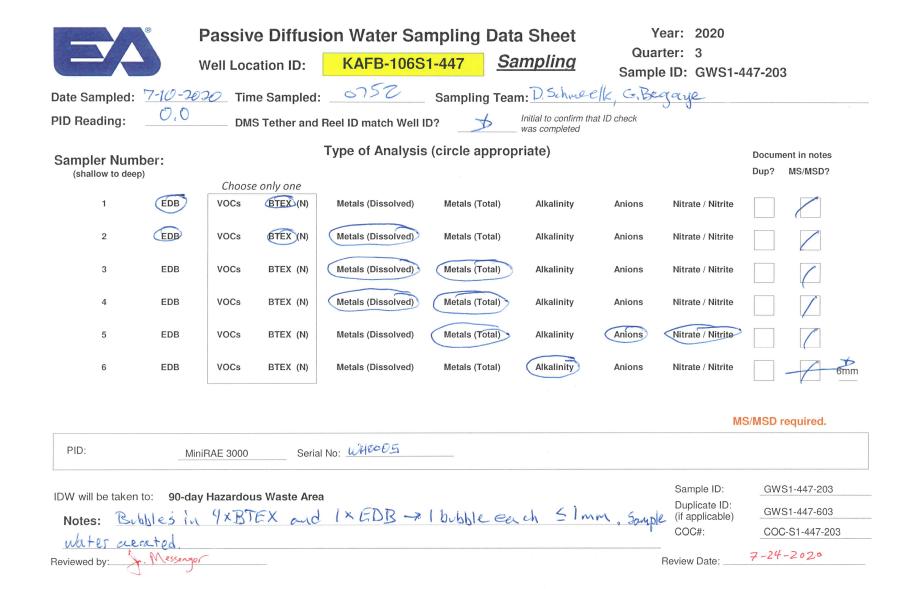
## **Passive Diffusion Water Sampling Data Sheet**

KAFB-106S1-447 Deployment

Year: 2020 Quarter: 3

Sample ID: GWS1-447-203

Well Information			Well Depth:	489.99 ft MRP
Screen Interval Length (ft): 40			Top of Screen:	447.00 ft MRP
Previous Depth to Water (MRP): 467.31 (Gauged	on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	487.00 ft MRP
Length of Screen not submerged (ft): 20.31 ****	(Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: D. Schneelk, G. Be	gaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-18-2020 Time	Deployed: 1200		1	447.70
Time	<u> </u>		2	450.30
PID: MiniRAE 3000 Serial No:	WH0006		3	452.90
Water Level Meter: Solinst 500 ft Serial No:	253056		4	455.50
<u></u>		I	5	458.10
PID Reading: 3, 4 ppm	QC sample notes. (If blank, no QC samples required):	Analyte(s):	6	460.70
, and the second		- Alkalinity	7	463.30
Depth to Water: 467.25		- BTEX - Anions	8 —	465.90
Measure Water Level		- Dissolved Metals		
		- EDB	9	468.50
DMS Tether and Reel ID match Well ID?		- NO3/NO2-N	10	471.10
Initial to confirm that ID	MS/MSD required. Please deploy	- Total Metals	(11)	473.70
check was completed	extra DMS as needed		12	476.30
Notes:			13)	478.90
			14	481.50
Reviewed by: Messenge	Review Date: 6 - 22 - 20			ue represent submerged n previous water level





Well Location ID:

KAFB-106S2-451

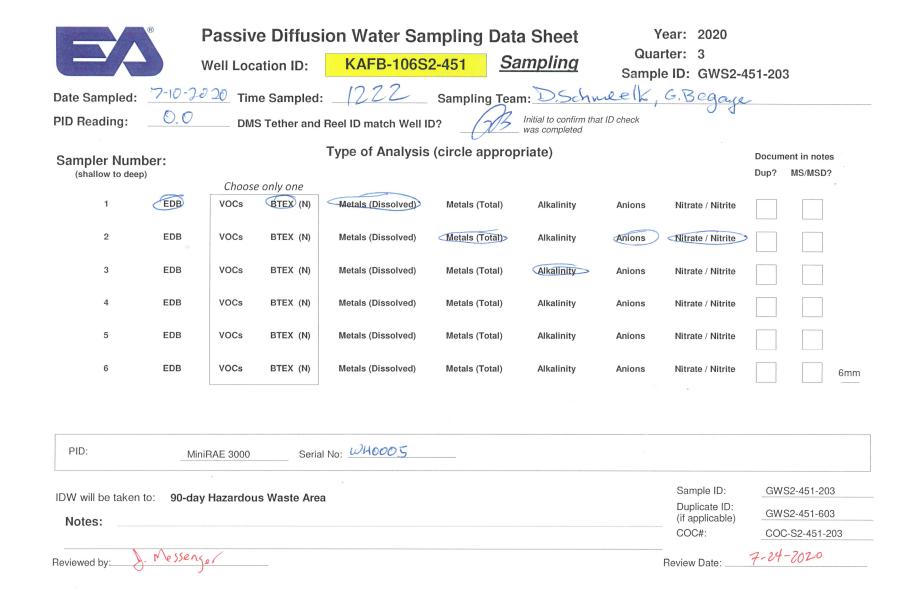
**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GWS2-451-203

Well Information		Well Depth: _	496.90 ft MRP
Screen Interval Length (ft): 40		Top of Screen: _	454.23 ft MRP
Previous Depth to Water (MRP): 474.51 (Gauged on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	494.23 ft MRP
Length of Screen not submerged (ft): 20.28 **** (Water level <5ft above top of screen or	screen not submerged)		i.
Deployment Team: D. Schneelk, G. Begage		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-18-2020 Time Deployed: 0851		1	454.93
		2	457.53
PID: MiniRAE 3000 Serial No: WHEEOG		3	460.13
Water Level Meter: Solinst 500 ft Serial No: 253056		4	462.73
QC sample notes.	Analyte(s):	5	465.33
PID Reading: ppm (If blank, no QC samples required):	- Alkalinity	6	467.93
1274 5 A	- BTEX	7	470.53
Depth to Water: <u>474,52</u>	- Anions	8 🗸	473.13
Measure Water Level	- Dissolved Metals	0	475.73
DMS Tether and Reel ID match Well ID?	- EDB - NO3/NO2-N	10	478.33
Initial to confirm that ID	- Total Metals	<b></b>	480.93
check was completed	,	12	483.53
Notes:		13	486.13
		14	488.73
Reviewed by: 6-22-20			e represent submerged n previous water level





Well Location ID:

KAFB-106S3-449

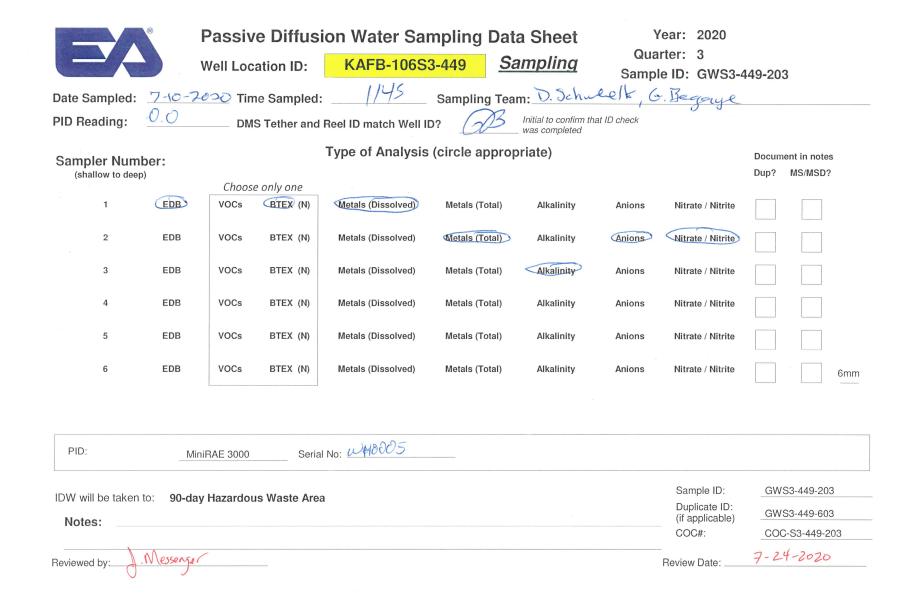
Deployment

Year: 2020

Quarter: 3

Sample ID: GWS3-449-203

Well Information			Well Depth: _	494.42 ft MRP
Screen Interval Length (ft): 40			Top of Screen: _	452.18 ft MRP
Previous Depth to Water (MRP): 473.59 (Gauged of	on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	492.18 ft MRP
Length of Screen not submerged (ft): 21.41 ***	(Water level <5ft above top of screen or	screen not submerged)		-
Deployment Team: D. Schnelk, G. Be	egaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-18-2020 Time	Deployed: 0822		1	452.88
	WH0006		2	455.48
PID: MiniRAE 3000 Serial No:	U 4000 6		3	458.08
Water Level Meter: _Solinst 500 ft Serial No: _	253056		4	460.68
2.1	QC sample notes.	Analyte(s):	5	463.28
PID Reading: ppm	(If blank, no QC samples required):	- Alkalinity	6	465.88
VP3 ( 🌣		- BTEX	7	468.48
Depth to Water: 473.60		- Anions	8	471.08
Measure Water Level		- Dissolved Metals	9	473.68
DMS Tether and Reel ID match Well ID?		- EDB - NO3/NO2-N	10	476.28
Initial to confirm that ID		- Total Metals	TI I	478.88
check was completed			12	481.48
Notes:			13	484.08
			14	486.68
Reviewed by: . Messeyer	Review Date: 6 - 22 - 20			e represent submerged previous water level





Year: 2020 Quarter: 3

Well Location ID:

KAFB-106S4-446

**Deployment** 

Sample ID: GWS4-446-203

Well Information			Well Depth: _	491.73 ft MRP
Screen Interval Length (ft): 40			Top of Screen: _	449.23 ft MRP
Previous Depth to Water (MRP): 468.51 (Gauged o	n 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	489.23 ft MRP
Length of Screen not submerged (ft): 19.28 ****	Water level <5ft above top of screen or s	creen not submerged)		
Deployment Team: D. Schneelk, G. Bega	ye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-17-2820 Time [	Deployed: 316		1	449.93
Bate Beproyee.		7	2	452.53
PID: MiniRAE 3000 Serial No:	w40004		3	455.13
Water Level Meter: _Solinst 500 ft Serial No: _	Geotech - 001		4	457.73
	QC sample notes.	Analyte(s):	5	460.33
PID Reading: ppm	(If blank, no QC samples required):	- Alkalinity	6	462.93
		- BTEX	7	465.53
Depth to Water: <u>468,46</u>		- Anions	8	468.13
Measure Water Level		- Dissolved Metals	9	470.73
Date To the Control of the Well ID2		- EDB - NO3/NO2-N	<b>10</b>	473.33
DMS Tether and Reel ID match Well ID?		- Total Metals	1	475.93
check was completed			12	478.53
Notes:			13	481.13
Notes.			14	483.73
Reviewed by:	Review Date: 6-18-2020			ue represent submerged n previous water level

Date Sampled: PID Reading:		Well Loc	ation ID: ne Sampled	KAFB-106S  : /3/3  Reel ID match Well II	4-446 Sampling Tear	mpling	Qua Sampl	rear: 2020 rter: 3 le ID: GWS4-4	
Sampler Num	her:			Type of Analysis	(circle approp	riate)			Document in notes
(shallow to deep		Chaos	e only one						Dup? MS/MSD?
. 1	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
2	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
3	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
4	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
5	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	
6	EDB	VOCs	BTEX (N)	Metals (Dissolved)	Metals (Total)	Alkalinity	Anions	Nitrate / Nitrite	6mm
PID:	Min	iRAE 3000	Seria	II No: WHOOO6					
IDW will be taken	to: Pendir	ng Analysis	e Vard					Sample ID:	GWS4-446-203
Notes:	io. Fenuli	ig Allalysi	s raiu					Duplicate ID: (if applicable)	GWS4-446-603
140165.								COC#:	COC-S4-446-203
Reviewed by:	. Messens	ger						Review Date:	7-10-2020



Well Location ID:

KAFB-106S5-446

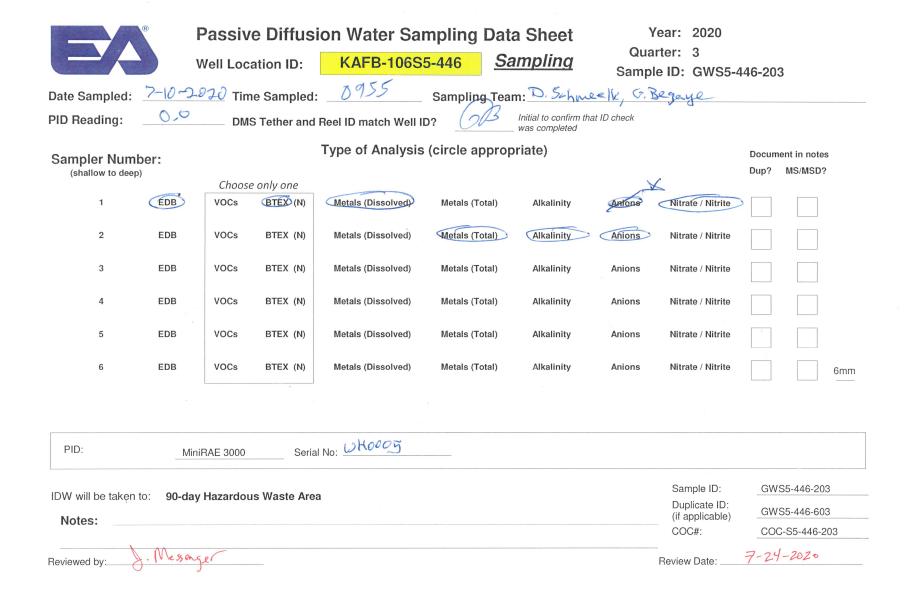
**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GWS5-446-203

Well Information			Well Depth: _	488.32 ft MRP
Screen Interval Length (ft): 40			Top of Screen: _	446.08 ft MRP
Previous Depth to Water (MRP): 465.38 (Gauged of	on 4/16/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	486.08 ft MRP
Length of Screen not submerged (ft): 19.30 ****	(Water level <5ft above top of screen or	screen not submerged)	, - ×	
Deployment Team: D. Schwelk, G. B	egaye	· · · · ·	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-18-2020 Time	Deployed: 071		1	446.78
Sato Soproyou.			2	449.38
PID: MiniRAE 3000 Serial No:	WH0006		3	451.98
Water Level Meter: Solinst 500 ft Serial No:	253056		4	454.58
		1	5	457.18
PID Reading:ppm	QC sample notes. (If blank, no QC samples required):	Analyte(s):	6	459.78
Wet et		- Alkalinity - BTEX	7	462.38
Depth to Water: <u>Y65.65</u>		- Anions	8	464.98
Measure Water Level		- Dissolved Metals	9	467.58
DMS Tether and Reel ID match Well ID?		- EDB - NO3/NO2-N	10	470.18
Initial to confirm that ID		- Total Metals	Gi	472.78
check was completed			12	475.38
Notes:			13	477.98
			14	480.58
Reviewed by: Messenger	Review Date: 6-22-20			e represent submerged n previous water level





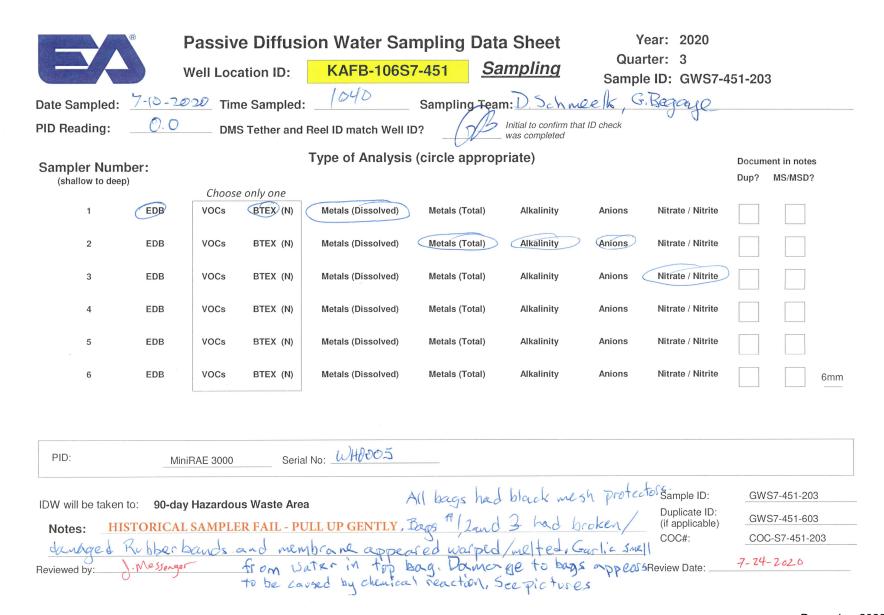
Well Location ID: KAFB-106S7-451

**Deployment** 

Year: 2020 Quarter: 3

Sample ID: GWS7-451-203

Well Information		Well Depth:	492.60 ft MRP
Screen Interval Length (ft): 40		Top of Screen:	451.00 ft MRP
Previous Depth to Water (MRP): 470.87 (Gauged on 4/16/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	491.00 ft MRP
Length of Screen not submerged (ft): 19.87 **** (Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: D. Schwelk, G. Begaye		Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-18-2020 Time Deployed: 0739		1	451.70
1110000		2	454.30
PID: MiniRAE 3000 Serial No: WHOOOG		3	456.90
Water Level Meter: Solinst 500 ft Serial No: 253056		4	459.50
QC sample notes.	Analyte(s):	5	462.10
PID Reading:ppm (If blank, no QC samples required):	- Alkalinity	6	464.70
VM (A)	- BTEX	7	467.30
Depth to Water: Y71.12	- Anions	8	469.90
Measure Water Level	- Dissolved Metals	9	472.50
DMS Tether and Reel ID match Well ID?	- EDB - NO3/NO2-N	10	475.10
Initial to confirm that ID	- Total Metals	91	477.70
check was completed		12	480.30
Notes: ADD DMS PROTECTIVE SLEEVES	i v	13	482.90
Used baggs with black mesh.		14	485.50
Reviewed by: Review Date: 6-22-20			ne represent submerged n previous water level





Well Location ID: KAFB-106S8-451

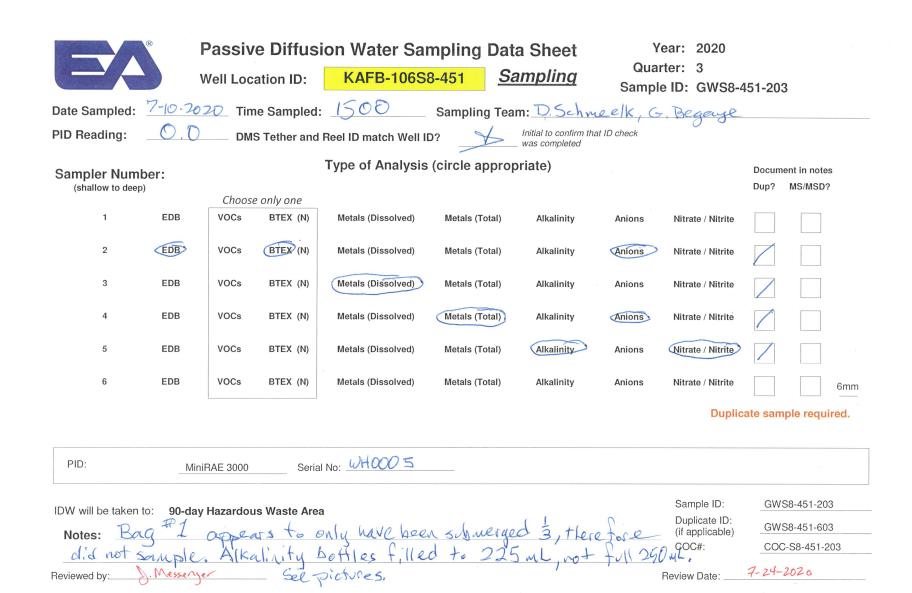
**Deployment** 

Year: 2020

Quarter: 3

Sample ID: GWS8-451-203

Well Information			Well Depth:	491.97 ft MRP
Screen Interval Length (ft): 40			Top of Screen:	454.22 ft MRP
Previous Depth to Water (MRP): 473.61 (Gauged of	on 4/15/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen:	494.22 ft MRP
Length of Screen not submerged (ft): 19.39 ****	(Water level <5ft above top of screen or	screen not submerged)		
Deployment Team: Dylan Schmelly	Galvelon Reguye	· · · · · · · · · · · · · · · · · · ·	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: SG-18-7222 Time	Deployed: 113		1	454.92
	· Alappé		2	457.52
PID: <u>MiniRAE 3000</u> Serial No:	WHOOSE		3	460.12
Water Level Meter: Solinst 500 ft Serial No:	253056		4	462.72
<u> </u>	QC sample notes.	Analyta(a)	5	465.32
PID Reading: ppm	(If blank, no QC samples required):	Analyte(s):  - Alkalinity	6	467.92
		- BTEX	7	470.52
Depth to Water: <u>473.56</u>	Duplicate sample required. Please	- Anions	8	473.12
Measure Water Level	deploy extra DMS as needed	- Dissolved Metals	9	475.72
DMS Tether and Reel ID match Well ID?		- EDB - NO3/NO2-N	10	478.32
Initial to confirm that ID		- Total Metals	1	480.92
check was completed			12	483.52
Notes:			13	486.12
			14	488.72
Reviewed by:, Messensor	Review Date: 6 - 2 7 - 20			lue represent submerged on previous water level





Year: 2020 Quarter: 3

Well Location ID:

KAFB-106S9-447

<u>Deployment</u> Sample II

Sample ID: GWS9-447-203

Well Information			Well Depth: _	489.49 ft MRP
Screen Interval Length (ft): 40			Top of Screen: _	447.12 ft MRP
Previous Depth to Water (MRP): 468.08 (Gauged of	on 4/16/2020) LNAPL NOT detected	during prior gauging	Bottom of Screen: _	487.12 ft MRP
Length of Screen not submerged (ft): 20.96 ****	(Water level <5ft above top of screen or	screen not submerged)		*
Deployment Team: Dylan Schmet	14, Galvefor Bega	K	Sampler Number:	Top of Sampler Depth (MRP)
Date Deployed: 6-/8-2020 Time	Deployed: 0923	<u> </u>	1	447.82
			2	450.42
PID: MiniRAE 3000 Serial No:	WH 0006 253056		3	453.02
Water Level Meter: Solinst 500 ft Serial No:	253056		4	455.62
<b>A</b> •	QC sample notes.	Analyte(s):	5 `	458.22
PID Reading: ppm	(If blank, no QC samples required):	- Alkalinity	6	460.82
Depth to Water: 468,21		- BTEX	7	463.42
		- Anions	8	466.02
Measure Water Level		- Dissolved Metals	9	468.62
DMS Tether and Reel ID match Well ID?		- EDB - NO3/NO2-N	10	471.22
Initial to confirm that ID		- Total Metals	11)	473.82
check was completed			12	476.42
Notes:		I	13	479.02
	,		14	481.62
Reviewed by: We sserger	Review Date: 6 - 22 - 20			ne represent submerged n previous water level

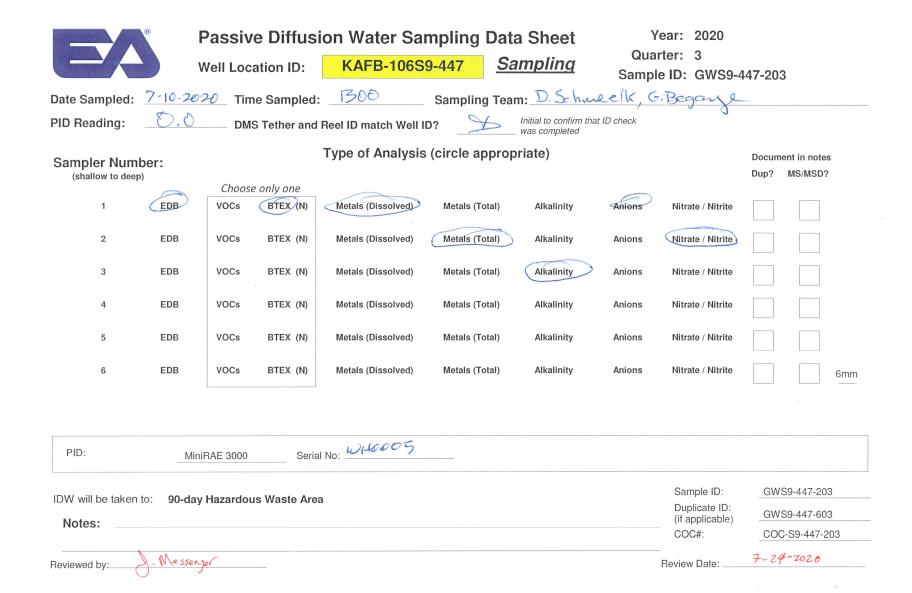


Table E-3-1
Water Quality Field Measurements for the Current and Previous Three Quarters

Well	Sample	Sample	Temperature	рН	Spec. Cond.	DO	ORP	Turbidity
Location ID	Quarter	Date	(°C)	(S.U.)	(µS/cm)	(mg/L)	(mV)	(NTU)
KAFB-106002	Q2 2020	4/17/2020	18.5	7.51	410.6	6.31	303.1	0.31
	Q4 2019	10/11/2019	18.5	7.85	457.2	4.55	216.8	0.08
KAFB-106003	Q3 2020	7/15/2020	20.4	7.79	602	6.64	329.9	2.31
	Q2 2020	4/30/2020	21.3	7.77	514.8	5.49	181.6	1.51
	Q1 2020	1/17/2020	16.7	7.95	632	6.03	400.4	0.18
	Q4 2019	10/28/2019	17.5	7.8	863	8.14	383.5	2.06
KAFB-106004	Q3 2020	7/16/2020	22.0	7.59	481.1	6.48	352.6	0.60
	Q2 2020	5/5/2020	20.9	7.65	393.2	7.45	166.3	0.39
	Q1 2020	1/16/2020	13.4	7.93	428.4	7.17	403.8	2.42
	Q4 2019	10/24/2019	15.5	7.91	471	5.59	233.9	2.26
KAFB-106005	Q3 2020	7/13/2020	22.4	7.38	1179	0.21	-289.1	13.8
KAFB-106006	Q2 2020	4/24/2020	18.4	7.69	527.8	1.60	-74.6	2.79
	Q4 2019	11/4/2019	19.4	7.33	477.6	1	-90	1.52
KAFB-106007	Q2 2020	4/24/2020	21.2	7.88	389.5	4.57	242.2	1.66
	Q4 2019	10/18/2019	17	7.92	381.7	4.4	376.9	0.26
KAFB-106008	Q4 2019	11/7/2019	18.1	6.87	925	2.02	-68.1	7.28
KAFB-106010	Q2 2020	4/24/2020	20.7	7.13	577	0.80	-196.6	1.11
	Q4 2019	11/5/2019	18.6	7.03	780	0.65	-155.9	2.32
KAFB-106011	Q2 2020	4/17/2020	18.3	7.62	1,050	0.71	291.0	1.12
	Q4 2019	10/14/2019	18.8	7.47	1413	0.93	153.1	0.43
KAFB-106012R	Q3 2020	7/14/2020	22.9	7.36	1,400	6.93	300.8	12.0
	Q2 2020	4/23/2020	23.0	7.40	1,700	6.03	228.7	0.85
	Q1 2020	1/14/2020	17.0	7.34	1,586	6.60	334.5	7.14
	Q4 2019	10/18/2019	19	7.48	1739	7.24	387.6	0.57
KAFB-106013	Q3 2020	7/15/2020	23.9	7.63	451.8	4.05	278.4	6.67
	Q2 2020	5/1/2020	21.5	7.79	467.7	1.53	138.1	10.8
	Q1 2020	1/15/2020	16.7	7.82	483.2	1.82	360.2	2.72
	Q4 2019	10/23/2019	17.8	7.71	477.1	2.47	83.8	3.79
KAFB-106014	Q2 2020	4/24/2020	19.1	7.19	1,085	1.56	-128.6	4.86
	Q4 2019	11/4/2019	18.8	7.12	1088	1.64	-91.5	23.7
KAFB-106016	Q2 2020	4/17/2020	18.9	7.88	346.3	2.86	103.5	3.30
	Q4 2019	10/11/2019	18.2	7.48	370.3	3.88	76.6	8.24
KAFB-106017	Q2 2020	4/21/2020	19	7.59	497.4	0.24	-64.8	1.42
	Q4 2019	10/15/2019	18.3	7.71	442.5	0.26	-34.8	0.87
KAFB-106018	Q2 2020	5/8/2020	19.9	7.57	558	0.59	32.8	3.08
	Q4 2019	10/15/2019	18.9	7.89	460	0.18	43.5	0.16
KAFB-106019	Q2 2020	4/23/2020	19.8	7.45	1,895	5.27	77.8	36.6
	Q4 2019	10/16/2019	18.9	7.37	1026	2.97	76.3	9.72
KAFB-106020	Q2 2020	4/28/2020	19.3	7.82	583	5.51	271.8	118
	Q4 2019	10/17/2019	18.4	7.48	726	5.11	53.9	194
KAFB-106024	Q2 2020	4/20/2020	20.1	7.57	428.1	0.56	301.7	9.44
	Q4 2019	10/16/2019	20.2	7.69	443.8	0.44	128.5	0.5
KAFB-106027	Q2 2020	4/20/2020	18.1	7.84	385.9	3.88	348.4	3.38
	Q4 2019	10/15/2019	18.1	7.98	436.7	3.19	319.6	1.07

Table E-3-1
Water Quality Field Measurements for the Current and Previous Three Quarters

					Spec.			
Well	Sample	Sample	Temperature	рН	Cond.	DO	ORP	Turbidity
Location ID	Quarter	Date	(°C)	(S.U.)	(µS/cm)	(mg/L)	(mV)	(NTU)
KAFB-106038	Q2 2020	4/22/2020	19.7	7.68	823	4.07	286.0	2.46
	Q4 2019	10/17/2019	20.7	7.74	892	2.31	364.7	1.07
KAFB-106039	Q2 2020	4/22/2020	20.9	7.72	689	5.25	244.1	10.7
	Q4 2019	10/17/2019	19.3	7.77	781	2.54	377.8	0.86
KAFB-106040	Q2 2020	4/23/2020	20.3	7.69	453.9	4.47	345.2	5.12
	Q4 2019	10/16/2019	21.4	7.75	551	3.78	296	27.7
KAFB-106044	Q2 2020	4/20/2020	18.1	7.85	365.1	3.11	331.1	0.52
	Q4 2019	10/15/2019	18.6	7.98	374.7	3.03	325	0.66
KAFB-106045	Q2 2020	4/24/2020	18.9	7.91	354.0	2.85	348.7	0.47
	Q4 2019	10/21/2019	17.4	7.91	394.8	2.65	344.4	0.11
KAFB-106046	Q2 2020	4/22/2020	19.7	7.8	432.7	4.46	202.2	0.50
	Q4 2019	10/14/2019	19.1	7.81	417.3	5.3	358.1	0.57
KAFB-106047	Q2 2020	4/17/2020	18.5	7.27	386.8	5.81	324.3	3.40
	Q4 2019	10/14/2019	19	7.41	403.7	5.95	353.1	9.67
KAFB-106048	Q2 2020	4/29/2020	19.4	7.78	362.2	5.39	166.0	1.88
	Q4 2019	10/22/2019	19.9	8.01	427.6	5.4	384.2	1.11
KAFB-106059	Q2 2020	5/6/2020	20.4	6.96	566	0.13	-256.6	7.33
	Q4 2019	10/21/2019	18.4	6.59	1029.0	3.37	-68.9	4.88
KAFB-106060	Q2 2020	4/20/2020	18.6	7.68	792	5.90	295.5	0.42
	Q4 2019	10/11/2019	18.5	7.13	993.0	0.49	159.6	0.27
KAFB-106061	Q2 2020	4/27/2020	22.3	7.63	349.3	3.18	138.1	5.99
	Q4 2019	11/5/2019	19.2	7.84	282.1	2.69	362	6.14
KAFB-106062	Q2 2020	4/21/2020	19.2	7.78	376.0	3.97	141.0	2.57
	Q4 2019	10/14/2019	18.6	7.18	369.0	6.89	115	0.56
KAFB-106063 <sup>a</sup>	Q2 2020	5/19/2020	18.9	6.90	NA	0.13	-168.6	1.98
KAFB-106064 <sup>a</sup>	Q2 2020	5/19/2020	18.3	6.81	NA	0.05	-193.6	4.84
KAFB-106065	Q2 2020	4/22/2020	17.0	7.27	677	0.22	7.7	7.15
	Q4 2019	10/11/2019	14.9	6.8	693	8.05	82.1	1.39
KAFB-106066	Q2 2020	4/22/2020	17.0	7.84	381.6	4.26	175.6	0.76
	Q4 2019	10/10/2019	16.4	7.44	374.7	6.52	360.8	0.54
KAFB-106067	Q2 2020	4/21/2020	18.2	7.33	559.2	0.20	35.9	2.22
	Q4 2019	10/14/2019	19.0	7.26	671	0.27	-47.9	2.39
KAFB-106068	Q2 2020	4/20/2020	18.3	7.57	380.0	4.75	303.4	6.13
	Q4 2019	10/11/2019	18.7	7.77	413.1	4.94	229.2	2.05
KAFB-106069	Q2 2020	4/23/2020	20.7	7.59	540.8	2.55	238.6	1.88
	Q4 2019	10/16/2019	17.3	7.5	475.1	4.06	93.7	0.99
KAFB-106073	Q2 2020	4/30/2020	20.2	7.67	555	0.84	139.0	1.15
	Q4 2019	10/17/2019	19.8	7.51	439.9	4.35	85	4.72
KAFB-106074	Q2 2020	4/30/2020	21.8	7.75	450.6	3.44	162.2	1.53
	Q4 2019	10/22/2019	17.5	7.96	651	3.84	394.3	0.52
KAFB-106075	Q2 2020	4/20/2020	18.3	7.63	629	0.30	158.4	0.62
	Q4 2019	10/14/2019	17.8	7.36	675	0.58	60.6	3.32
KAFB-106076	Q2 2020	4/28/2020	24.2	7.49	454.2	0.18	-242.7	23.7
	Q4 2019	10/16/2019	21.3	7.37	467.6	1.07	-171.3	26.2

Table E-3-1
Water Quality Field Measurements for the Current and Previous Three Quarters

Well Location ID	Sample Quarter	Sample Date	Temperature (°C)	pH (S.U.)	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
KAFB-106077	Q2 2020	4/27/2020	21.5	7.78	387.0	3.28	133.2	1.60
	Q4 2019	10/18/2019	20.4	7.76	383.7	3.13	369.3	0.8
KAFB-106078	Q2 2020	4/21/2020	19.8	7.82	360.9	1.89	235.6	5.02
	Q4 2019	10/15/2019	19.8	7.75	338.1	2.26	96.3	4.1
KAFB-106079	Q4 2019 Q4 2020	10/13/2019	18.7	7.73	1197	1.54	-74.9	5.11
KAFB-106080	Q2 2020	4/23/2020	18.4	6.99	1,327	0.25	-18.0	1.31
	Q4 2019	10/16/2019	18.5	7.0	1377	0.23	-45.3	2.09
KAFB-106081	Q2 2020	4/29/2020	22.0	7.58	350.9	5.08	170.6	1.06
	Q4 2019	10/18/2019	20.1	7.87	364.4	4.47	364.6	1.63
KAFB-106082	Q4 2019 Q2 2020	4/28/2020	23.6	7.46	582	1.48	127.2	0.39
100002	Q2 2020 Q4 2019	10/18/2019	19.3	7.51	557.7	2.97	45.6	3.07
KAFB-106083	Q4 2019 Q2 2020	4/28/2020	20.0	7.83	491.4	0.71	97.1	1.52
10 ti B-100000	Q2 2020 Q4 2019	10/18/2019	18.6	7.76	431	4.54	4.4	8.79
KAFB-106084	Q4 2019 Q2 2020	4/28/2020	22.6	i e	366.0		150.6	1.25
10 ti B-100004	Q2 2020 Q4 2019	10/22/2019	16.2	7.78 8.06	421.8	3.31 3.42	381.2	0.45
KAFB-106094	Q4 2019 Q2 2020	4/21/2020	18.6					
NAI B-100094				7.46	511.4	0.20	59.1	1.48
KAFB-106095	Q4 2019	10/14/2019	19.1	7.23	563.1	0.35	35.7	4.57
NAI B-100033	Q2 2020	4/29/2020	21.8	7.67	469.9	2.28	148.0	4.39
KAFB-106096	Q4 2019	10/21/2019	19.1	7.74	451.4	2.36	350.9	0.68
NAI B-100090	Q2 2020	5/8/2020	19.4	7.76	357.5	4.23	134.7	5.11
KAFB-106097	Q4 2019	10/10/2019	18.7 19.9	7.46	369.2	6.99	301.8	3.98
NAI D-100091	Q3 2020	7/16/2020		7.63	395.6	2.97	349.1	0.37
	Q2 2020	5/1/2020	20.5	7.70	496.2	2.77	134.1	0.96
	Q1 2020	1/15/2020	17.8	7.86	455.0	3.22	357.3	0.29
KAFB-106098	Q4 2019	10/23/2019	19.1	7.65	445.3	2.88	108.9	0.68
NAFD-100090	Q3 2020	7/15/2020	21.4	7.75	435.5	3.38	209.9	0.75
	Q2 2020	5/1/2020	19.3	7.44	440.1	3.32	165.5	0.73
	Q1 2020	1/15/2020	18.2	7.90	380.9	3.10	354.5	0.59
KAFB-106099	Q4 2019	10/23/2019	19.6	7.69	420.3	3.07	92.8	1.63
NAFD-100099	Q3 2020	7/16/2020	21.0	7.71	372.6	5.59	319.2	0.69
	Q2 2020	5/5/2020	19.6	7.79	363.8	6.06	164.6	1.23
	Q1 2020	1/16/2020	17.0	7.95	412.0	6.12	370.5	2.43
KAFB-106100	Q4 2019	10/24/2019	18.4	7.92	453.7	5.92	253.2	0.15
KAFB-100100	Q3 2020	7/16/2020	22.1	7.74	331.7	2.96	328.9	0.79
	Q2 2020	5/5/2020	19.1	7.81	331.4	2.75	162.5	1.18
	Q1 2020	1/16/2020	14.4	8.01	378.7	2.31	292.3	0.82
KAFB-106101	Q4 2019	10/24/2019	18	7.99	398.4	2.42	253.1	0.49
NAFD-100101	Q3 2020	7/15/2020	19.7	7.68	432.4	6.11	345.2	0.82
	Q2 2020	5/4/2020	19.6	7.79	398.9	5.35	158.4	2.91
	Q1 2020	1/17/2020	16.3	7.93	488.8	5.17	386.5	0.81
KAER 106100	Q4 2019	10/28/2019	16.5	7.93	386.3	5.62	373.0	0.73
KAFB-106102	Q3 2020	7/15/2020	20.1	7.78	327	3.25	337.9	0.93
	Q2 2020	5/4/2020	20.7	7.79	328.3	2.17	160.2	1.28
	Q1 2020	1/17/2020	17.1	8.00	396.7	2.13	401.9	0.38
	Q4 2019	10/28/2019	16.9	7.96	322.4	2.27	356.3	0.65

Kirtland AFB BFF Quarterly Report – July-September 2020 SWMUs ST-106/SS-111

Table E-3-1
Water Quality Field Measurements for the Current and Previous Three Quarters

Well Location ID	Sample Quarter	Sample Date	Temperature (°C)	pH (S.U.)	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
KAFB-3411	Q2 2020	4/24/2020	20.0	7.87	365.0	3.02	261.1	1.17
	Q4 2019	10/17/2019	21.9	7.71	444.2	1.14	331.2	0.45

<sup>&</sup>lt;sup>a</sup> Specific conductance not collected at this location.

μS/cm = microSiemens per centimeter

DO = dissolved oxygen

ID = identification

mg/L = milligram per liter

NA = not applicable

mV = millivolt

NTU = nephelometric turbidity unit

ORP = oxidation reduction potential

Spec. Cond. = specific conductivity

S.U. = standard unit

<sup>°</sup>C = degrees Celsius

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ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SMZSZUB) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane	,	СОММЕ	NTS		
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ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	Alkalinity (Total, Carbonate, a Bicarbonate)	(SM2	(RSK-175)	(RSK-175) Methane					
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PROJEC ST106/S	CT SITE AND PHASE: SS111		Lab PO Number:	14800				LA	B CON	TACT: K	Kay How	er K	ayHow	er@eurofinsU	S.com	E	rofins 1 (717) 556-7258	8		
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ITEM	SAMPLE II	DENTIFIER (	PATE COLLECTED	TIME COLLECTED	Total Num			(8260C) BTEXN		Total (As	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	T	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane		COMMENTS		
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СОММЕ	NTS: *Dissolved Fe, Mn aliqi	ot was field fillered																		, Table 1
Por	up SN: 180 R(S)! D. Schm	78-902																	TB203-	27
SAMPLE	R(S)! D. Schus	eelk						CC	URIER	AND SH	HIPPING	NUMBE	R: Fe	edEx \$	155	2	830 0169		, , ,	
		RELINQUISHED BY:			DATE		TIME							RECEIVED			030		ATE	TIME
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	49	225 Schiling Circle Suite 400 Hunt Valley MD			HA	IN	-()	F-(	CL	IST		YC	RF	ECOF	3D			C	OC NUME	BER
		Tel No: (410) 584-7000 Fax No. (410) 771-1625		0	/ 1 1/	711 4		. `		,		'	1 1 1					C	OC-009-	-203
PROJEC		PROJECT NUMBER:		NAME AND CONTACT				FAX	X AND I	MAIL RE	PORTS/				mond@ nith@ea			YEAR:	20	20
Facility	AFB Bulk Fuels	62599DM01		caster Laboratorie Iand Pike Lancast		7601		FAX	X AND	MAIL RE	PORTS/				oss@ea	THE PARTY NAMED IN COLUMN		QUARTER:	3 (Jul	-Sep)
PROJEC ST106/S	T SITE AND PHASE:		Lab PO Number:	14800				LAE	3 CONT	TACT: K	ay Howe	r Ka	ayHowe	er@eurofinsUS	S.com	Ε	Eurofins 1 (717) 556-72	258		
0110010					AN	ALYS	IS RE	QUIRI	ED (S	pecify	numbe	er of bo	ttles)				3-14-5-4-19-4-18-18-18-18-18-18-18-18-18-18-18-18-18-			
ITEM	SAMPLE I	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane		COMMENT	S	
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COMME	NTS: 'Dissolved Fe, Mn alid	quot was field filtered																	TB203	-15
SAMPLE	R(S): D. Schwe	ook						C	OURIER	R AND S	HIPPING	NUMBE	R: F	edEx 🐔	315	5	2830	0180		
		RELINQUISHED BY:			DATE		TIME		inted M	lama an	Signatu	ro:		RECEIVED					DATE	TIME
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Printed N	lame and Signature:						_	inted N	lame and	Signatu	re:									
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	DDQ IE		Tel No: (410) 584-7000 Fax No. (410) 771-1625				7111	1-0	/  -		0	10	υĭ	n:	=60	HL	)			12R-203
	Kirtlan	CT NAME: d AFB Bulk Fuels	PROJECT NUMBER: 62599DM01		NAME AND CONTAC				FA	AX AND	MAIL R	EPORTS	S/EDD TO			_	eaest.co		YEAR:	The second secon
	Facility			2425 New Hol	land Pike Lancast	er PA	17601		FA	AX AND I	MAIL R	EPORTS	S/EDD TO	: Pam I		and the same of the same of	aest.com		QUARTER:	2020
	PROJEC	CT SITE AND PHASE:		Lab PO Number:	14800				1.0	AB CONT	ACT. I	Kay Haw				_			3	(Jul-Sep)
	ST106/S	55111				Δ.Ν.	IALVO	10 DE							er@eurofinsU	S.com	Eu	rofins 1 (717) 556-7258		
							ALYS	IS RE	QUIH	ED (S	pecity	/ numb	er of bo	ottles)	T	-	Т Т		0.0111111111111111111111111111111111111	
	ITEM	SAMPLE ID	DENTIFIER [	PATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane		COMMENTS	
	1	GW012F	R-203	7-14-2020	1240	24	_	9		6	3	3*	1	1	1			Please see Commer	nts for requested N	MS/MSD analytes
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- 1		ITS: *Dissolved Fe, Mn alique												-				The state of the s		
	VOC	se run MS/MSD or s/BTEX/BTEXN, E	n the following ana EDB, Total As and	lytes only: Pb, and diss	solved Mn and	d Fe														
0	AMPLER	Pump 5	N:1807B-	752															TB2	203-28
3	HWIFLEN	D. Schne	elk.						co	URIER	ND SH	HIPPING	NUMBER	Fe	dEx Si	155	29	830 015		
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L	Particular Section Section 1999																***************************************			

			225 Schiling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000		(	СН	All	V-C	)F.	-CI	IS	TO	וחו	/ D	ECC	DI	<u> </u>		000	WINDER.	
	PROJE	ECT NAME:	Fax No. (410) 771-1625 PROJECT NUMBER:	14000						01		1	וטו		ECC	HL	J		A STATE OF THE PARTY OF THE PAR	NUMBER >	
	Kirtla Facili	nd AFB Bulk Fuels	62599DM01	Eurofins I an	NAME AND CONTA	CT:		-	F	AX AN	D MAIL I	REPOR	TS/EDD	TO: Tare	Lamond: 1	lamondo	@eaest.c	On the PA	COC-0	12R-208	60
	raciii	ty		2425 New Ho	Iland Pike Lanca	ies ster PA	17601		- 1				TS/EDD	Ama	nde Coulst.	smith@	eaest.co	m EA	YEAR:	2020	-
	PROJE	ECT SITE AND PHASE:							ľ	AA ANL	J WIAIL I	TEPOH	S/EDD	O: Pam	Moss: p	moss@e	eaest.co	m EA	QUARTER:		-
	ST106/	'SS111		Lab PO Number	: 14800	******	-	-	L	AB CON	STACT:	Kay Ho	wer	KavHov	ver@eurofinsl	10				(Jul-Sep)	1
						ΔΙ	JAI V	ele pr	1							JS.Com	8	Eurofins 1 (717) 556-7258	8		-
				And the state of t				JIO RE	COUL	TED (S	Specif	y num	ber of	bottles	)						
8	ITEM	SAMPLEIDE	ENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VQCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane	,	COMMENTS		The same of the sa
+	1	GW012R	-203	7-14-2020	1240	24					=	L			ο.						-
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CC	MMEN	ITS: *Dissolved Fe, Mn aliquot	The same of the sa								- 1										-
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1	OC	e run MS/MSD on	the following anal	ytes only:																	
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	(9)	225 Schiling Circle Suite 400 Hunt Valley MD			\L/	111	10		$\bigcirc$	107		DV		ECO		`			T	COC NUM	/BER
		Tel No: (410) 584-7000 Fax No. (410) 771-1625			111/	<del>1</del> 111	4-0	/I		10		υY	ME		HL	,			C	OC-013	3-203
	CT NAME:	PROJECT NUMBER:		NAME AND CONTACT				FA	X AND	MAIL RE	EPORTS	S/EDD TO				Deaest.co			YEAR:		020
Facility		62599DM01		aster Laboratorie land Pike Lancast		17601		FA	X AND	MAIL RE	EPORTS	S/EDD TO				aest.com			QUARTER:		
PROJEC	CT SITE AND PHASE:		Lab PO Number	14000																3 (Ju	ul-Sep)
ST106/9			Lab PO Number	14800	·					TACT: F				r@eurofinsU	S.com	E	urofins 1	(717) 556-725	58		
					AN	IALYS	SIS RE	QUIR	ED (S	Specify	numb	per of bo	ottles)				T				
ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane			COMMEN	TS	
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	AMARIA (I)	225 Schilling Circle Suite			N 1 1 8	18.				ОТ		71/		00				C	OC NUMBE	R
		400 Hunt Valley MD Tel No: (410) 584-7000		(	$\mathcal{H}^{\mu}$	VIIV	-0	<b> (</b>		51	Ol	JΥ	HE	CO	חח			CC	C-029-2	203
		Fax No. (410) 771-1625	LABORATORYN	AME AND CONTAC	т.			FA	X AND N	MAIL RE	PORTS/	EDD TO:	Tara La	amond: tla	amond@	eaest.co		YEAR:	202	
PROJEC	T NAME: I AFB Bulk Fuels	PROJECT NUMBER: 62599DM01	Furofins Lanc	aster Laboratori	es								Amanda	a Smith: as	mith@ea			QUARTER:		
Facility	ALP Dark Lacis	02000	2425 New Holl	and Pike Lancas	ster PA 1	7601		FA	X AND N	MAIL RE	PORTS	EDD TO:	Pam N	ioss: pi	nosswea	1051.0011			3 (Jul-	Sep)
			Lab PO Number:	14800				LAI	B CONT	ACT: K	ay Howe	er Ka	ayHowe	r@eurofinsl	S.com	Eu	urofins 1 (717) 556-72	258		
PROJEC ST106/SS	T SITE AND PHASE: S111		Lab i o ilambori			11110	10.05	OLUD	ED /0	nacify	numh	or of ho	attles)		T					
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ITEM	SAMPLE I	DENTIFIER	DATE COLLECTED	TIME COLLECTE	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane				
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		400 Hunt Valley MD Tel No: (410) 584-7000 Fax No. (410) 771-1625		C	ПА	111/1	-0	r-(		0 1	OI	וע	ΠL			10				C-030-2	203
PROJEC	T NAME:	PROJECT NUMBER:		AME AND CONTACT				FAX	( AND N	MAIL RE	PORTS	/EDD TO	: Tara La			mond@e nith@ea			YEAR:	202	0
Kirtland Facility	AFB Bulk Fuels	62599DM01	Eurofins Lance 2425 New Holl	aster Laboratories and Pike Lancaste	er PA 1	7601		FAX	K AND N	MAIL RE	PORTS	/EDD TO		COLUMN TO STREET, THE PARTY NAMED IN	-	oss@ea	-		QUARTER:	3 (Jul-	Sep)
	T SITE AND PHASE:		Lab PO Number:	14800				LAE	3 CONT	ACT: F	(ay How	er K	ayHowe	er@eur	rofinsUS	S.com	Eu	rofins 1 (717) 556-725	3		
ST106/S	5111				ANA	ALYSI	SREC	QUIRE	ED (S	pecify	numb	er of b	ottles)								
					=					7		C)		-	1				COMMENTS		
ITEM	SAMPLE I	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(Lotal, Carbonate, and Bicarbonate)	(SM2320B) Alkalinity	(RSK-175) Carbon Dioxide	(RSK-175) Methane				
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	*		CHAIN-OF-CUSTODY RECORD															COC NUMBER						
2221		Tel No: (410) 584-7000 Fax No. (410) 771-1625							FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA												DC-031	-203		
Kirtland AFB Bulk Fuels 62599DM01			arrangement .	LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories							EPORTS	S/EDD TO	YE	AR:	20	20								
Facility	1											S/EDD TO	QI	JARTER:	3 (Jul	-Sep)								
PROJEC ST106/S	CT SITE AND PHASE: S111		Lab PO Number:	14800			LA	LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-725												8				
		QUIRI	UIRED (Specify number of bottles)																					
ITEM	ITEM SAMPLE IDENTIFIER		DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane			C	COMMENT	S			
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	*		CHAIN-OF-CUSTODY RECORD															COC NUMBER			
Fax No. (410) 771-1625											***************************************			COC-032-203							
	of Name:	NOTE OF THE PARTY	LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories							EPORTS	S/EDD TO	YEAR	l:	2020	)						
Facility		62599DM01								Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA										3 (Jul-S	ep)
PROJECT SITE AND PHASE: Lab PO Number: 14800 L							LAB	CONT	TACT: K	ay How	er K	CayHowe	er@eurofin	US.com	Е	urofins 1 (717) 556-	7258				
		QUIRE	UIRED (Specify number of bottles)																		
ITEM	ITEM SAMPLE IDENTIFIER		DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide (SM23208)	(RSK-175) Methane		COM	MENTS		
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	PROJECT SITE AND PHASE: Lab PO Number: 14800 L								B CON1	TACT: F	(ay How	er K	ayHowe	er@eurofinsU	S.com	E	urofins 1 (717) 556-7258	3										
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Facility	d AFB Bulk Fuels	62599DM01		aster Laboratorie land Pike Lancast		17601		FΔ	X AND I	MAII R	EPORTS	S/EDD TO			PERSONAL PROPERTY AND ADDRESS.	eaest.com			2020
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ITEM	SAMPLE ID	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide	(RSK-175) Methane		COMMENTS	
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			2425 New Hol	land Pike Lancas	ter PA	17601		FA	X AND	MAILR	EPORTS	S/EDD TO	: Pam	Moss:			est.com est.com		QUARTER		ul-Sep)
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		Tel No: (410) 584-7000 Fax No. (410) 771-1625				4111	1-C	)ー-		15	10	DY	K	ECO	RD	)		COC N		
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Facility	AFB Bulk Fuels	62599DM01	Eurofins Land 2425 New Ho	caster Laboratorie lland Pike Lancas	es tor DA	17601							Amano	da Smith: as	mith@e	aest.com	ı EA	YEAR:	2020	)
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ST106/SS	SITE AND PHASE: 111		Lab PO Number	: 14800				LA	B CON	TACT: I	Kay How	ver h	ayHowe	er@eurofinsU	S.com	Et	urofins 1 (717) 556-7258			
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BBO IE	CT NAME:	Fax No. (410) 771-1625						•	-	, _			1 (1	_00	H I. S					CO	C-101-	-203
	d AFB Bulk Fuels	PROJECT NUMBER: 62599DM01	Eurofins Land	NAME AND CONTAC	s				***			S/EDD TO	Aman	da Smith: a	lamond( smith@				YEA		20:	-
				land Pike Lancast	er PA	17601		FA	IX AND	MAIL R	EPORTS	S/EDD TO	: Pam	Moss: p	moss@	eaest.co	m EA		QUA	ARTER:	3 (Jul-	-Sep)
ST106/S	CT SITE AND PHASE: SS111		Lab PO Number:	14800				LA	B CONT	TACT: I	Kay How	er K	ayHow	er@eurofins	JS.com	1	Eurofins	1 (717) 556-	7258			
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ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide	(RSK-175) Methane	100 ATD	e e e e e e e e e e e e e e e e e e e	CC	DMMENTS		
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	CT NAME: d AFB Bulk Fuels	PROJECT NUMBER: 62599DM01	- Control Control	NAME AND CONTACT				FA	X AND	MAIL RI	EPORTS	/EDD TO:	: Tara La	amond: tla	mond@	eaest.co	m EA	YEAR:		75
Facility		62599DM01	2425 New Hol	aster Laboratorie land Pike Lancast	er PA 1	7601		FA	X AND	MAIL RI	EPORTS	/EDD TO:				aest.com		QUARTER:	2020	
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ST106/	CT SITE AND PHASE: SS111		Lab PO Number	: 14800				LA	AB CON	TACT:	Kay Hov	ver l	KayHow	er@eurofinsl	JS.com	E	urofins	1 (717) 556	6-7258			
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ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Num	(8260C) VOCs				Total (As	T	5	(353.2) Nitrate-Nitrite	(Το	Carbon Dioxide	(RSK-175) Methane			(	COMMENTS	}	
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		Tel No: (410) 584-7000 Fax No. (410) 771-1625			/ 1 1/	X 1 1 W				, ,			8 K.L.		<b>O</b> 1	11					COC	C-153-	484-	203
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DDO IE		Tel No: (410) 584-7000 Fax No. (410) 771-1625						•					1 11	_00						CO	C-201	-203
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			2425 New Hol	land Pike Lancas	ter PA 1	7601		FA	X AND	MAIL RI	EPORTS	S/EDD TO	:Pam I	Aoss:	pmos	s@ea	est.com	EA	QUAF	RTER:	3 (Jul	-Sep)
PROJEC ST106/S	CT SITE AND PHASE: SS111		Lab PO Number	: 14800				LA	B CONT	TACT: H	Kay How	ver K	ayHowe	r@eurofii	nsUS.c	om	Eu	rofins 1 (717) 556-725	58			
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ITEM	SAMPLE IC	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)	(RSK-175)	(RSK-175) Methane		COM	MMENTS		
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ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTE	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SMZ3ZUB) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane			COMMENT	rs	,
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31100/3	3111				AN	ALYS	IS RE	QUIRE	ED (S	pecify	numb	er of bo	ottles)								
ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane			COMMENTS		
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CHAIN-OF-CUSTODY RECORD  COO NUMBER  COC 208-203  COC 208		**	225 Schiling Circle Suite 400 Hunt Valley MD			,П,	111	10	) [	CI	10	TO	DV		-00	7						COC	NUME	FR
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1	T NAME:	PROJECT NUMBER:		AME AND CONTACT				FAX	AND M	AIL RE	PORTS	EDD TO:	Tara La				aest.com			YEAR:	20	20
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ITEM	SAMPLE IC	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)	(RSK-175)	(RSK-175) Methane							,
1	GW218	3-203	7-7-2006	0848	2				2												-			
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COMME																								
				¥																	TE	3203-	05	
SAMPLE	ER(S): D. Schn	eelk						CC	OURIEF	RANDS	HIPPIN	3 NUMBE	R: F	edEx	8	15	5	2830	02	60				
		RELINQUISHED BY:			DATE		TIME		lated M		d Signat			RECEIV	ED BY	:					DAT	E	TME	
Printed N	Name and Signature:  D. Schnele	K SI	7-7	7-28	20	1600		inted iv	ane an	Joigna	116.					and complete planets for the			State of the Control					
Printed N	Name and Signature:							Pr	inted N	ame and	d Signati	ıre:												
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		225 Schiling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000			H	AIN	1-0	F-	CI	IS-	TO	DV	RI	ECO	ВГ	)		COC	NUMBER
PROJEC	T NAME:	Fax No. (410) 771-1625 PROJECT NUMBER:	LABORATORY												111			COC	222-203
	AFB Bulk Fuels	62599DM01	Eurofins Land	NAME AND CONTAC caster Laboratorie	96			FA	AX AND	MAIL R	EPORTS	S/EDD TO				eaest.con		YEAR:	THE RESERVE THE PARTY OF THE PA
Facility			2425 New Hol	land Pike Lancas	ter PA	17601		FA	AX AND	MAIL RI	EPORTS	EDD TO	: Pam			eaest.com	EA EA	QUARTER:	2020
PROJEC	T SITE AND PHASE:		Lab PO Number:	14800													271	QUARTER:	3 (Jul-Sep)
ST106/SS	5111				-						Kay How			er@eurofinsL	JS.com	Eur	ofins 1 (717) 556-725	8	
				T	AN	ALYS	IS RE	QUIR	ED (S	pecify	numb	er of bo	ottles)		Ť				
ITEM	SAMPLEID	ENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SM2320B) , Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane		COMMENTS	
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	GW222	-203	7-7-2020	0950	2	_		Constituted B	2	-									
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AMPLER(S	S): D <	0111 (7	12					COL	JRIER /	AND SHI	IPPING I	NUMBER						TB2	203-06
	D. JENNE	ELINOVISHED BY:	egryc	1 0	ATE		TIME					TOTALLITA	Fe	dEx 8	155	28	30 02	71	
nted Nam	ne and Signature:	,	1	2	MIE		HIVE	Prin	ted Nan	ne and S	Signature	:		RECEIVED	BY:			DATE	TIME
1	2. Schule	K 4/	1	7.7	-200	200	160			A CONTRACTOR OF THE PARTY OF TH		-				-			
nted Nam	ne and Signature:		m.	1/-1	200	e	10-		led Nam	o and S	ignature			-					
								1.741	ou radii	o and S	y rature								
nted Nam	e and Signature:						-	Deiter	ad Na	10:		-			-				
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		Tel No: (410) 584-7000 Fax No. (410) 771-1625		C	1 1/-	VII V	-01	-(		0	OL	<i>)</i>	1 1 1	_00				CO	C-223-	203
PROJEC	T NAME:	PROJECT NUMBER:	LABORATORY N	AME AND CONTACT	:			FA)	X AND I	MAIL RE	PORTS/	EDD TO:			mond@e			YEAR:	202	20
Kirtland Facility	AFB Bulk Fuels	62599DM01	Eurofins Lanc 2425 New Holl	aster Laboratories and Pike Lancaste	er PA 1	7601		FAX	X AND I	MAIL RE	PORTS/	EDD TO:	-	a Smith: as Noss: pri	niin@ea ioss@ea		EA	QUARTER:	3 (Jul-	Senl
acinty																			0 (001	оср)
PROJEC ST106/S	T SITE AND PHASE:		Lab PO Number:	14800			•	LAE	B CONT	FACT: K	ay Howe	er K	ayHowe	er@eurofinsU	S.com	Eu	rofins 1 (717) 556-725	58		
31100/3	3111				AN	ALYS	IS REC	QUIR	ED (S	pecify	numbe	er of bo	ottles)			,				
ITEM	SAMPLE I	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SMZ320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane		COMMENTS		
1	GW223	3-203	7-7-2020	0935	2	Name and Address of the Owner, where the Owner, which is the Owner, which is the Owner, where the Owner, which is the Owner		maga NO	2										-	
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COMME	NTS:																			
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																			TB203-	.06
SAMPLE	ER(S): D S	hneelk						C	OURIE	R AND	SHIPPING	g numbe	ER: F			55	2830 0			
	<u> </u>	RELINQUISHED BY:			DATE		TIME		-1-4- d h		d Signate			RECEIVE	DBY:				DATE	TIME
Printed I	Name and Signature:	11.	75	5 0	7 00	00	100	-	meur	variie aii	u Signat	u16.								,
		eelk 3		/, /	7-20	20	160		rinted N	Vame an	d Signati	ure:		400						
Printed I	Name and Signature:					T			THREO I	TATTIO ALI	- Orginali									
		-						- In	rinted N	Nama an	d Signati	nre.								
Printed	Name and Signature:							- P	THIEG I	value all	a Orginali	uro.			-				AMERICAN CONTRACTOR OF STREET	

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		Tel No: (410) 584-7000 Fax No. (410) 771-1625		O		III A		1 -					1 11	_00				C	OC-224	1-203
	T NAME:	PROJECT NUMBER:		AME AND CONTACT				FA	X AND I	MAIL RE	PORTS	S/EDD TO				eaest.co		YEAR:	20	020
Kirtland	d AFB Bulk Fuels	62599DM01		aster Laboratories and Pike Lancaste		7601		FA	X AND I	MAIL RE	PORTS	S/EDD TO			THE RESERVE AND ADDRESS OF THE PARTY OF THE	est.com		QUARTER:	3 / 1	ıl-Sep)
																			3 (00	11-0ep)
PROJEC ST106/S	T SITE AND PHASE:		Lab PO Number:	14800				LAI	B CONT	TACT: K	(ay How	er K	ayHowe	er@eurofinsU	S.com	Ει	rofins 1 (717) 556-7	7258		
					ANA	LYSI	SRE	QUIR	ED (S	pecify	numb	er of bo	ottles)							
ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane		COMMEN	TS	
1	GW224	1-203	7-7-2020	0915	2			_	2	-										
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3	GW224-203 7-7-2020 0915 2 2																			
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COMME	NTS:						l			1		I	1							
						w 800 W 20 800000000						0.14.14.00							TB203	3-06
SAMPLE	ER(S): D. Sahme	relk						C	OURIER	AND S	HIPPIN	G NUMBE	F			5	2830	0271		
Drintod I	Name and Signature:	RELINQUISHED BY:			DATE		TIME		rinted N	ame and	d Signat	ure:		RECEIVED	BY:				DATE	TIME
Printed	D.S.h.w	reelk (	ê, h	7-1	7-20.	20	160													
Printed I	Name and Signature:						***************************************	Pr	rinted N	ame and	Signat	ure:								
Printed I	Name and Signature:							Pr	rinted N	ame and	Signat	ure:								
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		225 Schiling Circle Suite 400 Hunt Valley MD			HA	IN	-()	F-(	7115	ST		YC	RF	ECC	RI	)				COC	NUMBE	ER .
		Tel No: (410) 584-7000 Fax No. (410) 771-1625				4 I I W		'	) (	·	<u> </u>	- 1			/ I LL					COC-	230-2	203
	T NAME: d AFB Bulk Fuels	PROJECT NUMBER:		IAME AND CONTACT				FAX	AND MA	IL RE	PORTS	EDD TO			tlamond			EA EA	YEAR:		202	0
Facility		62599DM01		aster Laboratorie land Pike Lancast		7601		FAX	AND MA	IL RE	PORTS	/EDD TO			pmoss@	-	-	EA	QUAR	TER:	0 / 1, 1 0	2on)
														*****							3 (Jul-9	seb)
ST106/S	T SITE AND PHASE: S111		Lab PO Number:	14800				LAB	CONTAC	CT: Ka	ay Howe	er K	ayHow	er@eurofin	sUS.com		Euro	ofins 1 (717) 556-7	258			
					ANA	LYSI	SREC	QUIRE	D (Spe	ecify	numb	er of bo	ottles)									
ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) (8018)	(6020A/6010C)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide (SM2320B)	(RSK-175)	(RSK-175)		COM	MENTS		
1	GW230	)-203	7-8-2020	0809	7	-			2	1	1*	1	1	1								
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СОММЕ	NTS: *Dissolved Fe, Mn aliq	uot was field filtered					A										and the second			TE	3203-	1 (
SAMPLE	R(S): D 5 1	weelk.						CO	URIER A	ND SH	HIPPING	NUMBE	R: F	edEx	815	5	29	330 0	319	eta das nasi mesenia sa ani/mesene menerata		
		RELINQUISHED BY:			DATE		TIME							RECEIV	ED BY:		0.1		711	DATE		TIME
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	D. Schme	relk 5	mo	人 7-8	-200	0 1	70C															
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		Tel No: (410) 584-7000 Fax No. (410) 771-1625													•	1 1						CC	C-231	-203
	CT NAME: d AFB Bulk Fuels	PROJECT NUMBER: 62599DM01	-	NAME AND CONTACT aster Laboratorie				FA	X AND I	MAIL RE	EPORTS	/EDD TO		amond: la Smith:			eaest.co		EA EA		YEA	AR:	2	020
Facility	1		2425 New Hol	land Pike Lancast	er PA 1	7601		FA	X AND I	MAIL RE	PORTS	/EDD TO			THE STATISTICS AND	market and a facilities of the	est.com		A		QUA	ARTER:	3 (Ju	ıl-Sep)
PROJEC ST106/S	CT SITE AND PHASE: SS111	-	Lab PO Number:	14800				LA	B CONT	FACT: H	ay How	er K	ayHowe	er@eurofi	insUS.	.com	E	urofins	1 (71	7) 556-7	258	and the second second second second		
					AN	ALYS	IS RE	QUIR	ED (S	pecify	numb	er of bo	ttles)	***************************************										
ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(Total, Carbonate, and Bicarbonate)	(SM2320B)	(RSK-175) Carbon Dioxide	(RSK-175) Methane				CC	DMMENTS	5	
1	GW231	-203	7-7-2020	1128	2	-			2	_														
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COMME	NTS:											***************************************							***************************************	***************************************				
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SAMPLE	IR(S): D. Sch	()-(			-	****	-	CC	DURIER	AND S	HIPPING	NUMBE	R: E	edEx	2	150		28	20	^2	192		10203	/
	1. 3ch	RELINQUISHED BY:			DATE		TIME	_					1 6	RECEI				20	20	02	- 02		DATE	TIME
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	D. Schme	7-20	20 1	600																				
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Printed N	lame and Signature:				-			Pri	nted Na	me and	Signatu	re:				***************************************			A manufactura de la m					
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		Fax No. (410) 771-1625																	COC-2	232-2	203
	CT NAME: d AFB Bulk Fuels	PROJECT NUMBER: 62599DM01		NAME AND CONTACT caster Laboratorie				FA	X AND N	MAIL R	EPORTS.	/EDD TO				eaest.c			YEAR:	2020	0
Facility		02399DW0 I		lland Pike Lancast		7601		FA	X AND N	MAIL R	EPORTS.	/EDD TO				eaest.com			QUARTER:		
																			3	(Jul-S	Sep)
PROJEC ST106/S	CT SITE AND PHASE: SS111		Lab PO Number	: 14800				LAE	B CONT	ACT: Ł	(ay Howe	er K	ayHowe	er@eurofins	JS.com	Е	urofins 1 (717) 55	6-7258			Accessed to the second second
					ANA	ALYSI	S RE	QUIRI	ED (S	pecify	numb	er of bo	ttles)							-	
ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs .	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-1/5) Carbon Dioxide	(RSK-175) Methane			COMMENTS		
1	GW232	-203	7-7-2020	1144	2				2	tomas											
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																			TB2	203- (	07
SAMPLE	R(S): D. Sahm	elK						co	URIER	AND SI	HIPPING	NUMBER	R: Fe	edEx 2	3/5	5 ;	2830	028			
Delega 15		RELINQUISHED BY:		DATE	<u> </u>	TIME							RECEIVED					DATE		TIME	
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Drinted &	D.5 chruce	IK a	Mi	101	-707	010	600														
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	and orginalars.							FOI	neu mar	ne and	oignatur	υ.	***************************************		Access and a second and a second						
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		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No. (410) 771-1825		C	H	411	1-C	F-	CL	JS	ГО	DY	R	ECO	RE	)				COC NUN	
PROJECT Kirtland Facility	NAME: AFB Bulk Fuels	PROJECT NUMBER: 62599DM01	Eurofins Land	NAME AND CONTAC caster Laboratorie lland Pike Lancas	es	17601						S/EDD TO	Aman	da Smith: a	smith@e	eaest.con	n EA		YEAR: QUARTER:	2	138-203 020 ul-Sep)
PROJECT ST106/SS	SITE AND PHASE:	and the second s	Lab PO Number	: 14800				LA	B CON	TACT:	Kay Hov	ver	KayHow	er@eurofinsl	JS.com	. Е	urofins 1 (717)	556-7258		3 (01	ur-Gep)
					AN	IALYS	IS RE	QUIR	ED (S	Specify	numl	ber of b	ottles	)	T						
ITEM	SAMPLE IC	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Num	(8260C) VOCs	(8260C) BTEX			Total (As		Chloride	N.	(To	(RSK-1/5) Carbon Dioxide	(RSK-175) Methane			COMMENT	S	
1	GW235-4	38-203	7-6-2020	0878	2	-			2	_											
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		RELINQUISHED BY:			DATE	-	TIME	-	-	-			F	edEx RECEIVED		) )	2830	01/		DATE	TIME
	ne and Signature:	eelk G	Ins	L 7-6	-202	20 1	320	montorium e estrare	nted Na	ame and	Signatu	ire:									11776
Printed Nan	ne and Signature:							Pri	nted Na	ime and	Signatu	ire:									
Drinto d M.	ne and Signature:																				
rinked Nan	ne and Signature:							Pri	nted Na	me and	Signatu	re:								,	1
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		Tel No: (410) 584-7000 Fax No. (410) 771-1625													111	,		COC-23	35-501-203
Kirtla	CT NAME: nd AFB Bulk Fuels	PROJECT NUMBER: 62599DM01		NAME AND CONTACT				FA	AX AND	MAIL RI	EPORTS	EDD TO		amond: tl a Smith: a	lamond@			YEAR:	2020
Facilit	•		2425 New Hol	land Pike Lancast	er PA	17601		FA	X AND	MAIL RI	PORTS	S/EDD TO		-	moss@e	-		QUARTER:	3 (Jul-Sep)
ST106/	CT SITE AND PHASE: 'SS111		Lab PO Number:	14800				LA	B CON	TACT: I	(ay How	er K	ayHowe	r@eurofinsl	JS.com	Eu	urofins 1 (717) 556-725	8	
					A٨	IALYS	IS RE	QUIR	ED (S	Specify	numb	er of bo	ottles)						
ITEM	. SAMPLE IE	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SMZSZUB) Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane		COMMENTS	
1	GW235-5	01-203	7-6-2020	0922	2				2										
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COMME	INITE:																	The Allegan State of the Samuel and the specific color and the state of the same sta	
												,						ТВ	203- 🕖 /
SAMPLE	ER(S): D. S.L.	eelk						CC	DURIER	AND SI	HPPING	NUMBER	R: Fe	dEx	815	55	2830	179	
	Name and Signature:	RELINQUISHED BY:		7	DATE		TIME	-	intad Na	ame and	Signatur	ro.		RECEIVED	BY:			DATE	TIME
1	Schweelk	State	2	7-6	4-28	20	1330	named in column 2 is not the last the	med iva	arie and	Signatur	е.							
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						The state of the s													
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	(4)	225 Schiling Circle Suite 400 Hunt Valley MD			·H/	INI	-0	E_		107		nv	DE	ECO	Dr	<b>\</b>		C	OC NUME	BER
		Tel No: (410) 584-7000 Fax No. (410) 771-1625			יון וע	1111		1 -			Oi		IIL	_00	ILL	,		COC	-236-43	36-203
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Facility	,			land Pike Lancas		7601		FA	X AND N	MAIL RI	PORTS	/EDD TO			moss@e	PETER SERVICE		QUARTER:	3 (Jul	-Sep)
PROJEC ST106/S	CT SITE AND PHASE:		Lab PO Number:	14800				LA	B CONT	ACT: F	ay How	er K	ayHowe	er@eurofins	JS.com	E	urofins 1 (717) 556-7258	3		
					AN	ALYS	IS RE	QUIR	ED (S	pecify	numb	er of bo	ttles)							
ITEM	SAMPLE	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane		COMMENTS	3	
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DDO IE	CT NAME:	Fax No. (410) 771-1625													1 1 1					CC	C-24	1-428	3-203
	d AFB Bulk Fuels	PROJECT NUMBER: 62599DM01	The state of the s	NAME AND CONTACT				FA	X AND	MAIL RI	EPORTS	S/EDD TO			tlamond@ asmith@e					YEAR:		2020	)
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	d AFB Bulk Fuels	PROJECT NUMBER: 62599DM01	Eurofins Land	NAME AND CONTAC caster Laboratorie land Pike Lancas	s	17001							Amand	a Smith: a	lamond@			A A	***************************************	YEAR:		20	THE PROPERTY OF THE PARTY OF TH
	T SITE AND PHASE:				er PA	1/601						/EDD TO:	Pam N	Лoss: р	moss@e	eaest.cor	n E	A		QUAR	TER:	3 (Jul	-Sep)
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ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(Gridal, Carbonate, and Bicarbonate)	(RSK-175) Carbon Dioxide	(RSK-175) Methane		M	, ,	СОМ	MENTS		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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	T NAME: I AFB Bulk Fuels	PROJECT NUMBER: 62735DM02	Eurofins Land	NAME AND CONTAC caster Laboratorie lland Pike Lancast	s	maa						S/EDD TO	Amano	a Smith:			eaest.com		YEAR:	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	020
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DD0 150		Fax No. (410) 771-1625																COC-	S8-45	1-203
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Facility			2425 New Hol	land Pike Lancast	ter PA 1	7601		FA	X AND	MAIL R	EPORTS	S/EDD TO				aesl.com		QUARTER:	3 (Jul-	-Sep)
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	T NAME: d AFB Bulk Fuels	PROJECT NUMBER: 62599DM01		NAME AND CONTACT				FA	X AND I	MAIL R	EPORTS	S/EDD TO				mond@ea mith@eae					YEAR:	202	0	
Facility		ozobbino i		lland Pike Lancast		7601		FA	X AND I	MAILR	EPORTS	S/EDD TO				ioss@eae		EA			QUARTER	3		
PROJEC	CT SITE AND ST106/SS111		LAB PO NUMBE	R:				LA	B CONT	TACT:	Kay Ho	wer	KayHo	wer@e	urofinsl	JS.com	Ει	urofins	1 (717)	556-725	8			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
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Kirtlan	d AFB Bulk Fuels	62599DM01	Eurofins Land	aster Laboratorie	S			FA.	X AND	MAIL RI	EPORTS	S/EDD TC			lamond@eaest.com EA smith@eaest.com EA	YEAR:	2020
Facility			2425 New Hol	land Pike Lancast	ter PA	17601		FA	X AND	MAIL RI	EPORTS	S/EDD TO	): Pam I		moss@eaest.com EA	QUARTER:	3
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ITEM	SAMPLE I	DENTIFIER 	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) 8	(8260C) BTEXN	1	(6020A/6010C) Total As,Pb,Ca,K,Na,Mg	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)		СОМ	MENTS		
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	T NAME: d AFB Bulk Fuels	PROJECT NUMBER: 62599DM01	Eurofins Lanc	aster Laboratories and Pike Lancaste	:	7601							Amand	a Smith: asi	mith@eaest.com EA noss@eaest.com EA	2020 QUARTER: 3
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ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C)	(8260C) BTEXN	(8011) EDB	(6020A/6010C) otal As,Pb,Ca,K,Na,Mg	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)		
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ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles			(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total As,Pb,Ca,K,Na,Mg		(300.0) Chloride, bromide, sulfate	Z.	(To		MENTS .
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		225 Schiling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000		C	CH/	11/	1-C	F-	Cl	JS	TO	DY	RI	=00	ORD			COC	NUMB	BER
PROJEC	T NAME:	Fax No. (410) 771-1625 PROJECT NUMBER:	LABORATORY															COC-	ΓB203	-28
	d AFB Bulk Fuels	62599DM01	Eurofins Lan	NAME AND CONTAC caster Laboratorie Iland Pike Lancas	28	17601						S/EDD TO	Aman	da Smith:	tlamond@eaest.com	n EA		YEAR: 2	2020	-20
DBOILE	T SITE AND								TO THE	MAIL	CEPORT	SIEDD IC	J. Pam	Moss;	pmoss@eaest.com	n EA		QUARTER:	3	
	ST106/SS111		LAB PO NUMBE 14800	ER:				LA	AB CON	TACT:	Kay Ho	wer	KayHo	wer@eurof	insUS.com E	Eurofins 1	(717) 556-725			
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ITEM	SAMPLE ID	ENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs				Total As		9	2	(To	(SM2320B)		COM	IMENTS		
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Facility				lland Pike Lancas	ter PA 1	17601		FA	AX AND	MAIL RI	EPORT	S/EDD TO	): Pam	Moss: pn	noss@eaest.com	EA	7	QUARTER:	3	
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				-	AN	ALYS	IS RE	QUIF	RED (S	Specify	/ numl	ber of b	ottles	)						
ITEM	SAMPLE IÉ	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total As,Pb,Ca,K,Na,Mg	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)			СОМ	MMENTS	,	
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PROJE	CT NAME:	Fax No. (410) 771-1625 PROJECT NUMBER:	LABORATORY				-										COC-TB2	203-30
Kirtlan	d AFB Bulk Fuels	62599DM01	Eurofins Land	NAME AND CONTAC	s			FA	X AND	MAIL R	EPORTS	EDD TO			:lamond@eaest.com asmith@eaest.com	EA EA	YEAR: 202	0
Facility			2425 New Hol	land Pike Lancas	ter PA 1	17601		FA	X AND	MAIL R	EPORTS	JEDD TO	: Pam I		omoss@eaest.com	EA	QUARTER: 3	
	CT SITE AND ST106/SS111		LAB PO NUMBE 14800	R:			THE REAL PROPERTY.	LA	B CON	TACT:	Kay Ho	wer	KayHov	ver@eurofin	sUS.com Euroi	fins 1 (717) 556-725	58	
					AN	ALYS	IS RE	QUIR	ED (S	Specify	numt	er of b	ottles)					
ITEM	SAMPLE IC	ENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total As,Pb,Ca,K,Na,Mg	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	(BOSSOMS)	СОМ	MENTS	
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ITEM	SAMPLE IC	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) . BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total As,Pb,Ca,K,Na,Mg	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)			СОММЕ	NTS		
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ITEM	SAMPLE II	DENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	(8011) EDB	(6020A/6010C) Total As,Pb,Ca,K,Na,Mg	(6010C) Dissolved Fe, Mn	(300.0) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)				COM	MENTS			
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# United States Department of the Interior

U. S. GEOLOGICAL SURVEY New Mexico Water Science Center Albuquerque, New Mexico 87110

#### MEMORANDUM FOR RECORD

October 7, 2020

Attention: Cynthia Cash, AFCEC

Through: Kimberly Beisner, Water Quality Specialist, NMWSC

Stuart Norton, Supervisory Hydrologist, NMWSC

From: Kate Wilkins, Hydrologic Technician, NMWSC

Subject: Quarterly Organic Data Transmittal for Kirtland Air Force Base (KAFB) Bulk Fuels

Facility (BFF) Ethylene Dibromide (EDB) Plume Sentinel Wells for the July 2020 to

September 2020 Quarter.

The USGS installed sentinel wells downgradient of the KAFB BFF EDB plume and upgradient from community water-supply wells, as a means of providing advanced warning of water quality in the vicinity of community water-supply wells. Samples are collected from the sentinel wells on a quarterly basis in accordance with the USGS fundamental science practices. This memorandum provides a summary of organic data results for the USGS KAFB BFF EDB plume Sentinel Wells (Figure 1, Table 1). Laboratory analytical results for the quarter from July 2020 through September 2020 are presented in Table 2.

#### Site Descriptions

All the sentinel well sites (Figure 1, Table 1) are located in urban areas. The Trumbull well nest is located in a parking lot at the intersection of Trumbull Avenue SE and Mesilla Street SE. The surrounding neighborhood has a high volume of vehicle traffic. The Cesar Chavez well nest is located behind the Cesar E. Chavez Community Center, and the site is separated from vehicle traffic. The Southern well nest is located east of Phil Chacon Park, and the site is generally separated from vehicle traffic. The VA well nest is located next to Randolph Road SE, which has a high volume of vehicle traffic.

#### Sampling Period

Samplers were deployed between June 2, 2020, and June 5, 2020. Environmental samples were collected between July 6, 2020, and July 9, 2020.

### **Sampling Protocols**

Samples were collected using dual membrane diffusion samplers following USGS sampling protocols outlined in the National Field Manual for the collection of water-quality data (U.S. Geological Survey, variously dated). The quality assurance samples collected include a source solution blank, trip blank, field blanks, equipment blank, matrix spike, and replicate.

#### Sample Analysis

In November 2018, USGS began using the USGS National Water Quality Laboratory (NWQL) for organic compound analyses at the USGS KAFB EDB sentinel wells in order to improve data quality and ensure timely delivery of the data. Organic compound analysis is completed by NWQL using method O-4127-96 (Connor and others, 1998). Effective October 1, 2019, laboratory reporting thresholds were modified to reflect detection limits of EPA Method SW8260C and EPA Method SW8011. The method is approved to be in conformance with the National Environmental Laboratory Accreditation Program (NELAP).

#### <u>Data Review</u>

The data presented herein have been reviewed and approved by USGS staff, as outlined in the work plan (Travis, 2017). Results are reported in Table 2. No detections were found in the environmental samples. The data reviewed within this memorandum were in accordance with the quality assurance requirements outlined in the work plan.

The data are publicly available via NWIS at https://waterdata.usgs.gov/nwis/. If you have any questions regarding the data, please feel free to contact me at 505-830-7946 or klwilkins@usgs.gov.

Sincerely,



Kate Wilkins Project Chief Hydrologic Technician USGS New Mexico Water Science Center

cc: Sheen Kottkamp, AFCEC
Ben Moayyad, USACE
Bernard Bockisch, EA Engineering
Stuart Norton, USGS
Kimberly Beisner, USGS
Michael Johnson, USGS
Erik Storms, USGS

#### References:

Connor, B.F., Rose, D.L., Noriega, M.C., Murtagh, L.K., and Abney, S.R., 1998, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of 86 volatile organic compounds in water by gas chromatography/mass spectrometry, including detections less than reporting limits: U.S. Geological Survey Open-File Report 97-829, 78 p.

Travis, R., 2017, Work Plan for The Quarterly Sampling of the Kirtland Air Force Base Bulk Fuels Facility Plume Sentinel Wells. 31 p.

U.S. Environmental Protection Agency, 1992,1,2-Dibromoethane and 1,2-dibromo-3-chloropropane by microextraction and gas chromatography: U.S. Environmental Protection Agency 13 p., accessed August 17, 2020, at <a href="https://www.epa.gov/sites/production/files/2015-12/documents/8011.pdf">https://www.epa.gov/sites/production/files/2015-12/documents/8011.pdf</a>.

U.S. Environmental Protection Agency, 2006, Volatile organic compounds by gas chromatography/mass spectrometry (GC/MS): U.S. Environmental Protection Agency 92 p., accessed August 17, 2020, at <a href="https://www.epa.gov/sites/production/files/2018-06/documents/method-8260c">https://www.epa.gov/sites/production/files/2018-06/documents/method-8260c</a> rev 3 8-1-2006.pdf.

U.S. Geological Survey, variously dated, National field manual for the collection of water-quality data: U.S. Geological Survey Techniques of Water-Resources Investigations, book 9, chaps. A1-A10, available online at http://pubs.water.usgs.gov/twri9A.

Figure 1: Location of Kirtland Air Force Base Bulk Fuels Facility, USGS sentinel wells, and community water supply wells, Albuquerque and Kirtland Air Force Base, New Mexico.

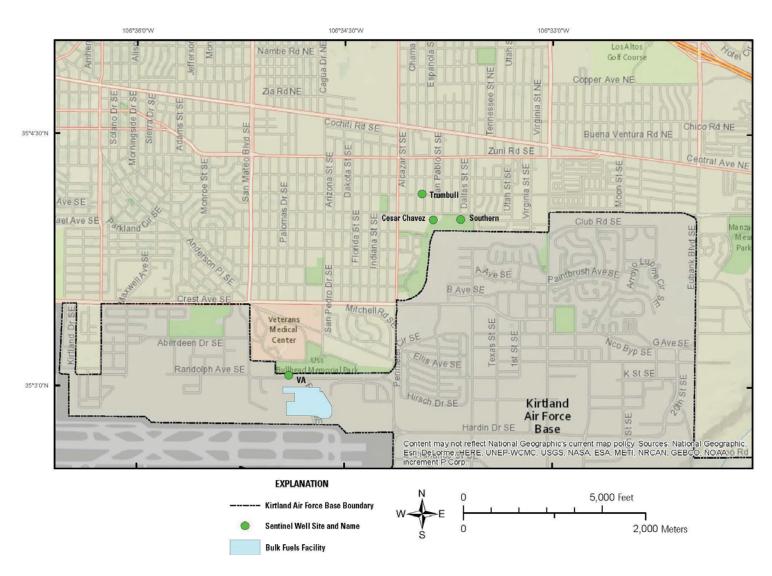


Table 1: Sentinel Well Site Information

Table 1. Selltille	I Well Site Information	ı	T		T
Site Identification Number	Station Name	Construction Completion Date	Well Depth (feet below land surface (bls))	Well Diameter (inches)	Screened Interval (feet bls)
Cesar Chavez Sentir	nel Wells				
350359106335201	10N.04E.30.134A CESAR CHAVEZ SENTINEL WELL 1A	11/20/2014	519	2.5	459 - 509
350359106335202	10N.04E.30.134B CESAR CHAVEZ SENTINEL WELL 1B	10/28/2014	620	2.5	580 - 600
350359106335203	10N.04E.30.134C CESAR CHAVEZ SENTINEL WELL 1C	10/28/2014	1,040	2.5	1,000 - 1,020
350359106335204	10N.04E.30.134D CESAR CHAVEZ SENTINEL WELL 1D	10/28/2014	1,338	2.5	1,298 - 1,318
Southern Sentinel V	Vells				
350359106333901	10N.04E.30.144A SOUTHERN SENTINEL WELL 1A	12/11/2014	538	2.5	468 - 518
3503591063333902	10N.04E.30.144B SOUTHERN SENTINEL WELL 1B	3/22/2015	610	2.5	570 - 590
3503591063333903	10N.04E.30.144C SOUTHERN SENTINEL WELL 1C	3/22/2015	1,090	2.5	1,050 - 1,070
3503591063333904	10N.04E.30.144D SOUTHERN SENTINEL WELL 1D	3/22/2015	1,400	2.5	1,360 - 1,380
Trumbull Sentinel W	/ells			•	
350408106335601	10N.04E.30.1243A TRUMBULL- NEST-1A	4/18/2013	522	2.5	437 - 467; 467 - 517
350408106335602	10N.04E.30.1243B TRUMBULL- NEST-1B	4/18/2013	1,018	2.5	998 - 1,008
350408106335603	10N.04E.30.1243B TRUMBULL- NEST-1C	4/18/2013	1,432	2.5	1,412 - 1,422
VA Sentinel Wells					
350304106345401	10N.03E.36.1433A T10N.R03E.S36.1433A Shallow VA Sentinel Well	4/26/2016	660	3	620 -640
350304106345402	10N.03E.36.1433B T10N.R03E.S36.1433A Middle VA Sentinel Well	4/26/2016	860	3	820 - 840
350304106345403	10N.03E.36.1433C T10N.R03E.S36.1433A Deep VA Sentinel Well	4/26/2016	1,040	3	1,000 - 1,020

Table 2
Groundwater Analytical Results for Sentinel Wells, July- September 2020

					Site Name:	С	esar Chavez	1A	Ce	esar Chavez	1B	Ce	sar Chavez	1C	Ce	esar Chavez	1D
				Station I	dentification:	35	0359106335	201	35	03591063352	202	350	03591063352	203	350	03591063352	204
					Sample Date:	0	7/07/2020 13	00	07	7/07/2020 12	00	07	7/07/2020 11	00	07	7/07/2020 10	00
				;	Sample Type:		Environmenta	al	1	Environmenta	al	E	Environmenta	al	Е	Environmenta	al
				Sample D	epth (ft bgs):		496			591			1002			1303	
			Site Elev	ation (ft abo	ve sea level):		5350.33			5350.23			5350.23			5350.23	
			NMAC	h	Project Screening												1
Parameter	Analytical Method	Analyte	NMWQCC <sup>a</sup>	EPA MCL <sup>b</sup>	Level	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL
EDB	USGS Method	1,2-dibromoethane <sup>d</sup>	0.1	0.05	0.05	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014
VOCs	O-4127-96 (µg/L)	Benzene	10	5	5	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Ethylbenzene	750	700	700	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Naphthalene	30	NS	30	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Toluene	750	1,000	750	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Total Xylenes	620	10,000	620	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8
					0'' N		0 11 14		1	0 " 15		ı	0 11 10		ı	0 11 15	
				04.41	Site Name:		Southern 1A		•	Southern 1B			Southern 1C			Southern 1D	
				Station	Identification:		0359106333		1	03591063339			03591063339			0359106333	
					Sample Date:		7/08/2020 13		•	7/08/2020 12			7/08/2020 11			7/08/2020 10	
					Sample Type:		Environmenta	al		Environmenta	al	[	Environmenta	al	<u> </u>	Environmenta	<u>al</u>
					Depth (ft bgs):		506			580			1062			1370	
			l Sito F	levation (ft ab	nove sea level).		5363 20		1	5363 10		ı	5363 10		ľ	5363 10	

					Sample Type:	E	Environmenta	al	E	Environmenta	al	E	nvironmenta	ıl	E	Environmenta	al
				Sample	Depth (ft bgs):		506			580			1062			1370	
			Site E	levation (ft ab	ove sea level):		5363.20			5363.10			5363.10			5363.10	
					Project												
			NMAC		Screening												
Parameter	Analytical Method	Analyte	NMWQCC <sup>a</sup>	EPA MCL <sup>b</sup>	Level <sup>c</sup>	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL
EDB	USGS Method	1,2-dibromoethane <sup>d</sup>	0.1	0.05	0.05	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014
VOCs	O-4127-96 (µg/L)	Benzene	10	5	5	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Ethylbenzene	750	700	700	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Naphthalene	30	NS	30	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Toluene	750	1,000	750	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Total Xylenes	620	10,000	620	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8

					Site Name:		Trumbull 1A			Trumbull 1B			Trumbull 1C	· 1
				Station	Identification:		04081063356			04081063356			04081063356	
					Sample Date:	07	7/06/2020 12	00	07	7/06/2020 110	00	07	7/06/2020 10	00
					Sample Type:	Е	nvironmenta	al	Е	Environmenta	ıl	E	Environmenta	al
				Sample	Depth (ft bgs):		484			1000			1414	
			Site E	levation (ft ab	ove sea level):		5337.76			5337.76			5337.76	
			NMAC		Project Screening									
Parameter	<b>Analytical Method</b>	Analyte	NMWQCC <sup>a</sup>	EPA MCLb	Levelc	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL
EDB	USGS Method	1,2-dibromoethane <sup>d</sup>	0.1	0.05	0.05	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014
VOCs	O-4127-96 (µg/L)	Benzene	10	5	5	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Ethylbenzene	750	700	700	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Naphthalene	30	NS	30	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Toluene	750	1,000	750	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Total Xylenes	620	10,000	620	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8

Table 2
Groundwater Analytical Results for Sentinel Wells, July- September 2020

					Site Name:		VA Shallow			VA Middle			VA Deep	
				Station	Identification:	350	03041063454	101	350	3041063454	102	350	3041063454	103
					Sample Date:	07	7/09/2020 11	00	07	7/09/2020 10	00	0	7/09/2020 90	00
					Sample Type:	Е	nvironmenta	ıl	Е	nvironmenta	al	Е	nvironmenta	al
				Sample	Depth (ft bgs):		622			820			1000	
			Site E	levation (ft ab	ove sea level):		5340.668			5340.668			5340.668	
			NMAC	h	Project Screening									
Parameter	Analytical Method	Analyte	NMWQCC <sup>a</sup>	EPA MCL <sup>b</sup>	Level <sup>c</sup>	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL
EDB	USGS Method	1,2-dibromoethane <sup>d</sup>	0.1	0.05	0.05	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014
VOCs	O-4127-96 (µg/L)	Benzene	10	5	5	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Ethylbenzene	750	700	700	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Naphthalene	30	NS	30	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Toluene	750	1,000	750	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Total Xylenes	620	10,000	620	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8

a NMWQCC numeric standards per the NMAC Title 20.6.2.3101A, Standards for Ground Water of 10,000 mg/L Total Dissolved Solids Concentration or Less (NMAC 2004).

μg/L = microgram per liter

bgs = below-ground surface

CFR = Code of Federal Regulations

EDB = ethylene dibromide (1,2-dibromoethane)

EPA = U.S. Environmental Protection Agency

ft = foot/feet

MCL = maximum contaminant level

MRL = USGS National Water Quality Laboratory Method Reporting Level

MDL = USGS National Water Quality Laboratory Method Detection Limit

NMAC = New Mexico Administrative Code

NMWQCC = New Mexico Water Quality Control Commission

Val Qual = validation qualifier

VOC = volatile organic compound

#### Results:

< = less than the limit of quantification (numerical result)

#### Qualifiers:

Val Quals based on criteria set by NWQL.

U = A result that is either not detected or below the Method Detection Level.

#### References:

New Mexico Administrative Code. 2004. State of New Mexico, Title 20.6.2 Ground and Surface Water Protection.

<sup>&</sup>lt;sup>b</sup> EPA National Primary Drinking Water Regulations, MCLs and Secondary MCLs, Title 40CFR Part 141, 143 (May 2009).

<sup>&</sup>lt;sup>c</sup> The project screening level was selected to satisfy the requirements of the Kirtland AFB Hazardous Waste Permit Number NM9570024423 as the lowest of (1) NMWQCC numeric standard or (2) EPA MCL.

d 1,2-dibromoethane is reported as a MDL based on NELAP certification. The MDL for 1,2-dibromoethane is 0.014 μg/L.

# **APPENDIX E-6**

**Descriptions from Previous Reports** 

## LIST OF ACRONYMS AND ABBREVIATIONS

% percent

μg/L micrograms per liter

AFB Air Force Base

amsl above mean sea level

BFF Bulk Fuels Facility

BTEX benzene, toluene, ethylbenzene, and total xylenes

DMS dual-membrane sampler

DO dissolved oxygen

EDB ethylene dibromide

GWM groundwater monitoring GWTS groundwater treatment system

mg/L milligrams per liter

PSL project screening limit

Q1 first quarter of the year (January 1 through March 31)
Q2 second quarter of the year (April 1 through June 30)

Q4 fourth quarter of the year (September 1 through December 31)

REI reference elevation interval RPD relative percent different

SE southeast

VA Veteran's Affairs

# 1. EXPLANATION OF REFERENCE ELEVATION INTERVAL DESIGNATIONS

The following text was initially provided in the Fourth Quarter (Q4) 2016 Quarterly and Annual Report (Kirtland Air Force Base [AFB], 2017a):

In previous reports, the distribution of groundwater contamination had been described in terms of shallow, intermediate, and deep intervals within the ethylene dibromide (EDB) plume. These intervals were broadly defined by permeable zones in which EDB migration had been identified, and these intervals have been used to guide the vertical design of monitoring wells. However, with the implementation of the groundwater treatment system (GWTS) interim measure north of Ridgecrest Drive, Southeast (SE), combined with the anticipated continuing water table rebound of approximately 2 feet per year for the next decade, these definitions of shallow, intermediate, and deep become problematic. Not all contamination will move upward with the rising water table; therefore, the base of the deep zone is expected to remain somewhat fixed. In addition, as the water table rises, the plume is expected to increase in thickness over time and impact a shallower layer of the aquifer that is not present today. For these reasons, the continued use of shallow, intermediate, and deep nomenclature will be inadequate to accurately describe changing vertical plume concentrations and changes in the plume related to the GWTS operation.

To assess performance of the GWTS, particularly regarding plume capture and plume collapse, several methods of analysis that compare variations in groundwater flow paths and contaminant concentration trends will be employed both horizontally and vertically. Horizontally, visualizing how concentrations vary in map view, from upgradient to downgradient, around Bullhead Park and the Veteran's Affairs (VA) Medical Center, has not changed as these features are fixed. However, in the vertical dimension, shallow, intermediate, and deep are changing with time and are not fixed. Therefore, to fix these layers to accommodate consistent performance analysis in the vertical dimension, and to provide for future addition of new layers (i.e., a shallower zone) as the water table rises, the concept of reference elevation interval (REI) is introduced in this Report. In concept, what were once the deep, intermediate, or shallow zones will now be represented as layers in cake (e.g., with a bottom elevation and a top elevation). Because of the nature of the permeable zones, the bottom and top undulate somewhat rather than being perfectly flat; however, the plume can still be visualized in terms of these layers. As the water table rises, layers can be added to the top. Because these fixed layers are defined, vertical water levels and vertical contaminant concentrations can be compared over time and always to the same references. This will allow meaningful analysis of trends that demonstrate plume capture and collapse with consistent reference points. The three REIs are 4857, 4838, and 4814, corresponding to the historically identified shallow, intermediate, and deep zones, respectively. Table 3-4 includes the REI assignations for the groundwater monitoring (GWM) network.

The association of the former groundwater zones and REIs relative to the depth of well screen intervals within the GWM network is summarized below:

• *REI 4857* is currently the uppermost interval so named because the GWM wells comprising this dataset are screened across the elevation of 4,857 feet above mean sea level (amsl). Data collected or measured from these GWM wells are representative of the hydrogeologic conditions of this zone that is bounded on top by the water table surface and bounded on the bottom by a surface that intercepts the bottom of the REI 4857 well screens. The screen elevations for the GWM wells within this dataset range from 4,879 feet amsl down to 4,827 feet amsl, and include all wells formerly categorized as shallow, and two new GWM wells completed in December 2016 (KAFB-106235-463 and KAFB-106236-461). These two new wells were not sampled in Q4

2016. A total of 62 wells comprise this dataset, eight of which are included in both the REI 4857 and REI 4838 datasets: KAFB-106001, KAFB-106015, KAFB-106017, KAFB-106018, KAFB-106019, KAFB-106021, KAFB-106022, and KAFB-106025. The reason for this double assignation is due to well screen construction lengths (25-30 feet) and, thus, overlapping screen intervals in REI 4838 by more than 5 feet. This means that samples collected from these eight wells are representative of REI 4857, and are also representative of at least a third of REI 4838. Of note, a majority of the REI 4857 wells were designed to be water table wells with partially submerged screens, having relatively long screen lengths ranging from 20 to 30 feet. However, due to rising groundwater elevations, only 14 GWM wells included in REI 4857 remained with partially submerged screens as of Q4 2016.

- **REI 4838** directly underlies REI 4857 and is so named because all but one of the screens of the GWM wells comprising this dataset are screened across the elevation of 4,838 feet amsl. Data collected or measured from these GWM wells are representative of the hydrogeologic conditions of this zone that is bounded on top by the bottom surface of REI 4857 and bounded on the bottom by a surface that intercepts the mid-point between the REI 4838 screens and the underlying REI 4814 screens. The screen elevations for the GWM wells within this dataset range from 4,848 feet amsl down to 4,800 feet amsl, and includes all but two of the wells previously categorized as intermediate; the exceptions are GWM wells KAFB-106230 and KAFB-106232, which are now included in the REI 4814 dataset due to the depth of their screens. Eight wells are included in both in REI 4857 and REI 4838 datasets, as discussed above. The REI 4838 GWM well dataset contains one anomalous well assignment (KAFB-106037). This well, having a screened elevation between 4,815 and 4,800 feet amsl, was previously assigned as a deep well. However, it is part of the only clustered well group having four wells (all other have either two or three). Having three REIs meant excluding one well from this system in the capture analyses. KAFB-106037 was chosen over KAFB-106036 because analysis of historical groundwater level measurements from this clustered well group showed that it was in better communication with the nearby interim measure extraction well KAFB-106228. KAFB-106037 was placed in REI 4838 because the deepest well in the clustered well group (KAFB-106212) is screened below extraction well KAFB-106228, which necessitated its inclusion in the underlying REI 4814. A total of 46 GWM wells are included in REI 4838.
- *REI 4814* directly underlies REI 4838 and currently represents the lowest elevation dataset. This dataset includes all but one well (KAFB-106037) previously designated as deep, as well as the two previously designated intermediate wells (KAFB-106230 and KAFB-106232), as described above. The screened intervals for GWM wells within this dataset cover a large vertical extent of the aquifer ranging from an elevation of 4,824 feet amsl down to an elevation of 4,720 feet amsl. Not all of the screened intervals overlap, prohibiting the assignment of a reference elevation common to all wells. There are 16 wells with screen elevations ranging from 4,824 to 4,798 feet amsl, while 20 well screens fall within the 4,781- TO 4,753 feet amsl range, and three well screens from 4,740- to 4,720 feet amsl. A reference elevation of 4,814 feet amsl was chosen as an identifier for this interval because it passes through the screens of the uppermost group of wells in the dataset allowing for the addition of a deeper REI if required in the future. Data collected or measured from these GWM wells are representative of the hydrogeologic conditions of this zone that is bounded on top by the bottom surface of REI 4838 and bounded on the bottom by a surface that intercepts the bottom of the REI 4814 well screens. There are 39 GWM wells installed in REI 4814.

# 2. DISCUSSION OF FIELD PARAMETERS FROM PASSIVE SAMPLING

## 2.1 Comparison of field parameters between passive and low-flow sampling

The following text was initially provided in the Second Quarter (Q2) 2017 Quarterly Report (Kirtland AFB, 2017b):

Upon initiating the Q2 2017 passive sampling, field parameter measurements were notably skewed from historical measurements. Following the collection of field parameters from 13 GWM well locations with passive samplers, it was apparent that field parameter data collected from the passive samplers were not representative of the groundwater conditions due to the pore diameter of the passive sampling membranes, and continued collection of field parameters from passive samplers was terminated pending discussion with the New Mexico Environment Department. Therefore, field parameters were only collected from wells that utilized low-flow sampling techniques (all located south of Gibson Boulevard SE).

### 2.2 Passive Sampler Evaluation

The following text was initially provided in the Q4 2017 Quarterly and Annual Report (Kirtland AFB, 2018a):

A demonstration was performed in Q4 2017 to assess a proposed transition from collecting grab samples using a low-flow methodology (Bennett pump sampling systems) to a passive sampling technique (i.e., dual-membrane sampler [DMS]). This demonstration consisted of comparing low-flow sample analytical results and passive sample analytical results for EDB; benzene, toluene, ethylbenzene, and total xylenes (BTEX); and inorganic compounds from groundwater samples collected from five source area wells (Figure E-7-1). The results are reported in Table 3-14, and shown on Figure 3-23.

In addition, field parameters were compared between the low-flow purge water using a YSI Pro Plus multiparameter probe with a flow-through cell, and measurements taken *in situ* within the well using an Aqua TROLL® 600 multiparameter sonde deployed within the well screen depth (Table 3-15). If passive sampling is approved for source area wells, reliable field parameter measurements will not be achieved from the DMSs and, therefore, an *in situ* method may be proposed if continued field parameter collection is necessary.

The analytical results from this demonstration are summarized below. In accordance with the work plan (Kirtland AFB, 2017c), the low-flow sample data are used for reporting purposes. The sample results from the DMSs are only used for demonstration purposes, and a relative percent difference (RPD) was calculated for each analyte within each sample (Table 3-14). The approved Quality Assurance Project Plan acceptable RPD for duplicate groundwater samples is 35 percent (%) for analytical results and was, therefore, used herein to determine a comparable threshold value. The RPD acceptance threshold of 35% is relevant when comparing two samples utilizing the same sampling methodology. A comparison of results collected via two different sampling methods, one discrete (DMS) and one indiscrete (Bennett Pump), may result in widely varying RPDs. The 35% threshold has been selected to illustrate that the two methods provide results that are comparable to two samples obtained using the same sampling methodology. Analytical results and RPDs are summarized below:

• EDB was detected in all groundwater samples collected using both low-flow and passive technologies. The RPD for EDB from samples collected from KAFB-106005 was 10%. The EDB

concentrations from the other four wells in the demonstration ranged from 0.85 to 5.9 micrograms per liter (µg/L), with RPDs ranging from 48 to 175%; above the acceptable 35% RPD.

- Benzene was detected in all groundwater samples (at concentrations above the project screening limit [PSL] of 5 μg/L) using both low-flow and passive technologies. The RPD for the benzene results was 0% for KAFB-106008 (both methods had a benzene concentration of 2,300 μg/L) and the RPD was relatively low for two other wells (KAFB-106005 and KAFB-106006) at 26 and 31%, respectively. The RPD for benzene from groundwater samples collected from KAFB-106014 and KAFB-106059 was 64 and 121%, respectively; above the acceptable 35% RPD.
- Toluene was detected or estimated in all groundwater samples collected using both low-flow and passive technologies. The RPD for toluene ranged from 16 to 195%, and was below the acceptable 35% RPD in two wells (KAFB-106005 and KAFB-106008).
- Ethylbenzene was detected in all groundwater samples collected using both low-flow and passive technologies. The RPD for ethylbenzene was 0% in KAFB-106006 (both methods had an ethylbenzene concentration of 3  $\mu$ g/L) and the RPD was relatively low for KAFB-106005 (19%). The ethylbenzene concentrations from the other three wells in the demonstration ranged from 45 to 470  $\mu$ g/L, with RPDs ranging from 39 to 164%; above the acceptable 35% RPD.
- Total xylenes were detected all groundwater samples collected using both low-flow and passive technologies, with the exception of the DMS sample from KAFB-106006, precluding the ability to calculate an RPD from that well. The RPD for total xylenes was 17% from KAFB-106005, within the 35% RPD. The RPD was above 35% in the remaining wells (KAFB-106008, KAFB-106014, and KAFB-106059).

It should be noted that while some RPD values for EDB and benzene exceeded the 35% threshold, no significant differences in analyte concentrations were observed between either sampling method or the respective analyte PSL. Both methods yielded comparable results that were either both below or above the PSL. The only exception to this was the EDB results from well KAFB-106006. At this well, the low-flow sampling method resulted in an estimated value below the PSL  $(0.014 \,\mu\text{g/L})$  while the passive sampling method resulted in a value above the PSL  $(0.21 \,\mu\text{g/L})$ . When comparing plume maps utilizing either the passive sampling data or the low-flow sampling data, only minimal shifts of some internal isocontours occur between the two sample types (Figure 3-23); however, the overall contoured boundary (specified as the PSL concentration) generally remained unchanged.

- Inorganic concentrations observed in the groundwater samples collected using the two methods were generally in agreement, with only a few samples that exceeded the 35% RPD, as follows:
  - Dissolved manganese in KAFB-106005 (40% RPD) and KAFB-106014 (46% RPD)
  - Nitrate/nitrite nitrogen in KAFB-106005 (156% RPD) and KAFB-106006 (40% RPD)
  - Dissolved iron in KAFB-106006 (44% RPD)
  - Chloride in KAFB-106014 (80% RPD).

The results from the field parameter demonstration are summarized below. In accordance with the work plan (Kirtland AFB, 2017c), the low-flow purge water data are used for reporting purposes as measured using the YSI Pro Plus. The field parameters from the Aqua TROLL® 600 multiparameter sonde are used

for demonstration purposes only, and an RPD was calculated for each parameter within each well (Table 3-15). An RPD of 50% was deemed acceptable for the field parameters, and is conservative given the variability and relatively low concentrations of dissolved oxygen (DO) and turbidity. In accordance with the work plan (Kirtland AFB, 2017c), field parameters were collected until stabilization of three consecutive readings within 10% of one another was achieved, or a maximum of 1 hour. The final, stabilized field parameters measurements are used for reporting and demonstration purposes.

- Turbidity had relatively high RPDs, with the exception of KAFB-106014 at 20%; the remaining four wells had an RPD for turbidity ranging from 60 to 198%.
- Temperature was consistent between the two methods, with a maximum RPD of 12% (KAFB-106008).
- DO had relatively high RPDs in three wells (KAFB-106005, KAFB-106006, and KAFB-106008). DO had relatively low RPDs in KAFB-106014 (46%) and KAFB-106059 (28%). Although DO had relatively high RPDs in three of the demonstration wells, the results were all <1 milligrams per liter (mg/L), with the exception of the low-flow result from KAFB-106006 (2.94 mg/L).
- Specific conductivity was consistent between the two methods, with a maximum RPD of 43% (KAFB-106005).
- pH was consistent between the two methods, with a maximum RPD of 7% (KAFB-106059).
- Oxidation-reduction potential had relatively high RPDs in wells KAFB-106005 and KAFB-106059 at 55 and 54%, respectively. The other wells demonstrated relatively low RPDs for oxidation reduction potential, ranging from 5 to 29%.

These results indicate that passive sampling techniques (i.e., DMSs) generally provide results that are comparable to low-flow techniques for inorganic parameters. For volatile parameters, including EDB and BTEX, the results indicate good agreement between the two methods for relatively lower concentrations (e.g., KAFB-106005 and KAFB-106006); however, the higher concentrations of EDB and BTEX did not provide as comparable results between the two methods (e.g., KAFB-106008, KAFB-106014, and KAFB-106059). Plume delineation in the source area at the PSL for both EDB and benzene was comparable between both methods. Significant differences in concentration contours were only observed at concentrations exceeding the PSL by approximately three orders of magnitude (Figure 3-23). The only exception to the plume boundary was for the EDB PSL contour extending further south around KAFB-106006 due to the higher passive sampler concentration.

Previous demonstrations have shown generally comparable results between the two methods, with no consistent bias identified (i.e., neither method has consistently resulted in higher or lower concentrations). Furthermore, vertical profiles were evaluated in Q4 2016 and first quarter (Q1) 2017 (Kirtland AFB, 2017d) that demonstrated most source area wells that were evaluated did not have significant vertical gradients and, therefore, matching the passive sample depths to the low-flow sample depth, as was done for this demonstration, should not result in a significant sample bias. The two field parameter methods (low-flow purge water versus *in situ* measurements) resulted in agreement between the methods, with turbidity being the parameter with the greatest discrepancies. Temperature, pH, and specific conductivity all revealed consistent measurements between the two methods. Although DO resulted in RPDs greater than 50% in three wells, all results were <1 mg/L, with the exception of the low-flow result from KAFB-106006 (2.94 mg/L).

### 3. REGIONAL GROUNDWATER GRADIENT

The following text was initially provided in the Q2 2018 Quarterly Report (Kirtland AFB, 2018b):

The GWM well network for the Kirtland AFB Bulk Fuels Facility (BFF) jet fuel dissolved-phase contamination is screened near the top of the saturated interval of the Santa Fe Group aguifer system. Historically, this aguifer system was the sole water supply for the Albuquerque metropolitan area and the groundwater flow was from north-northeast to south-southwest toward the Rio Grande (Bexfield and Anderholm, 2000). As the population increased, water demand also increased and the Santa Fe aquifer system experienced significant stress resulting in water level declines in excess of 100 feet near Kirtland AFB (Powell and McKean, 2014). Furthermore, the groundwater flow changed direction from southsouthwest (toward the Rio Grande) to an easterly and northeasterly direction, away from the Rio Grande and toward the city and its drinking water supply wells (Powell and McKean, 2014). It is important to note the predominant groundwater flow direction, which the dissolved-phase constituents migrated along, was north-northeast. To reduce the use of groundwater while maintaining municipal water supply, in 2008, the Albuquerque Bernalillo County Water Utility Authority began diverting water from the San Juan-Chama Drinking Water Project. As a result, this surface water diversion has relieved the pumping stress of the Santa Fe aquifer system and groundwater levels have been rebounding approximately 3-4 ft per year, with rates varying depending upon the proximity to pumping wellfields or historical groundwater sinks (Beman, 2013). A more detailed discussion of the conceptual site model can be found in Section 7 of the RFI Report (Kirtland AFB, 2018c).

# 4. DESCRIPTION OF FORMER WELL DESIGNATIONS AND ASSOCIATED SAMPLING REGIMES

The following text was initially provided in the Q4 2018 Quarterly and Annual Report (Kirtland AFB, 2019):

In previous reports, GWM wells were assigned designations based either on their location related to the groundwater gradient and their spatial relationship to the dissolved-phase EDB or simply on their location (i.e., source area, etc.). However, due to the changing regional groundwater gradient (Section 3), these designations may no longer be appropriate or meaningful. In order to present analytical data and data summaries conveniently at the project scale, all GWM wells will hereafter be designated simply as "groundwater monitoring well," except for newly added wells (which includes any newly installed wells), and the presentation of analytical data will be centered on analytes as opposed to former well designation. The former well designations and monitoring well objective are provided in Table 3-1 along with the current sampling regime by quarter. A brief description of the former well designations and the frequency of samples collected by designation is provided below.

**Newly Added Wells**—Newly added wells include both existing wells that are added to the GWM network as well as newly installed wells that have not completed four quarters of baseline sampling. Newly added GWM wells require a minimum of four consecutive quarters of baseline full-suite analytical sampling before receiving a designation that determines the long-term sampling regime. These wells have been added to define the plume boundary and provide additional water table monitoring due to the rising groundwater elevation.

Source Area Wells—Primarily located in the BFF south of Randolph Road SE and proximal to the spill site on-Base. Sampled during Q2 and Q4. These wells monitor the higher concentrations of dissolved-phase contaminants on-Base.

**Downgradient Proximal Wells**—Located north of Ridgecrest Drive SE surrounding the historical low concentration dissolved-phase EDB to the west, north, and east into the distal portion of the GWM network. Analytical data for these wells have been historically below the maximum contaminant level for EDB. Sampled every quarter. These wells assist in plume boundary definition.

**Veterans Affairs (VA) Proximal Wells**—Three sets of nested wells located between the historical dissolved-phase EDB south of Ridgecrest Drive SE and the Raymond G. Murphy VA Medical Center as a means to detect any potential contaminant migration toward the VA medical campus. Sampled every quarter. These wells provide additional wellhead protection monitoring for the VA supply well.

*Signal Wells*—Three wells located along the south side of Ridgecrest Drive SE to monitor BTEX and provide early indication if theses dissolved-phase constituents are migrating from the source area into the interim measure Target Capture Zone. Sampled during Q2 and Q4.

**GWM Wells**—Primarily located north of Ridgecrest Drive SE within the historical footprint of the dissolved-phase EDB. Analytical data from these wells serve to define the volume and mass of the dissolved-phase EDB throughout the GWM network. Sampled in Q2 and Q4.

### 5. EDB CAPTURE EVALUATION METHODOLOGIES

# 5.1 Capture Evaluation Methodologies from the Q4 2016 Quarterly and Annual Report

The following text was initially provided in the Q4 2016 Quarterly and Annual Report (Kirtland AFB, 2017a):

#### **5.1.1** Horizontal Capture Analysis

The horizontal capture analysis for the interim measure objective area north of Ridgecrest Drive SE for both Q2 and Q4 2016 is summarized in Table 5-8. An entire plume horizontal capture summary is provided in Appendix I (Table I-6-1). The capture zone analyses were conducted using groundwater head and EDB concentration data sets collected in 2016. The three synoptic groundwater head measuring events were from March 26 to 30 (Q2), from July 11 to 14 (Q3), and from October 3 to 6 (Q4 2016). EDB samples were collected from 132 wells in Q2 2016 and 138 wells in Q4 2016. Comprehensive EDB analysis was not performed during Q1 and Q3 2016 because only a subset of the GWM network is sampled in Q1 and Q3 as compared to the entire network in Q2 and Q4; therefore, the capture zone analyses were focused solely on Q2 and Q4 2016. Additionally, development water samples from the six newly installed wells (December 2016) showed EDB concentrations below the laboratory detection limit (Appendix B-1 includes analytical data). In order to have comparable EDB concentration datasets for plume iso-shell modeling, six nondetect data points were placed at the location of the six new wells within the Q2 dataset.

The first step in the horizontal capture analysis was to use ArcGIS Spatial Analyst to develop potentiometric surface maps for REIs 4857, 4838, and 4814 described previously in this report. The 4857 and 4838 REIs contain some portion of the plume iso-shell and, therefore, were used to analyze horizontal capture. The lowest REI (4814) does not incorporate any of the plume volume and, therefore, was not used for horizontal capture analysis. The natural neighbor technique was used to develop raster surfaces from assigned cell sizes of 20-feet that ensured each data point was represented by a unique raster cell during interpolation. Once the potentiometric raster surfaces were developed, spatial analyst was used to contour the head values at 0.1-foot iso-line intervals.

Each potentiometric surface included an estimated head value for active extraction wells. Using heads measured at extraction wells for constructing potentiometric surface maps can bias the interpretation of capture, since the heads at the extraction wells may be much lower than heads in the aquifer just outside the well bore. It can be equally problematic if no head value is assigned to the extraction wells. The measured drawdown in the active extraction wells ranged from 7- to 15-feet. To reduce bias, the assigned head in the extraction wells was estimated by multiple two-point regression analyses using wells adjacent to the extraction well. This resulted in an assigned head 0.1-foot lower than the lowest head in monitoring wells adjacent to extraction wells KAFB-106238 and KAFB-106234 when active. The lower head estimate for extraction well KAFB-106234 is due to the closest adjacent monitoring wellbeing located approximately 225-feet away while the closest adjacent monitoring wells to KAFB-106228 and KAFB-106233 were located less than 35-feet away. The estimated head was assumed to be uniform with depth through both REIs.

The hydraulic divides for each extraction well in each REI were developed in two steps using ArcGIS Spatial Analyst. First, a raster of flow direction from each cell in the potentiometric surface raster to its steepest downslope neighbor was created using the Flow Direction tool. Second, a raster delineating all drainage basins within the potentiometric surface was created using the Basin tool. The basin raster was converted into polygons, which could then be used for display of the capture zone boundaries and to crop segments of the plume volume for further analysis. Streamlines (particle tracks) showing the direction of flow along the potentiometric surface for each REI were developed using C-Tech MVS software. Each potentiometric raster surface was imported and converted into a gradient vector grid. Points assigned at the three-dimensional location of each screened interval in the dataset were assigned as seed points from which downgradient streamlines were created.

The capture analysis of the EDB plume for each interval was performed entirely in MVS using the exports from the processes described above. First, the EDB plume was cropped on top and bottom by the elevation grids that defined the aquifer extent represented by the interval dataset. Second, the remaining plume volume was segmented using the capture zone (basin) polygons for each extraction well. Lastly, the cropped and segmented plume volume was split by a line representing the location of Ridgecrest Drive SE so that plume volume and mass capture analyses could be performed for the portion of the plume within the interim measure objective area. All plume volume segments were then exported as polygon shapefiles for figure display.

Figure 5-3 shows the horizontal capture of the portion of the EDB plume within REI 4857 during Q2 2016. Plume capture is divided between the three active extraction wells (KAFB-106228, KAFB-106233, and KAFB-106234). With respect to the entire plume volume in REI 4857, the interim measure resulted in the horizontal capture of 69% of the plume volume and 29% of the plume mass. The discrepancy between plume volume and mass is due to the source area and, thus, the bulk of the EDB mass being located south of the extraction well capture zones. With respect to the objective area north of Ridgecrest Drive SE, the interim measure resulted in the horizontal capture of 99.3% of the plume volume and 99.7% of the plume mass (Table 5-8). A small portion of the plume was lost from capture due to flow to an unidentified sink defined by KAFB-106106 located in the northwestern portion of the plume, near Ross Avenue.

Figure 5-4 shows the horizontal capture of the portion of the EDB plume within REI 4838 during Q2 2016. With respect to the entire plume volume in REI 4838, the interim measure resulted in the horizontal capture of 42% of the plume volume and 12% of the plume mass. With respect to capture in the objective area, the interim measure resulted in the horizontal capture of 79% of the plume volume and 80% of the plume mass. A portion of the plume was lost from capture due to flow to an unidentified sink defined by KAFB-106089 located south of extraction well KAFB-106228. Additional capture loss is due to inadequate coverage by the dataset for this quarter as confirmed capture could not be established northwest of extraction well KAFB-106234. Inferred capture volume and mass are not included in the capture statistics (i.e., the percentages of plume capture would increase if the inferred capture was added).

Combining the two capture analyses of the entire plume volume and mass discussed above, the interim measure resulted in the horizontal capture of 59% of the plume volume and 25% of the plume mass. With respect to the objective area, the interim measure resulted in the horizontal capture of 92% of the plume volume and 93% of the plume mass in Q2 2016.

Figure 5-5 shows the horizontal capture of the portion of the EDB plume within REI 4857 during Q4 2016. Plume capture was divided between the two active extraction wells (KAFB-106228 and KAFB-106234) (NOTE: Extraction well KAFB-106233 was not operated from June 10 to December 31 due to biofouling issues). With respect to the entire plume volume, the interim measure resulted in the horizontal capture of 66% of the plume volume and 11% of the plume mass. With respect to the objective area north

of Ridgecrest Drive SE, the interim measure resulted in the horizontal capture of 99% of the plume volume and 99.5% of the plume mass (Table 5-8). A small portion of the plume was lost from capture due to flow to an unidentified sink defined by KAFB-106235-463 located west of KAFB-106234.

Figure 5-6 shows the horizontal capture of the portion of the EDB plume within REI 4838 during Q4 2016 (NOTE: Extraction well KAFB-106233 was not operated from June 10 to December 31 due to biofouling issues). With respect to the entire plume volume, the interim measure resulted in the horizontal capture of 84% of the plume volume and 52% of the plume mass. With respect to capture in the objective area, the interim measure resulted in the horizontal capture of 95% of the plume volume and 97% of the plume mass. A portion of the plume was lost from capture due to flow to an unidentified sink defined by KAFB-106220 located southeast of extraction well KAFB-106234. The capture analysis method suggested the existence of a closed depression defined by KAFB-106089 located north of Ridgecrest Drive SE in the north-central portion of the EDB plume, which would have reduced the capture statistics. However, an analysis of the head in KAFB-106089 and the heads in the surrounding wells, including KAFB-106037 less than 35-feet from extraction well KAFB-106228, showed no data support for this interpretation (see Section 5.3.4 for more details) as the head in KAFB-106037 was 0.1-foot lower than in KAFB-106089.

Combining the two capture analyses for the entire plume as discussed above, the interim measure resulted in the horizontal capture of 73% of the plume volume and 19% of the plume mass. With respect to the objective area, the interim measure resulted in the horizontal capture of 97% of the plume volume and 99% of the plume mass in Q4 2016.

#### 5.1.2 Vertical Capture Analysis

The vertical capture analysis for the interim measure objective area north of Ridgecrest Drive SE for both Q2 and Q4 2016 is summarized in Table 5-9. An entire plume vertical capture summary is provided in Appendix I-6 (Table I-6-2). A vertical capture analysis evaluates groundwater levels between adjacent hydrologic units to determine zones of upward versus downward flow. Capture is defined by zones with upward flow that prevents dissolved contaminants from being transported by advection deeper into the aquifer. Vertical flow direction can be evaluated by subtracting the groundwater head measured in an adjacent lower hydrologic unit from the groundwater head measured in the overlying unit. A head difference of less than zero indicates that the head in the lower unit is greater than the head in the upper unit and, therefore, water will flow vertically upward.

As described in Section 5.3.2, potentiometric surface grids were developed for three vertically adjacent REIs covering the zones containing EDB concentrations above 0.05 µg/L. Vertical capture was evaluated in two hydrologic units using grid subtraction. Vertical flow directions across the upper unit, defined on top by the elevation of the water table and bounded on the bottom by an elevation plain that passes through the mid-point of all of the REI 4838 screened intervals, were defined by subtracting the REI 4838 potentiometric surface grid from the REI 4857 potentiometric surface grid. Vertical flow directions across the lower unit, defined on top by the REI 4838 mid-point elevation plain and bounded on the bottom by an elevation plain connecting the bottom of all of the REI 4814 screened intervals, were defined by subtracting the REI 4814 potentiometric surface grid from the REI 4838 potentiometric surface grid. Vertical capture zones, defined by regions in each elevation interval by head difference with negative difference values, were converted to polygons for use in plume capture analysis. Grid subtractions and conversions were performed using ArcGIS Spatial Analyst.

Vertical plume capture analysis was performed by first defining the plume volume in the upper (above REI 4838 mid-point) and lower (below REI 4838 mid-point) units. The entire plume volume delineated

for both Q2 and Q4 2016 was sliced along the REI 4838 screened interval mid-point elevation plain. The portion of the plume above the slice represented the upper unit plume volume. The portion of the plume below the slice represented the lower unit plume volume.

The upper plume volume has two opportunities to be captured vertically. Initially, this plume volume can be captured by upward flow between REI 4838 and REI 4857. Portions of the plume not captured in this interval have the potential to move downward into the lower unit. Once in the lower unit, these portions can be captured by vertical upward flow between REI 4814 and REI 4838. The lower plume volume can only be captured by vertical upward flow between REI 4814 and REI 4838. Once the unit plume volumes have been delineated, they are segmented by the capture polygons developed from the head difference grids volume and mass capture analysis.

Figures 5-7 and 5-8 show the results of the vertical capture analysis for the upper (above REI 4838 midpoint) unit plume volume in Q2 2016. Figure 5-7 shows the portion of plume captured by upward vertical flow between REI 4838 and REI 4857. With respect to the entire plume, 43% of the plume volume and 20% of the plume mass were vertically captured in this unit. With respect to the plume within the interim measure objective area north of Ridgecrest Drive SE, 49% of the plume volume and mass was vertically captured in this unit. Figure 5-8 shows the portion of the upper plume vertically captured in both the upper and lower unit. With respect to the entire plume, an additional 38% of the plume volume and an additional 18% of the plume mass were captured by vertical upward flow between REI 4814 and REI 4838. With respect to the interim measure objective area, an additional 43% of the plume volume and an additional 45% of the plume mass were vertically captured in the lower unit. Combining the two analyses, 81% of the plume volume and 38% of the plume mass in the upper unit were vertically captured in Q2 2016. With respect to the interim measure objective area, 92% of the plume volume and 93% of the plume mass in the upper unit were vertically captured for this period.

Figure 5-9 shows the result of the vertical capture analysis for the lower plume volume in Q2 2016. With respect to the entire lower unit, 40% of the plume volume and 24% of the plume mass were vertically captured by upward flow between REI 4838 and REI 4814. With respect to the interim measure objective area, 58% of the plume volume and 56% of the plume mass were vertically captured. In total, 85% of the plume volume and 87% of the plume mass in the interim measure objective area were vertically captured in Q2 2016.

Figures 5-10 and 5-11 show the results of the vertical capture analysis for the upper (above REI 4838 mid-point) unit plume volume in Q4 2016. Figure 5-10 shows the portion of plume captured by upward vertical flow between REI 4838 and REI 4857. With respect to the entire plume, 42% of the plume volume and 7% of the plume mass were vertically captured in this unit. With respect to the plume within the interim measure objective area north of Ridgecrest Drive SE, 55% of the plume volume and mass were vertically captured in this unit. Figure 5-11 shows the portion of the upper plume vertically captured in both the upper and lower unit. With respect to the entire plume, an additional 30% of the plume volume and an additional 55% of the plume mass were captured by vertical upward flow between REI 4814 and REI 4838. With respect to the interim measure objective area, an additional 20% of the plume volume and an additional 16% of the plume mass were vertically captured in the lower unit. Combining the two analyses, 73% of the plume volume and 62% of the plume mass in the upper unit were vertically captured in Q4 2016. With respect to the interim measure objective area, 75% of the plume volume and 72% of the plume mass in the upper unit were vertically captured for this period.

Figure 5-12 shows the result of the vertical capture analysis for the lower (below REI 4838 mid-point) unit plume volume in Q4 2016. With respect to the entire lower unit plume, 41% of the plume volume and 36% of the plume mass were vertically captured by upward flow between REI 4814 and REI 4838. With respect to the interim measure objective area, 49% of the plume volume and 53% of the plume mass

were vertically captured. In total, 68% of the plume volume and 67% of the plume mass in the interim measure objective area were vertically captured in Q4 2016.

# 5.2 Capture Evaluation Methodologies from the Appendix I-7 of the Q2 2018 Quarterly Report

The following text was initially provided in Appendix I-7 of the Q2 2018 Quarterly Report (Kirtland AFB, 2018b):

Model domain capture was analyzed using two sets of 3D particle track exports. The first set was designed to visualize the capture produced by each simulated extraction well across the model domain. The 3D location points were assigned at the top and bottom elevation of each simulated extraction well. Additional location points were assigned at 10-ft intervals along the length of each screen interval. The 10-ft interval was chosen because 10 ft is the shortest screen interval in the monitoring well network and, therefore, represents the default resolution to vertical data. FEFLOW was then instructed to produce 72 "seed" points (particle track start points) around each location point at an assigned radius of 1 m (3.3 ft). FEFLOW uses sets of 24 for radius assignments. It is assumed that water within the 1-m radius flows to the well. Backward 3D particle tracks are then run from all "seed" points and the path lines are exported as 3D lines (geographic information system and 3D points (American Standard Code for Information Interchange). The point export represents the X, Y, and Z location of all vertices along each particle track line. Capture evaluation, using this method, of the seven extraction wells within the model domain produced 6,129 particle track lines. Appendix I-7 – Figure 8 shows a 2D representation of the particle tracks produced from each extraction well.

While the above analysis allows for a visual analysis of model scale capture, it does not allow for quantifying capture produced by each extraction well specific to the dissolved EDB plume volume. Particle tracks run backwards from the wells did not completely represent flow from the water table in the plume area, resulting in large volumes of plume without particle track penetration and therefore without capture indication. As a result, the plume specific capture was analyzed using the following four-step process.

Step 1 was converting the 3D plume grid into 3D "seed" points for particle tracking in FEFLOW. All of the modeled plume cells were exported as geographic information system polygons from the 3D plume model for Q2 2018. Exporting the plume cells from C Tech's Mining Visualization System software results in a set of polygons delineating the external faces of the plume as well as the internal makeup of the plume. Appendix I-7 – Figure 9a shows a 2D representation of the cell export. Each cell is attributed with the X, Y, and Z value for the cell centroid.

Step 2 was the production of particle tracks and extraction well mapping. The centroid data produced in Step 1 was converted into a 3D point file, which was brought into the 2018 Q2 numerical model as observation points. FEFLOW was instructed to use each of these points as "seed" points for forward run particle tracks, 2D representation of the results are shown in Appendix I-7 – Figure 9b. Each particle track was mapped to its discharge point (extraction well) and attributed, respectively.

Step 3 was the mapping of plume capture to the originally exported plume cells. The particle track lines were converted to a point file representing the start and endpoints of each line labeled with the extraction well identification. The start points matched the cell centroid locations and elevations and were used to attribute each plume cell with the extraction well to which the aquifer volume at that location flowed (Appendix I-7 – Figure 9c).

Step 4 was the delineation of extraction well capture polygons for calculation of plume capture volumetrics. Analysis of the extraction well attributed plume cells showed that the capture zones produced by each extraction well were coincident (did not cross) except for the capture boundary between KAFB-106228 and KAFB-106239. There was some overlap of the KAFB-106233 and KAFB-20 cell areas with KAFB-106228 cell areas; however, the centroids did not overlap. Cell areas and centroids between KAFB-106228 and KAFB-106239 did overlap. KAFB-106228 captured the upper part of the plume at or near the water table, while KAFB-106239 captured the deeper portion of the plume. This is likely due to KAFB-106228 being screened across the water table and KAFB-106239 being screened completely below the water table. The capture boundaries were assigned along neighboring particle track lines for each zone except for between KAFB-106228 and KAFB-106239. Where these two capture zones overlapped, the capture boundary was assigned as the centerline of the overlap area. These capture zones were exported into Mining Visualization System 3D space and used to split the plume volume and develop estimates of plume volume and mass captured by each well. Appendix I-7 – Figure 9d shows a 2D rendering of the final 3D capture zone delineations and the plume area split into these capture zones.

## 5.3 Capture Evaluation Methodologies from the Appendix I-6 of the Q4 2018 Quarterly and Annual Report

The following text was initially provided in Appendix I-6 of the Q4 2018 Quarterly and Annual Report (Kirtland AFB, 2019):

#### 5.3.1 Introduction

The purpose of Step 4 of the EPA Systematic Approach for Evaluation of Capture Zones is to perform specific calculations to add additional lines of evidence characterizing the extent of capture (EPA, 2008). This performance assessment incorporates the use of a numerical groundwater flow model to simulate heads resulting from interim measure extraction. The purpose of the model is to define the three-dimensional hydraulic containment produced by interim measure extraction at the point in time when groundwater heads are measured and compare these containment zones to the Target Capture Zone developed for the same time period.

For the second quarter (Q2) 2018 performance assessment of the Kirtland Bulk Fuels Facility interim measure extraction system, EA Engineering, Science, and Technology, Inc., PBC (EA) developed and began use of a numerical flow model to simulate heads and estimate capture for the interim measure extraction wells (Kirtland AFB, 2018b). This was done to satisfy Step 4 of the U.S. Environmental Protection Agency's (EPA's) systematic evaluation of capture zones at pump and treat systems by providing a supporting line of evidence to the measured data-based capture evaluation (Step 3 [EPA, 2008]). This first version of the model incorporated a relatively simple design, assuming flow into and across the model domain could be represented by a uniform gradient and that the aquifer could be represented by the assignment of a homogeneous horizontal hydraulic conductivity (Kh). The model design would remain simple unless comparison of simulated to observed heads suggested the need to add complexity.

While Version 1 of the model met the criteria for calibration, the results showed a continuous region around interim measure extraction well KAFB-106234 where simulated heads were outside of the acceptable error range. Concerns about the assumption of a uniform gradient causing this error were raised during Hydrologic Working Group meetings. The main concern was that the uniform gradient did not adequately represent the hydrologic dynamics along the northern model boundary representing the division between interim measure well stresses and base water supply stresses as well as northern stresses produced by Albuquerque Bernalillo County Water Utility Authority water supply wells. Therefore,

Version 2 of the flow model was developed for use this quarter, using a different method for assigning model boundary conditions to address both the error and stress concerns.

This appendix presents the updated method for assigning model boundary conditions and the recalibration of the flow model using this method. Unless noted as a change in the following sections, model design and calibration follow the same methods described in Appendix I-7 of the Q2 2018 report (Kirtland AFB, 2018b). This appendix is designed to be an update to that modeling report, not a standalone report.

### 5.3.2 Boundary Assignment Revision

The boundary assignment was revised (Version 2) in Q4 2018 to better reflect pumping stresses external to the domain boundary that could not be addressed with Version 1 of the flow model which had a uniform gradient assigned along its boundaries using constant head nodes. Figure I-6-1 shows the interpolated water levels for the fourth quarter (Q4) 2017 and Q4 2018. Instead of uniform flow directions from recharge in the western quadrants toward discharge in the eastern quadrants, the interpolated water table represents recharge from the west/northwest that shifts and splits within the model domain toward discharges to the east and northeast. Easily seen is the representation of Ridgecrest extraction along the northern boundary of the model while still honoring the water level measurements made at Trumbull 1A and the other northern-most U.S. Geological Survey and project monitoring wells.

The method for assigning boundary conditions in Version 2 of the model attempts to give representation to each of these stresses along the model boundary. The primary reason this was not attempted in Version 1 is that there is very little data available from which to delineate these stresses. Drawdowns at the Albuquerque Bernalillo County Water Utility Authority's Ridgecrest wellfield (closest wellfield to the site area) are not monitored and very few off-Base head measurements are made within a 3-mile radius of the plume area. Numerous head measurements are taken at on-Base locations south of the plume area, but they are mostly located in perched and low permeability aquifer regions and are not taken synoptic with interim measure gauging. The closest available regularly taken head measurements in the unconfined aquifer outside of the base are located at three U.S. Geological Survey monitoring wells: Jerry Cline C located approximately 1.8 miles north of the model boundary, Del Sol Divider 3 located approximately 1.8 miles northwest of the model boundary, and Montessa Park B located approximately 2.3 miles southwest of the model boundary. The two northern wells are known to be north of the Ridgecrest wellfield, therefore, necessitating a need to estimate the drawdown associated with Ridgecrest extractions.

A simple linear regression model was used to estimate the water level in the Ridgecrest wellfield produced by extraction. Assuming that the cone of depression around the wellfield is relatively circular, the heads from Del Sol Divider 3 and Trumbull 1A were used to estimate the water levels at Ridgecrest wells 3, 4, and 5. The distances of each of the extraction wells from the two monitoring wells were calculated and the water level at each well was assumed to be along the slope produced between the two monitoring wells. Table I-6-1 lists the measured head for the two monitoring wells, the calculated distance from each well to the extraction wells and the estimated water level for each extraction well. The measurements from the three regional U.S. Geological Survey monitoring wells and from the three estimated Ridgecrest extraction wells were used in conjunction with the project area head measurements to grid the water table within and outside of the model domain. Interpolated water levels along the model boundary were assigned as constant head nodes in the model design, controlling the water level and flux along the boundary and representing external hydrologic conditions in the aquifer for the given measurement quarter.

#### **5.3.3** Model Recalibration

The change in the method used to estimate the boundary conditions of the model domain necessitated a recalibration of the numerical flow model. As with Version 1 of the model representing Q4 2017 conditions under a uniform gradient (Kirtland AFB, 2018b), calibration of this version of the model was performed by changing the assigned horizontal Kh and the vertical anisotropy (VANI). The assumptions of homogeneous Kh and VANI and of zero areal recharge were maintained and the values for Kh and VANI were allowed to range between the minimum and maximum values produced by the 2015 constant rate aquifer test performed using interim measure extraction well KAFB-106228 (Table I-6-2) (Kirtland AFB, 2016).

Version 1 of the model was calibrated to a single boundary condition based on a gradient estimated for Q4 2017 conditions. This updated version (Version 2) was simultaneously calibrated to the Q4 2017 and the Q4 2018 conditions. The calibration criteria were established as:

- 1. A Normalized Root Mean Squared Derivation of less than 10 percent (%) for the entire model domain.
- 2. Simulated head at each of the three interim measure drawdown monitoring well nests (KAFB-106037, KAFB-106092, and KAFB-106203), matching the lowest observed drawdown in the nest to within 10% of the total head drop measured within the model domain. The acceptable error tolerance was +/- 0.34 feet (ft) and +/- 0.46 ft for Q4 2017 and Q4 2018, respectively.

Thirty-six model simulations, containing different Kh/VANI combinations, were run for both the Q4 2017 and Q4 2018 conditions for a total of 72 calibration runs (Table I-6-3). A total of 19 simulations, with Kh ranging from 110 ft/day to 130 ft/day and VANI ranging from 0.005 to 0.05, produced results meeting the calibration criteria. From these, the simulation with a Kh of 120 ft/day and a VANI of 0.01 was chosen as the best-fit model as it produced the lowest combined error at the three drawdown monitoring nests. Figure I-7-2 shows scatterplots of the simulated versus measured heads for both the Q4 2017 and Q4 2018 conditions. Under Q4 2017 conditions, the simulated heads met the calibration criteria at 62 of the 79 calibration locations (78%) producing a Normalized Root Mean Squared Derivation of 9.4%. Under Q4 2018 conditions, the simulated heads met the calibration criteria for 57 of the 78 calibration locations (73%) producing a Normalized Root Mean Squared Derivation of 9.4%.

Figure I-6-3a shows the spatial distribution of simulation head residuals across the model domain for Q4 2017 conditions. Outside of the interim measure objective area, south of Ridgecrest Drive Southeast, the residuals exceeding the calibration criteria are dispersed and surrounded by calibrated regions showing no grouping that may indicate a flaw in the design of the conceptual model. Small, localized regions where calibration cannot be achieved are expected using a homogeneous model to simulated heads in an aquifer known to have thin, discontinuous lenses of high and low permeability material. However, within the objective area, there does seem to be a more continuous region where simulated heads exceed the calibration criteria. This region is located around the northern side of KAFB-106234, extending clockwise from a region of high simulated head at the KAFB-106235 well nest around to a region of low simulated heads at the KAFB-106219 well nest.

Figure I-6-3b shows the spatial distribution of simulation head residuals across the model domain for Q4 2018 conditions. The same general pattern of errors exists under these conditions with a dispersal of calibrated and uncalibrated regions outside of the objective area and a more continuous and expanded region of error around KAFB-106234. Having the same region express above tolerance error under two different conditions suggests an inadequacy in the conceptual model upon which the model is designed. Given the assumptions contained in the model, the most likely conceptual model change to address this region of error would be in the assumption of homogeneous hydraulic conductivity.

In order to test this hypothesis, a grain-size based permeability analysis of the objective area aquifer was performed. In unconsolidated aquifers, permeability is primarily controlled by the d10, or 10% finer grain size. Using bore logs recording visually determined grain sizes, a three-dimensional d10 grain size model was constructed of the objective area. The aquifer was delineated into eight grain size categories: clay, silt, very fine sand, fine sand, medium sand, coarse sand, very coarse sand, and gravel. The d10 model results were analyzed between an elevation of 4,905 and 4,785 ft above mean sea level, the bottom of which represents the lithology reporting depth from the shallowest reference elevation interval (REI) 4814 monitoring well in the objective area. In this region, the model estimates that sand and gravel make up 80% of the aquifer material, very close to the 85% expected from the literature reviews performed for Appendix I-7 of the Q2 2018 report (Kirtland AFB, 2018b). Fine sand was found to be the most dominant grain size at 47%. Clay and silt were distributed as thin discontinuous lenses and very fine sand through medium sand seemed to be well mixed throughout the aquifer volume. The 6% of coarse sand and gravel, however, showed to be primarily grouped into to relatively continuous lenses.

Figure I-6-4 shows the distribution of coarse sand and gravel in the objective area between the elevations of 4,845 and 4,800 ft above mean sea level. In this region, coarse sand and gravel lenses with thicknesses ranging from 5 to greater than 25 ft are intercepted by interim measure extraction wells KAFB-106228, KAFB-106233, and KAFB-106234 and by base water supply well KAFB-003. The extent and elevation of these high permeability lenses seem to be well correlated with most of the calibration errors seen in both the Q4 2017 and Q4 2018 simulations.

Figure I-6-4a shows the Q4 2017 calibration residuals overlain on the coarse sand and gravel lens locations. All of the simulated heads above the acceptable error tolerance (orange and red dots) are located on the high permeability lens connecting to KAFB-106234 extraction at an elevation of 4,825 ft above mean sea level. It is likely that this error is due to the presence of this lens and that if the lens was incorporated into the model design, this high permeability pathway would channel most of the water extracted from KAFB-106234. This would result in reducing the total drawdown currently simulated at KAFB-106234 and directionalizing the drawdown to the west, northwest decreasing simulated heads in monitoring wells intercepting the lens. The high permeability lens connecting KAFB-003 drawdown to the deeper monitoring wells in the KAFB-106207 nest would have the same effect on KAFB-003 drawdown. By reducing drawdown at depth in both of these extraction wells, the below acceptable simulated heads seen at depth between the two extraction wells should increase. Figure I-6-4a also shows the location of vertical gradients observed in nested monitoring wells. The black stars show where relatively low heads exist in either REI 4838 or REI 4814 monitoring wells causing vertical head differences of 0.5 ft or greater. All of these wells are located on high permeability lenses connecting to either KAFB-106228 or KAFB-106233. It is likely that the addition of these pathways to the numerical model design would allow the model to be calibrated to represent these vertical gradients.

Figure I-6-4b shows the same type of comparison, overlaying Q4 2018 calibration residuals on the high permeability pathways. The distribution of errors is similar suggesting that addition of the high permeability pathways into the numerical model would improve calibration by reducing drawdown at KAFB-106234 and KAFB-003 thereby increasing simulated heads between the extraction wells, directionalizing drawdown along the pathways thereby reducing simulated head at the KAFB-106235 monitoring well nest, and directionalizing drawdown from KAFB-106228 such that simulated heads are reduced in the REI 4838 wells at the KAFb-106088, KAFB-106023, and KAFB-106216 nest allowing simulation of observed vertical gradients.

### 6. TARGET CAPTURE ZONE DELINEATION METHOD

The following text was initially provided in Appendix I-7 of the Q4 2016 Quarterly and Annual Report (Kirtland AFB, 2017a):

The interim measure goal is to reduce the mobility and volume of contaminated media by containing, capturing, and treating contaminated groundwater in the plume north of Ridgecrest Drive SE. The three-dimensional zone of groundwater that must be captured by the interim measure extraction wells (i.e., the Target Capture Zone) is defined as the  $0.05~\mu g/L$  iso-shell for EDB. The iso-shell is defined as the three-dimensional polygon with a periphery concentration of  $0.05~\mu g/L$ . Water chemistry samples from vertically nested wells have shown that EDB in concentrations above the detection limit does not extend throughout the entire thickness of the impacted portion of the aquifer; therefore, a three-dimensional delineation of the Target Capture Zone is required.

Three-dimensional delineation of the Target Capture Zone was performed using C-Tech Mining Visualization System (MVS) software. EDB concentrations from 136 screen intervals were modeled using the Krig\_3D module, which created a hexahedral finite-element grid with kriged nodal values of the EDB dissolved concentrations. The horizontal concentration grid had 69 grid nodes in the X direction and 87 grid nodes in the Y direction that establish a grid spacing of approximately 100-feet in both directions. The vertical concentration grid consisted of 36 nodes spaced approximately 5-feet apart. The X and Y grid spacing ensured that each measured concentration value had a unique grid node location as the minimum distance between screened intervals with similar elevations is 134.5-feet (e.g., wells KAFB-106083 and KAFB-106018). The grid spacing in the Z direction best articulated the open interval of each well screen. Vertical screened intervals ranged from 10- to 30-feet; thus, the 5-foot grid spacing allows the model to represent the top and bottom of each interval.

The other key parameter setting for the Krig\_3D module is the Horizontal/Vertical (H/V) Anisotropy Ratio. This parameter allows the model to consider the effects of anisotropy in the hydraulic conductivity of soil matrices. In most cases, geologic materials are deposited with platy clay minerals oriented horizontally and, thus, flow of water in both the saturated and unsaturated zone can be slower in the vertical direction than in the horizontal direction. Chemical constituents being transported with flowing fluids may, therefore, show a larger degree of spreading in one versus the other direction. The H/V Anisotropy Ratio tells the kriging algorithm what multiplication factor should be used to weight data points located in horizontal and vertical directions away from a given model node. The conceptual model of the aquifer, based on AECOM produced stratigraphic cross sections (AECOM, 2016), represents the aquifer as being predominantly composed of fine- to coarse-grained sands with clay, silt and gravel lenses of varying extent. An H/V Anisotropy Ratio of 30 was used to represent preferential horizontal flow through coarse grain materials.

EDB concentrations were assigned along the entire screen interval for each well sampled. If the screen interval was completely submerged within the saturation zone, the measured concentration was assigned elevations representative of the top, bottom, and 5-foot intervals along the screen length. If the screen interval extended above the saturation zone, the measured concentration was assigned at the water table elevation instead of the top of screen elevation. The lowest reported concentration above detection that was included in the model was  $0.011~\mu g/L$ . Therefore, a detection limit of  $0.01~\mu g/L$  was assumed and nondetect samples were assigned a concentration of one-half of that value ( $0.005~\mu g/L$ ) because the EDB detection limit was not consistent between all measurements.

Figure 5-2 shows the modeled Target Capture Zone from the last four synoptic measuring periods for EDB concentration. The plume volume defined by the  $0.05~\mu g/L$  iso-shell changes between measuring periods as a result of the rising regional water table and interim measure extraction activity. The actual volumetric change is not presented or evaluated in Figure 5-2; it is only provided for graphical visualization. The Target Capture Zone is considered to be dynamic and will continue to be re-modeled with each subsequent measurement period to evaluate performance. Appendix I, Figure I-6-1 shows these four Target Capture Zones in relation to monitoring well screen intervals for graphical analysis of the dataset available for the production of the plume iso-shell.

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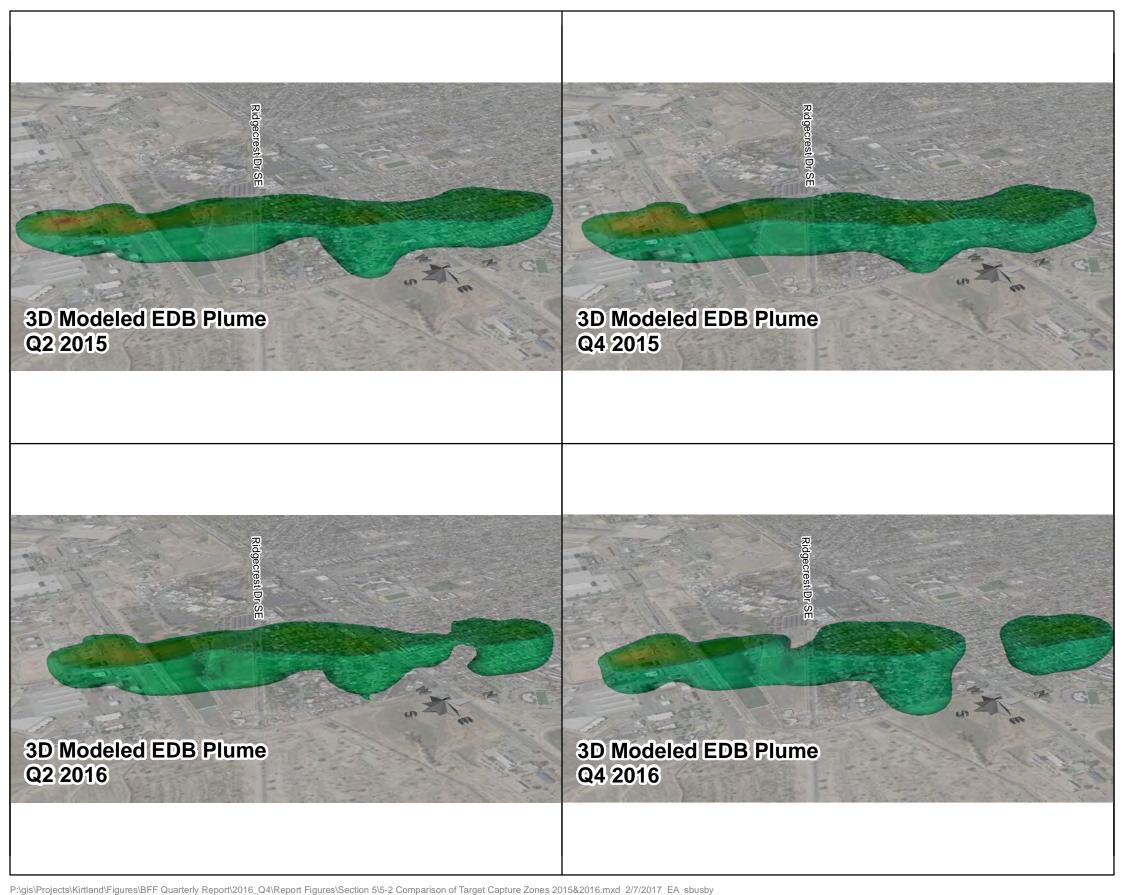
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## Legend



0.05 µg/L EDB Iso-shell



Notes:
Aerial Imagery from 11/1/2015 : Google Earth Pro, 2016
EDB plume model generated with C-Tech MVS
Premier Version 9.94.
3D models exaggerated by a factor of 10.
EDB = ethylene dibromide

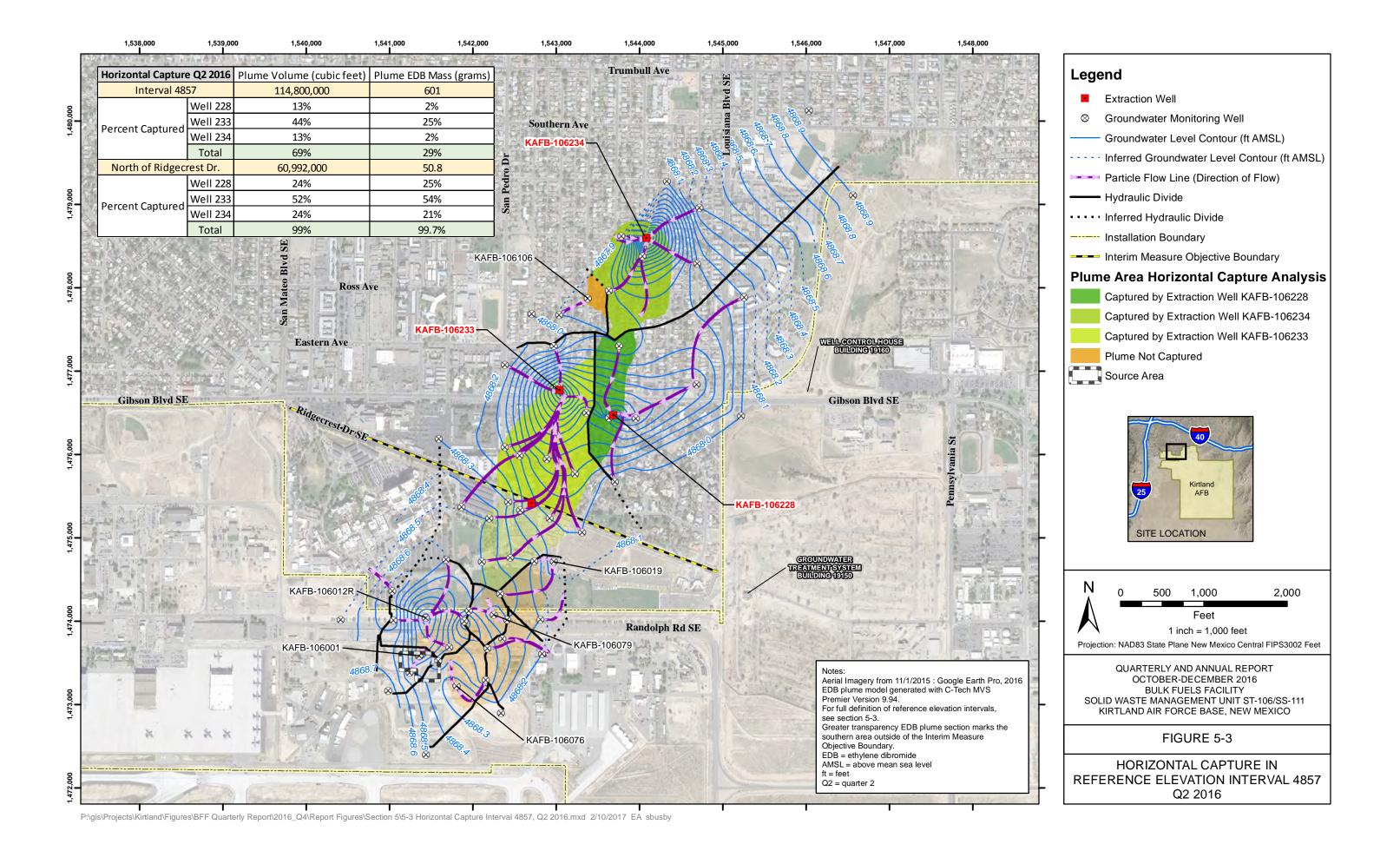
µg/L = microgram(s) per liter

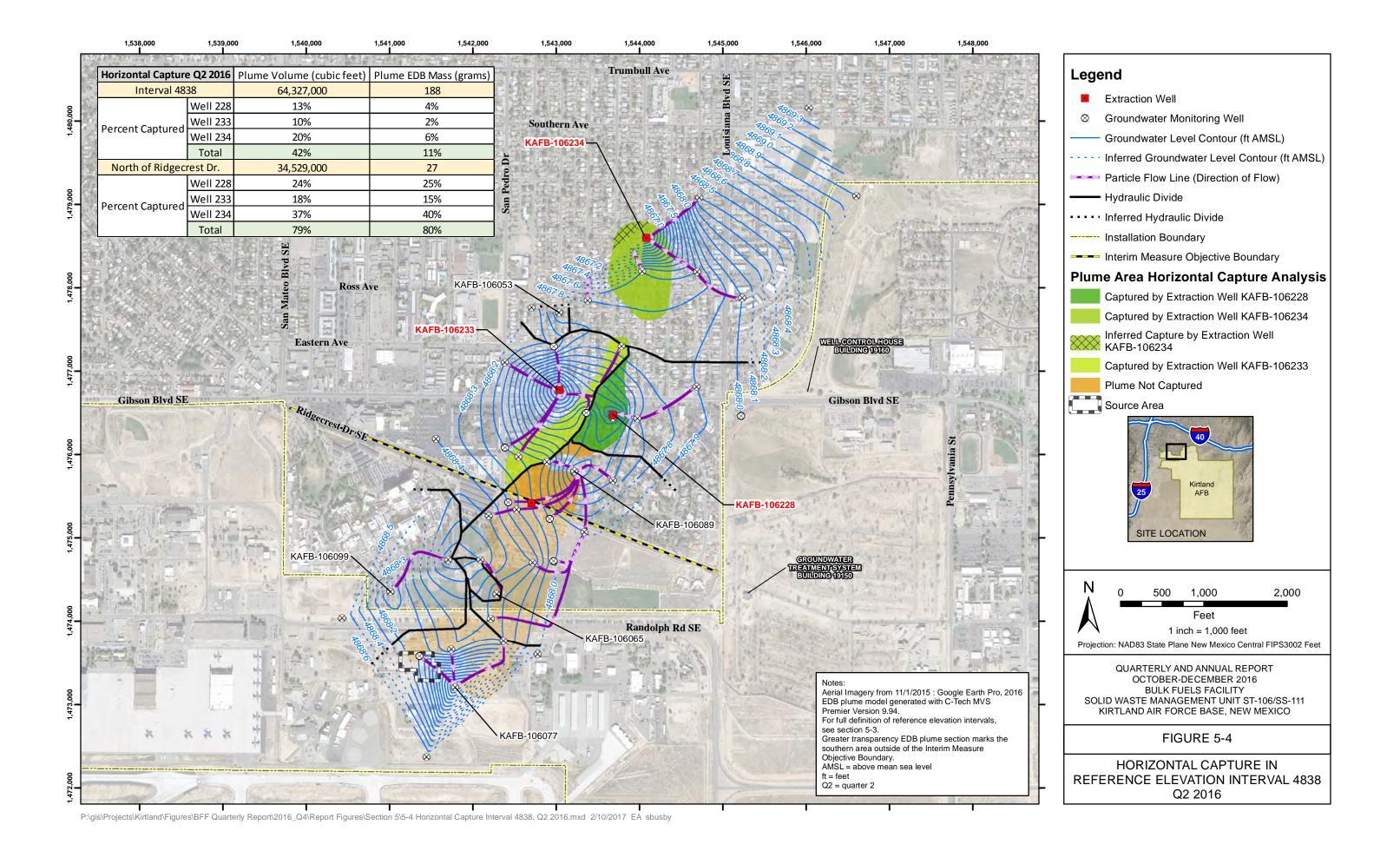
Q2 = quarter 2
Q4 = quarter 4

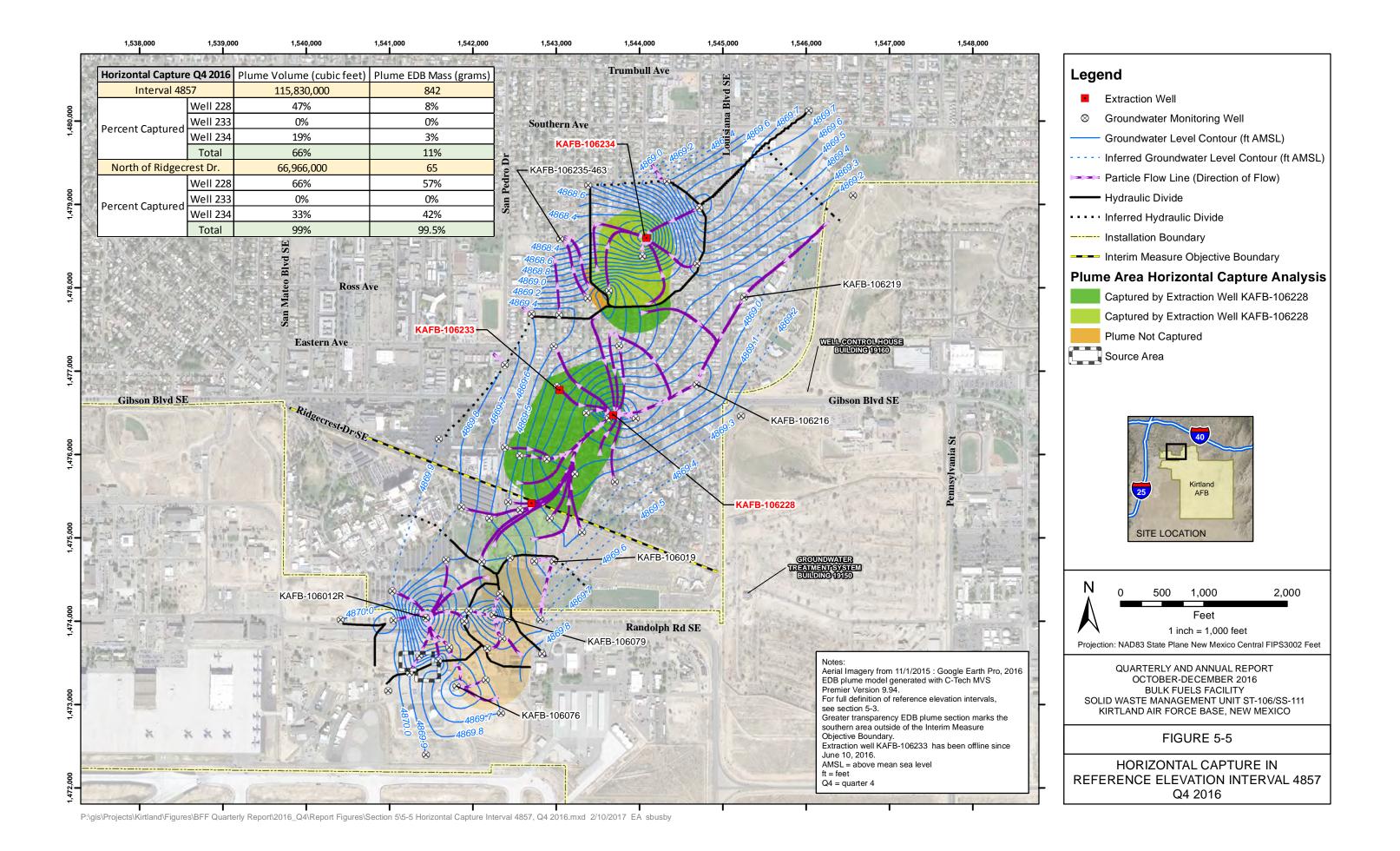
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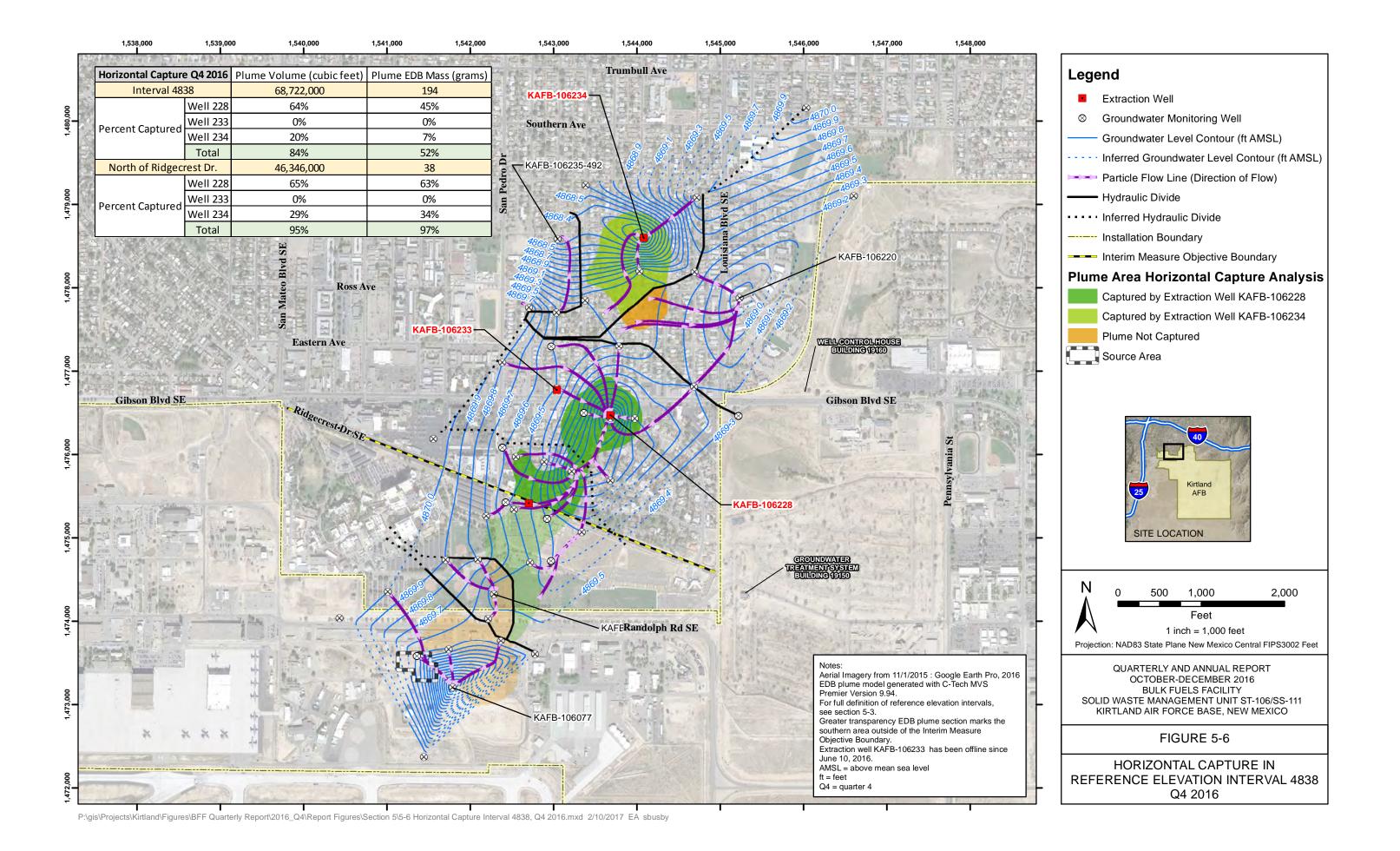
FIGURE 5-2

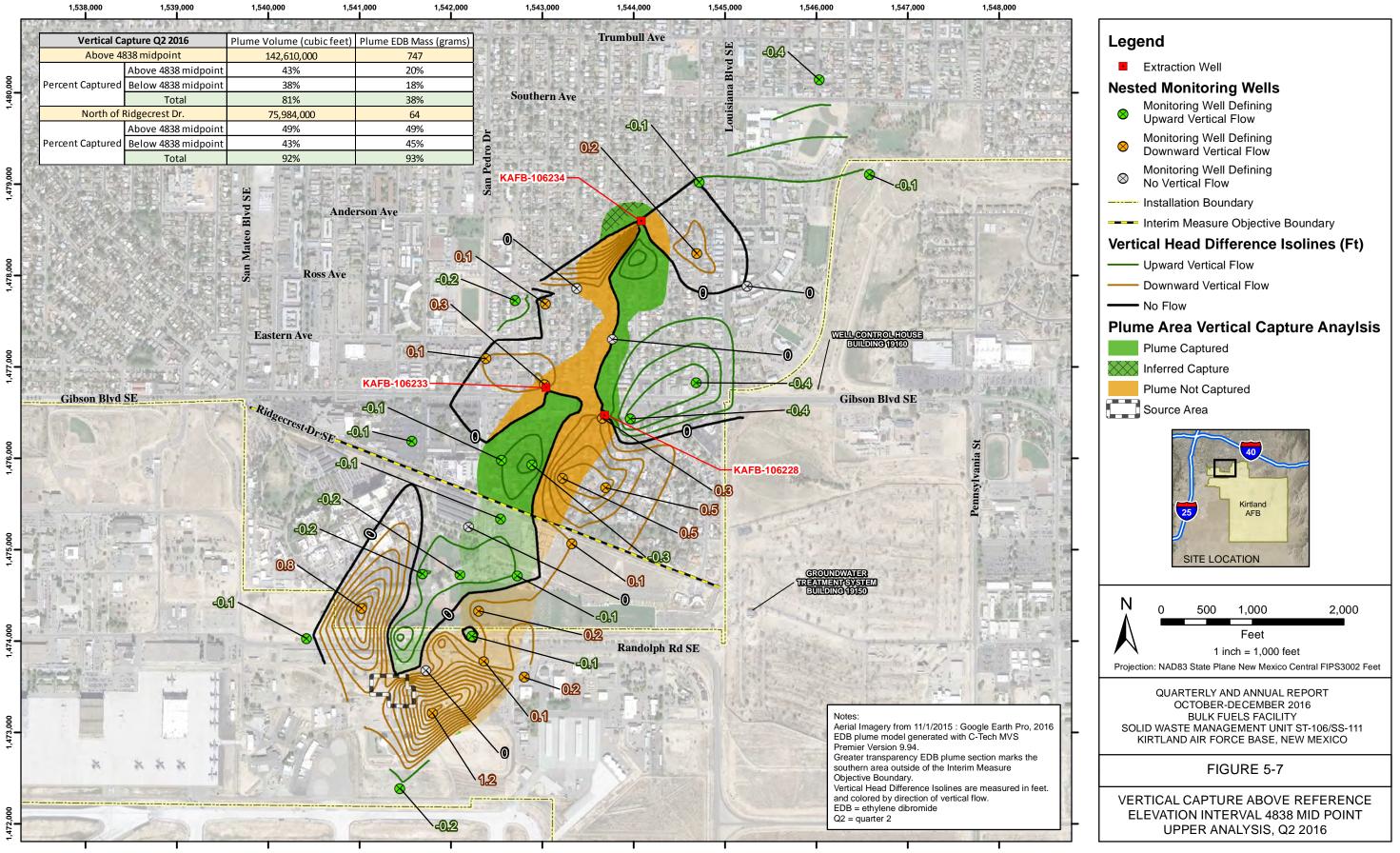
**COMPARISON OF** TARGET CAPTURE ZONES 2015 - 2016



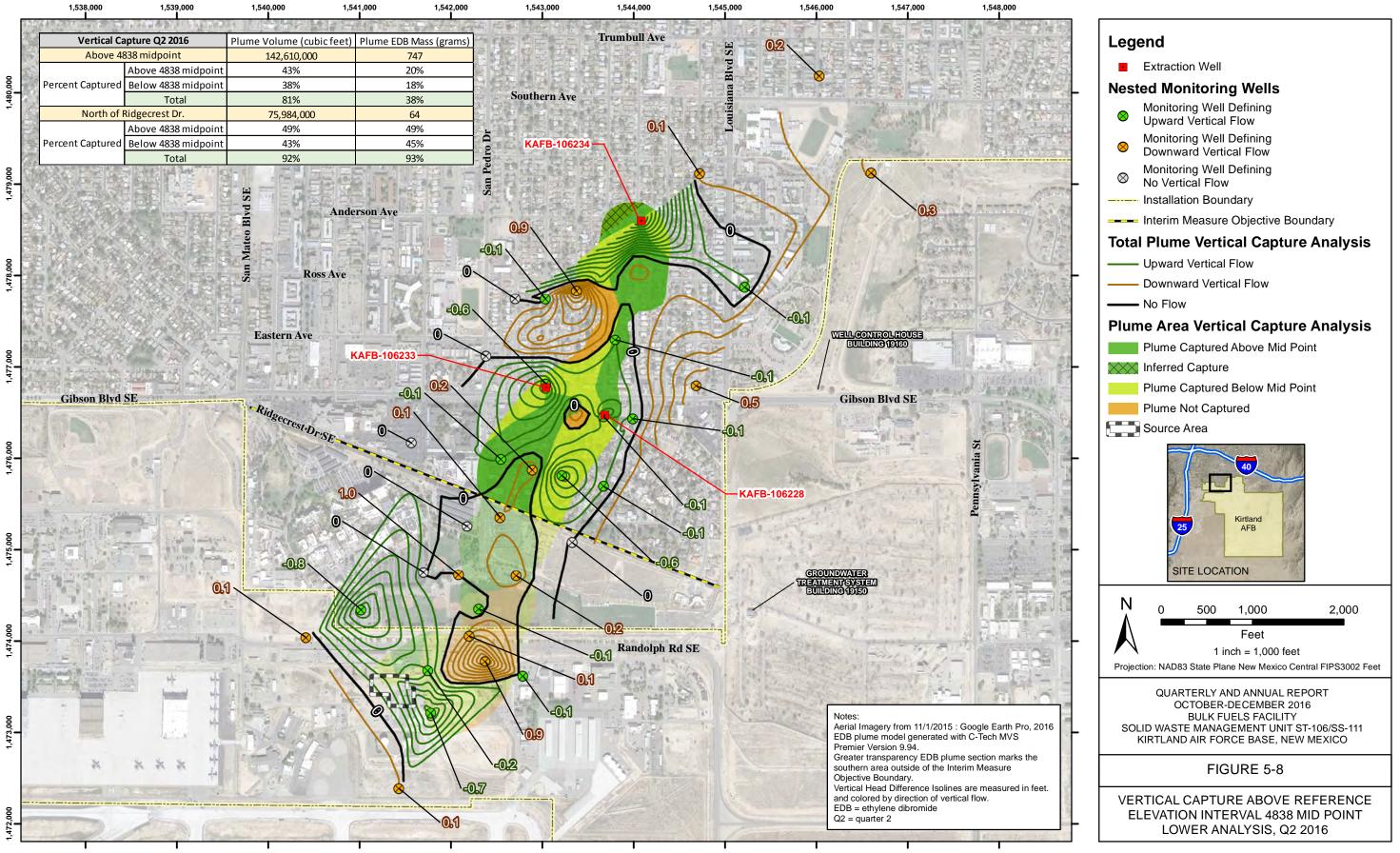




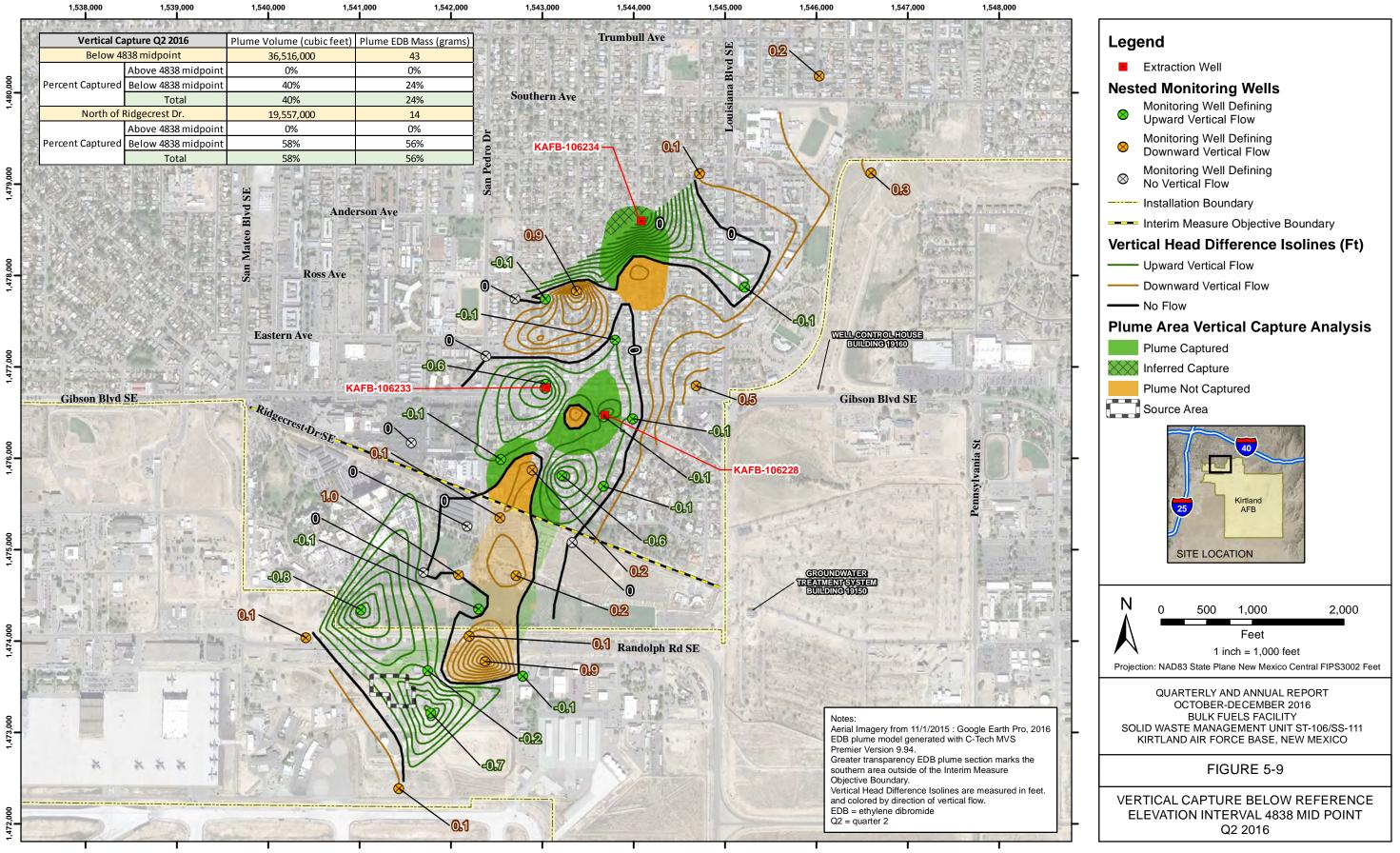




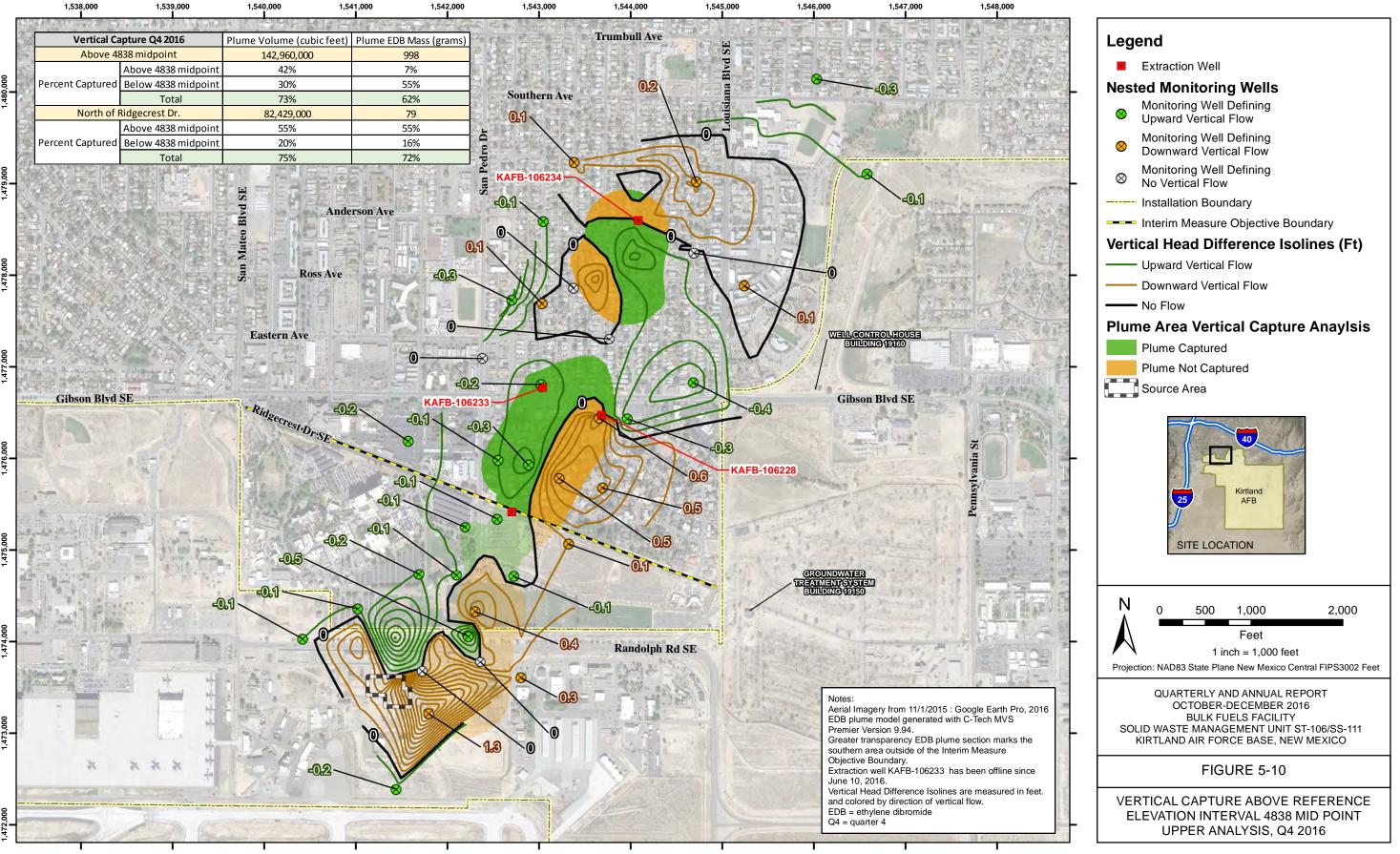
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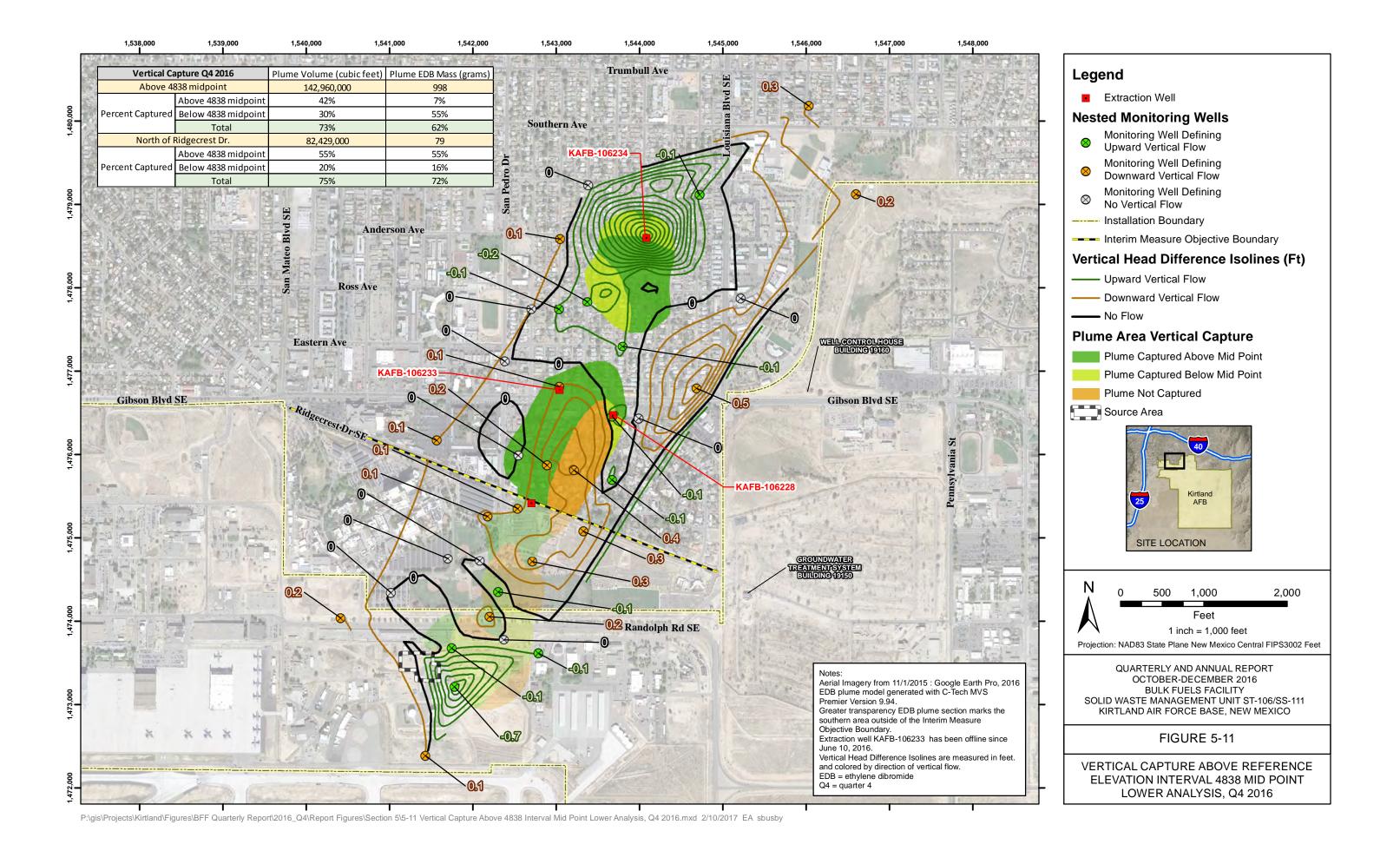
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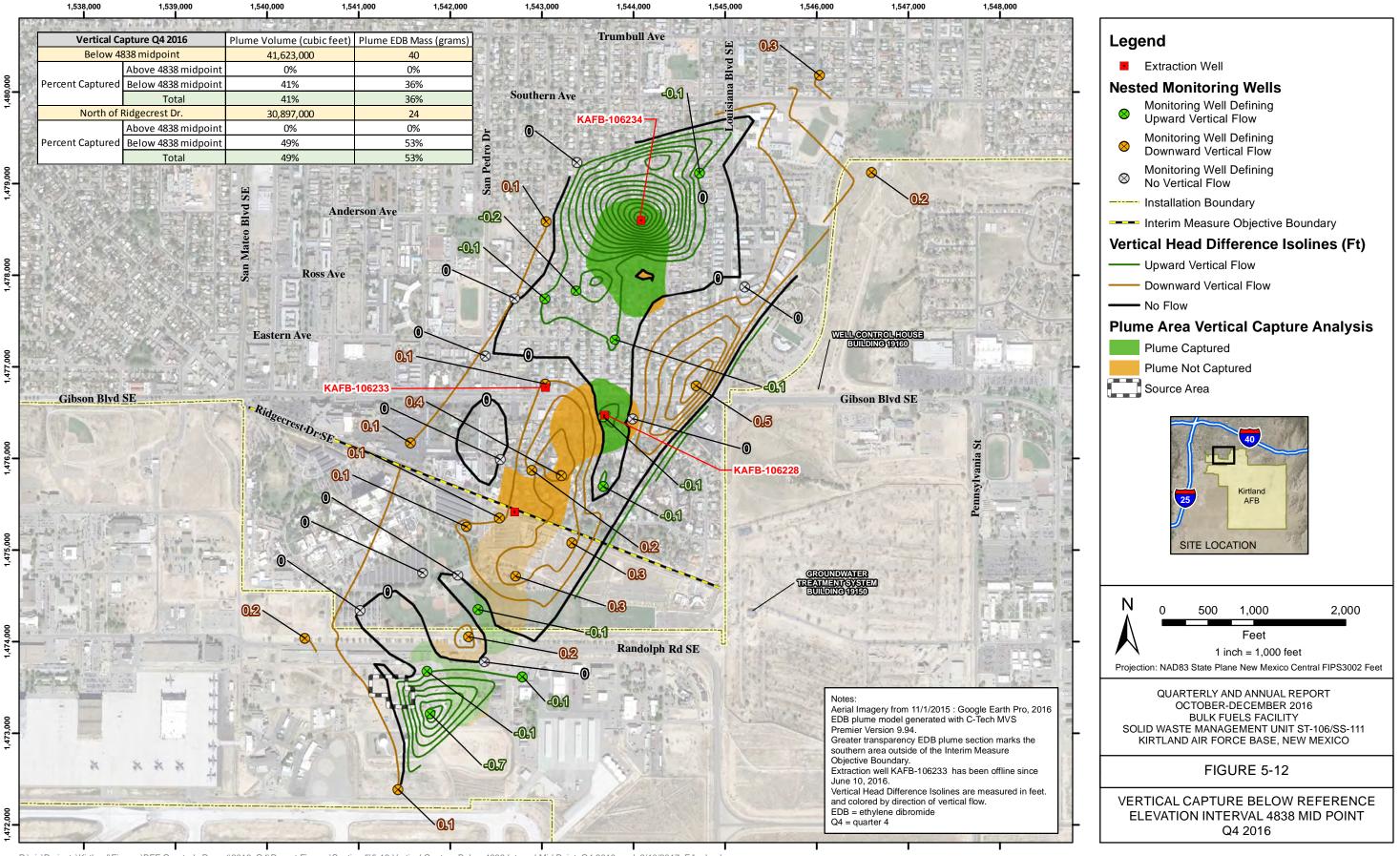


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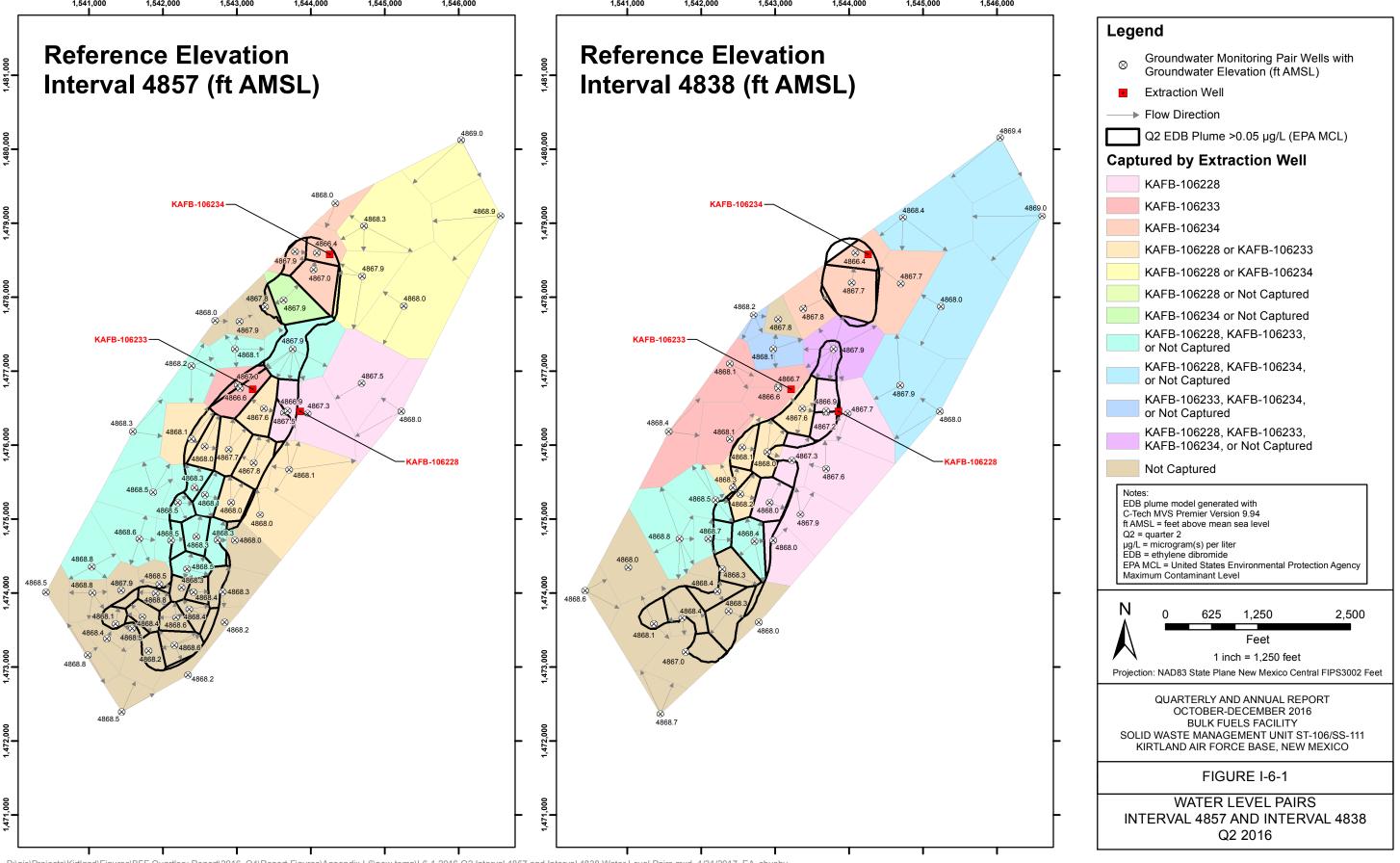


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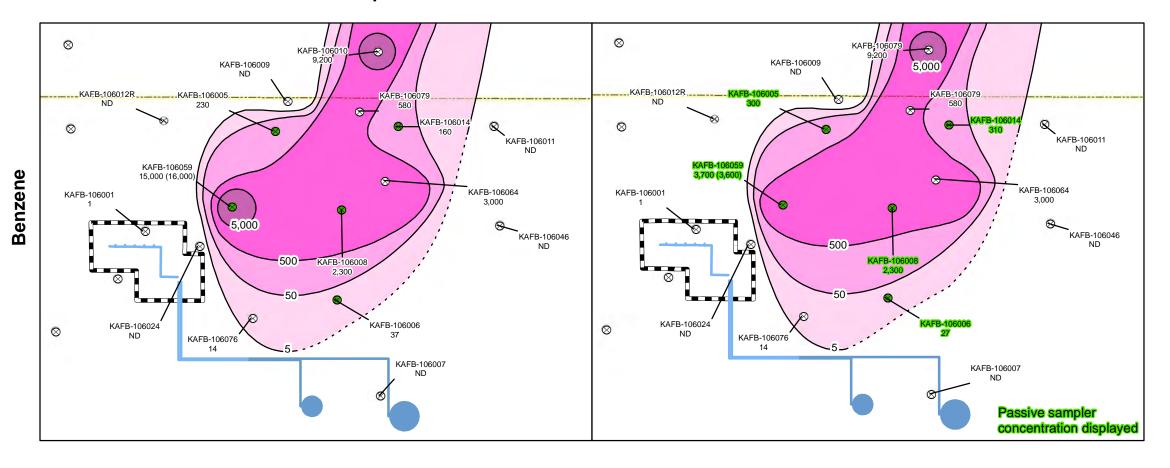


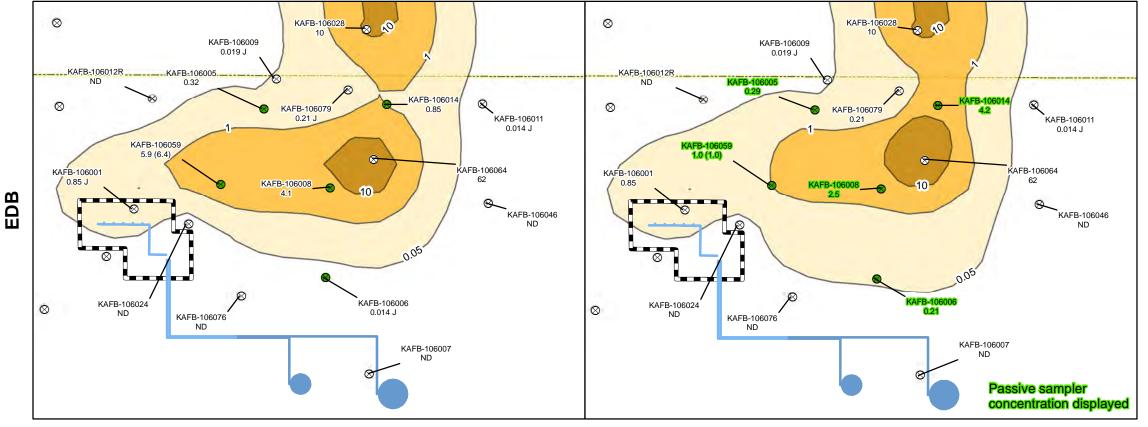
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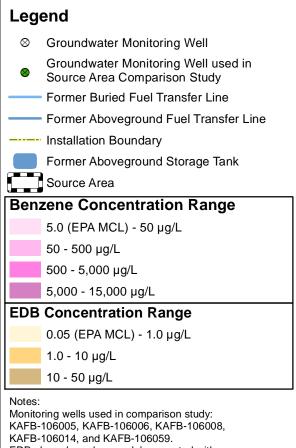


## **Low Flow Grab Samples**

## **Passive Samples**







EDB plume based on model generated with C-Tech MVS Premier Version 9.94.

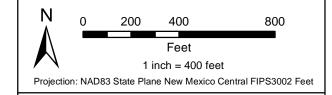
Values in parentheses are duplicate sample results. All units are measured in µg/L.

μg/L = micrograms per liter

EDB = ethylene dibromide ND = nondetect

Q4 = quarter 4 Qualifer(s):

J = denotes the analyte was positively identified, but the associated numerical value is estimated.

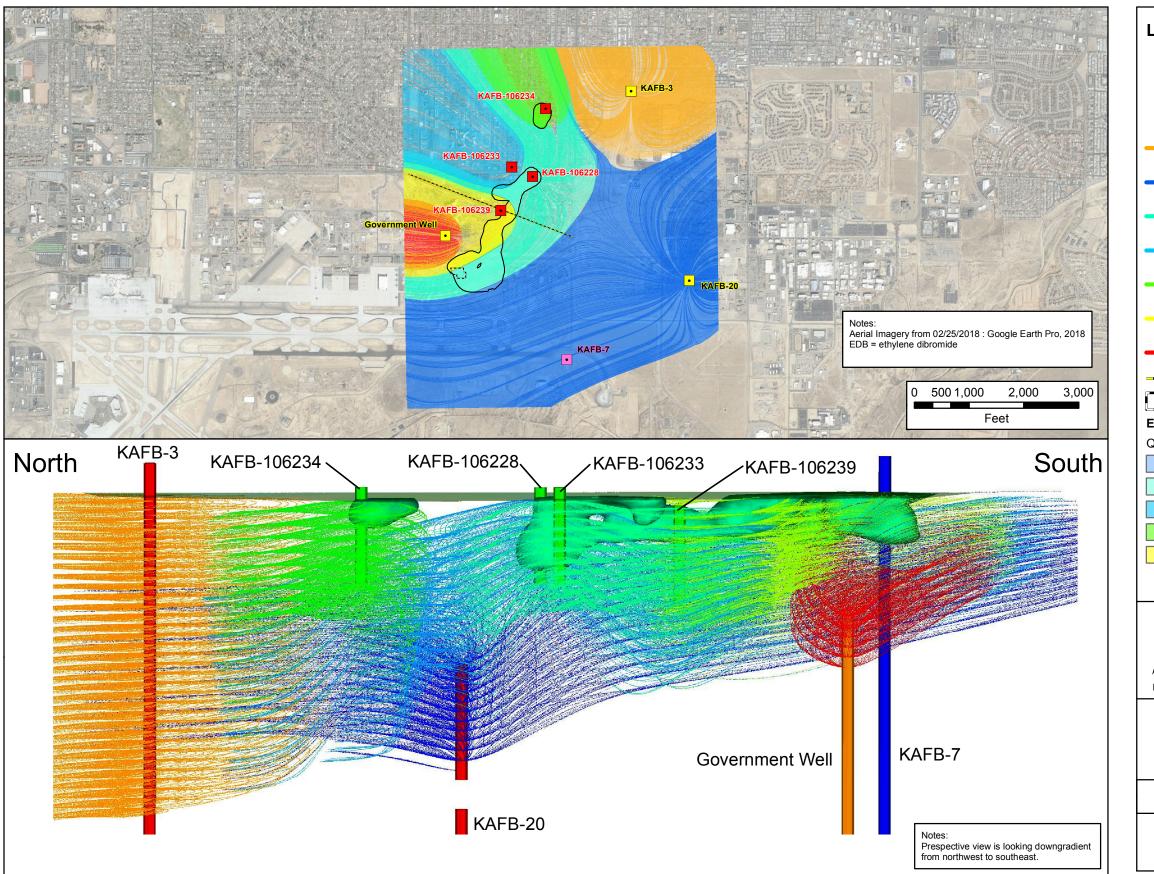


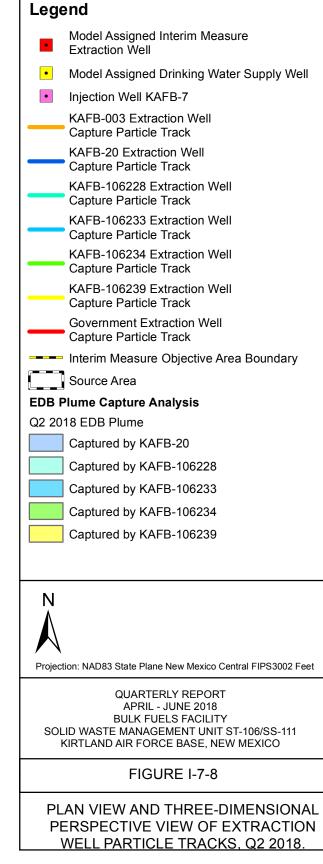
QUARTERLY AND ANNUAL REPORT OCTOBER - DECEMBER 2017 BULK FUELS FACILITY SOLID WASTE MANAGEMENT UNIT ST-106/SS-111 KIRTLAND AIR FORCE BASE, NEW MEXICO

**FIGURE 3-23** 

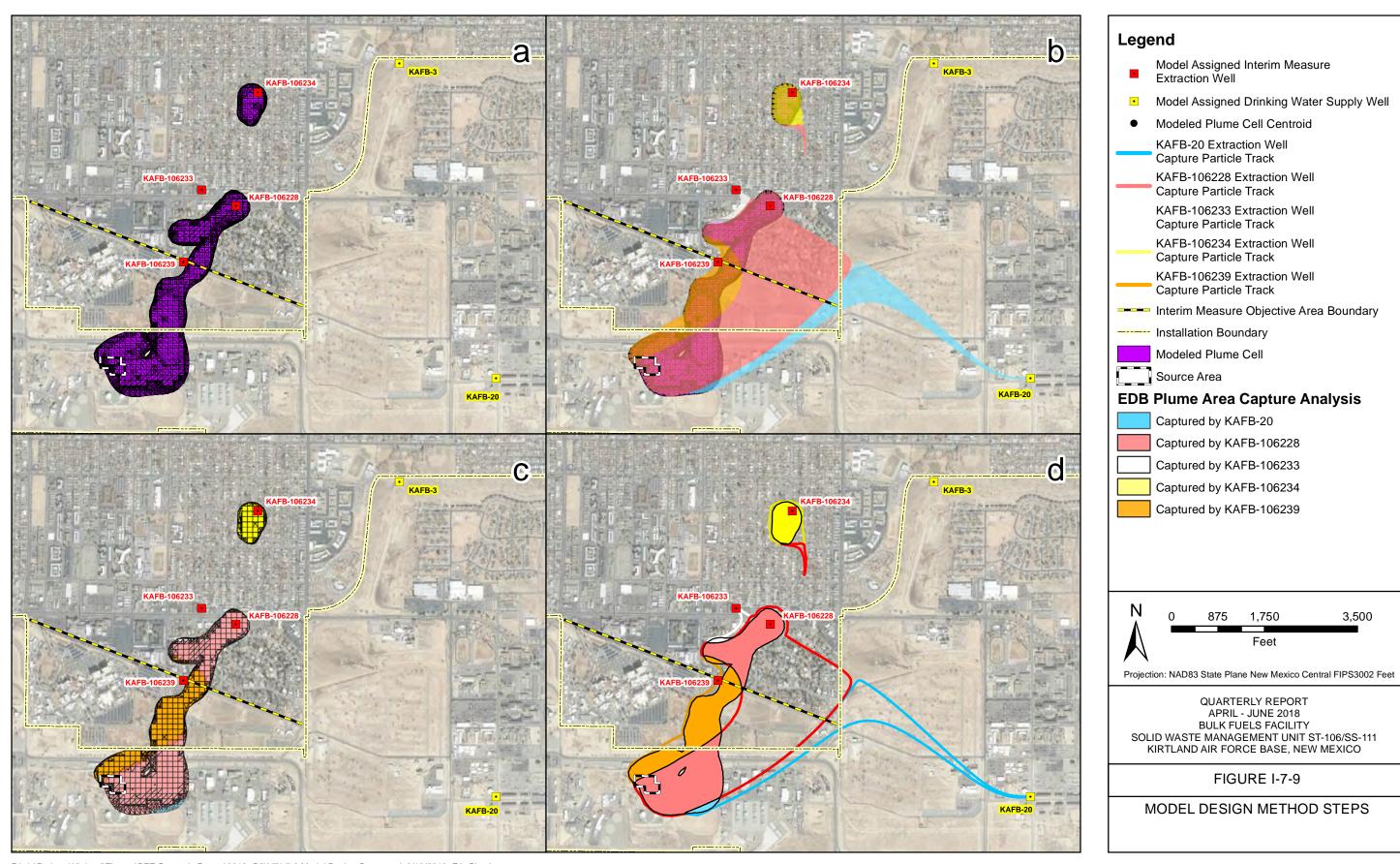
SOURCE AREA WELL COMPARISON BETWEEN LOW FLOW SAMPLES AND PASSIVE SAMPLERS IN REI 4857, Q4 2017

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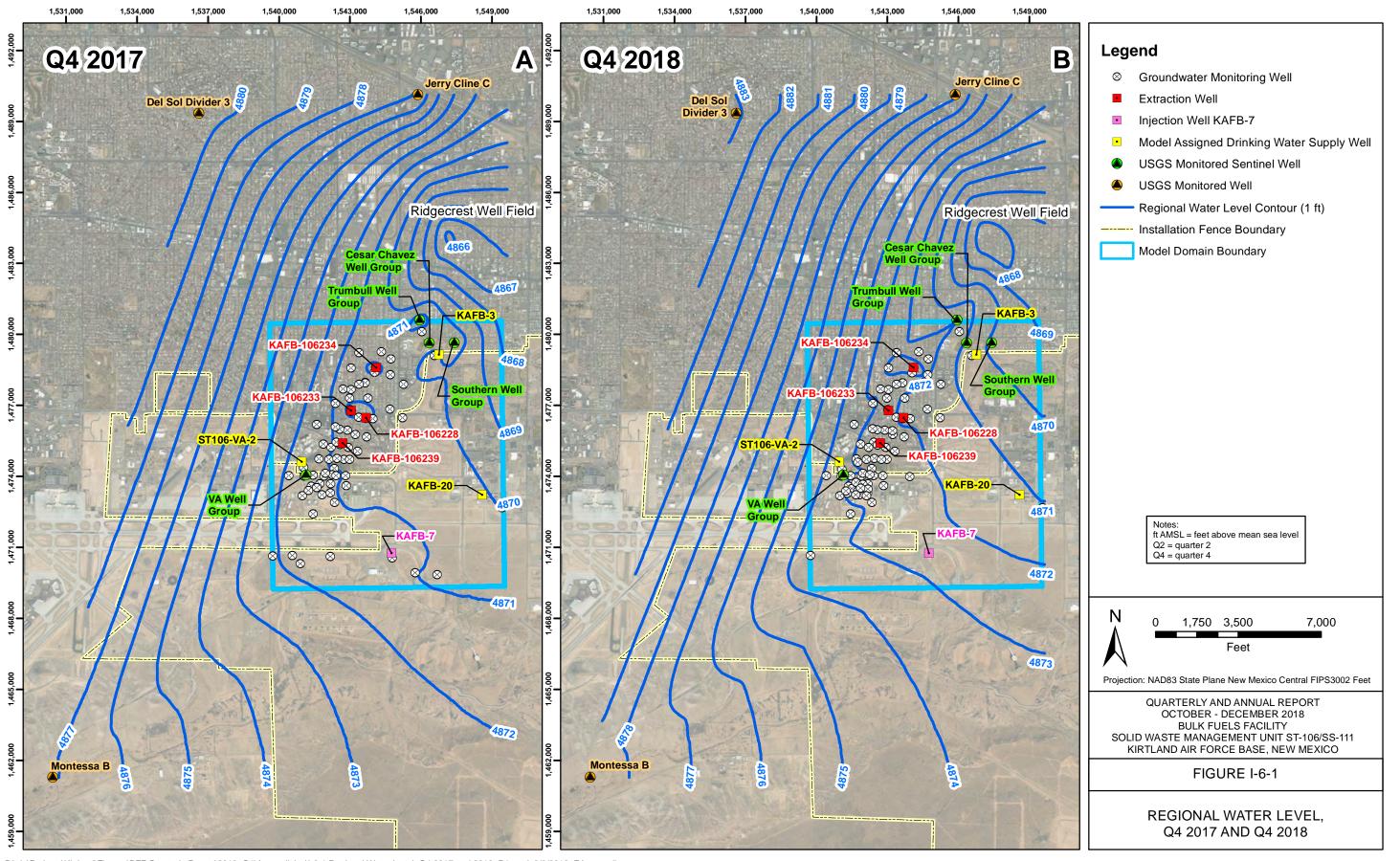


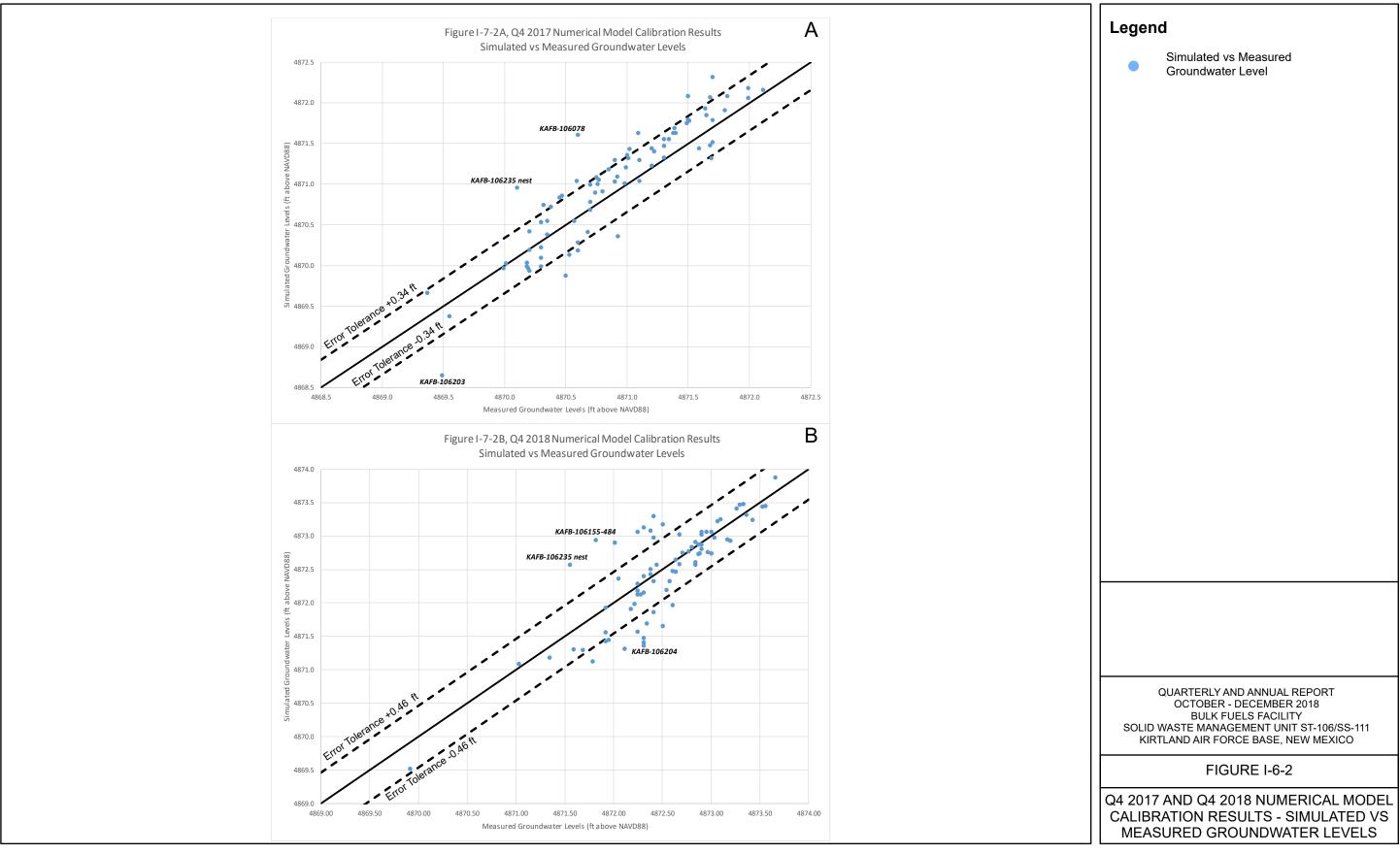
3,500

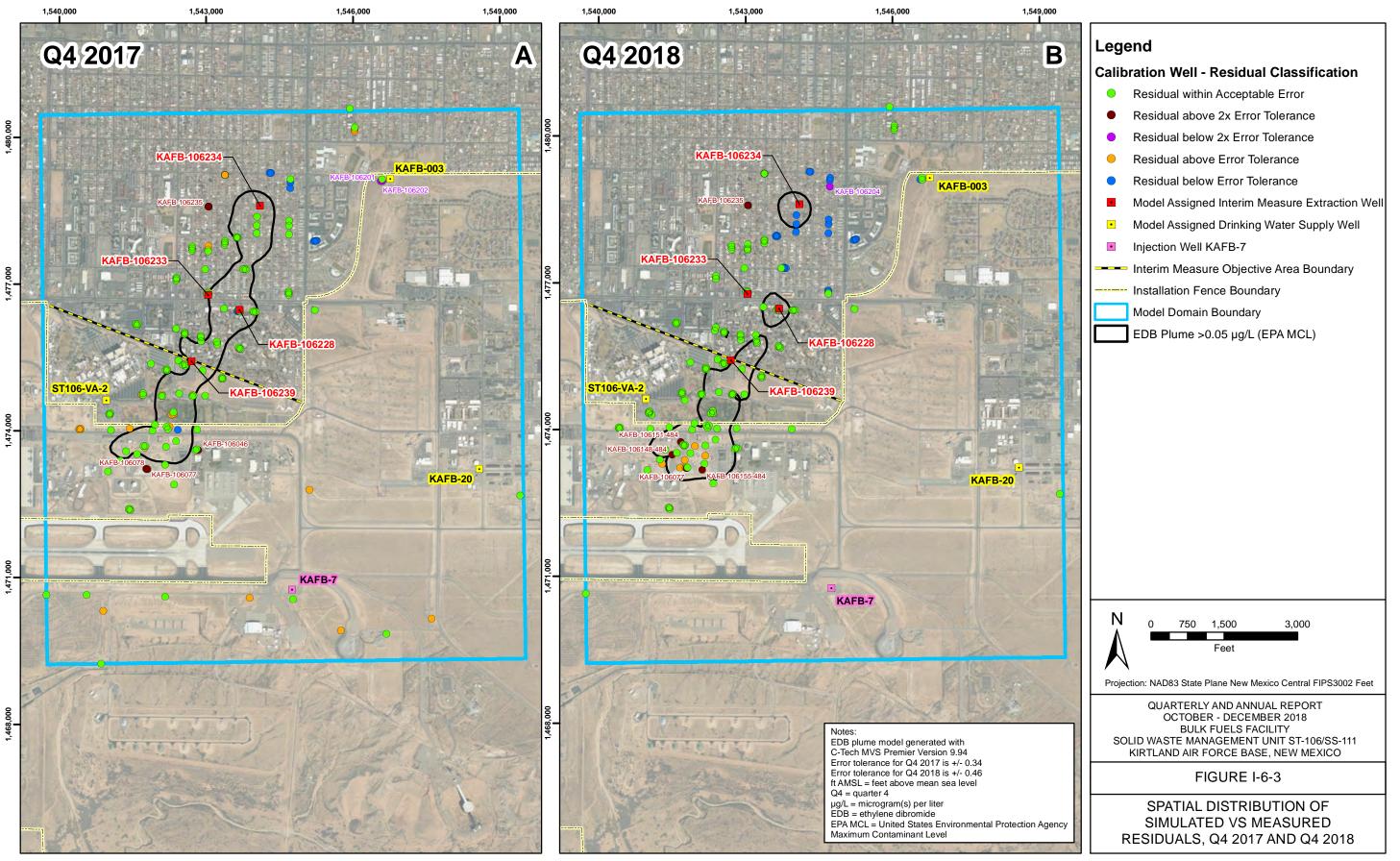
Feet

FIGURE I-7-9

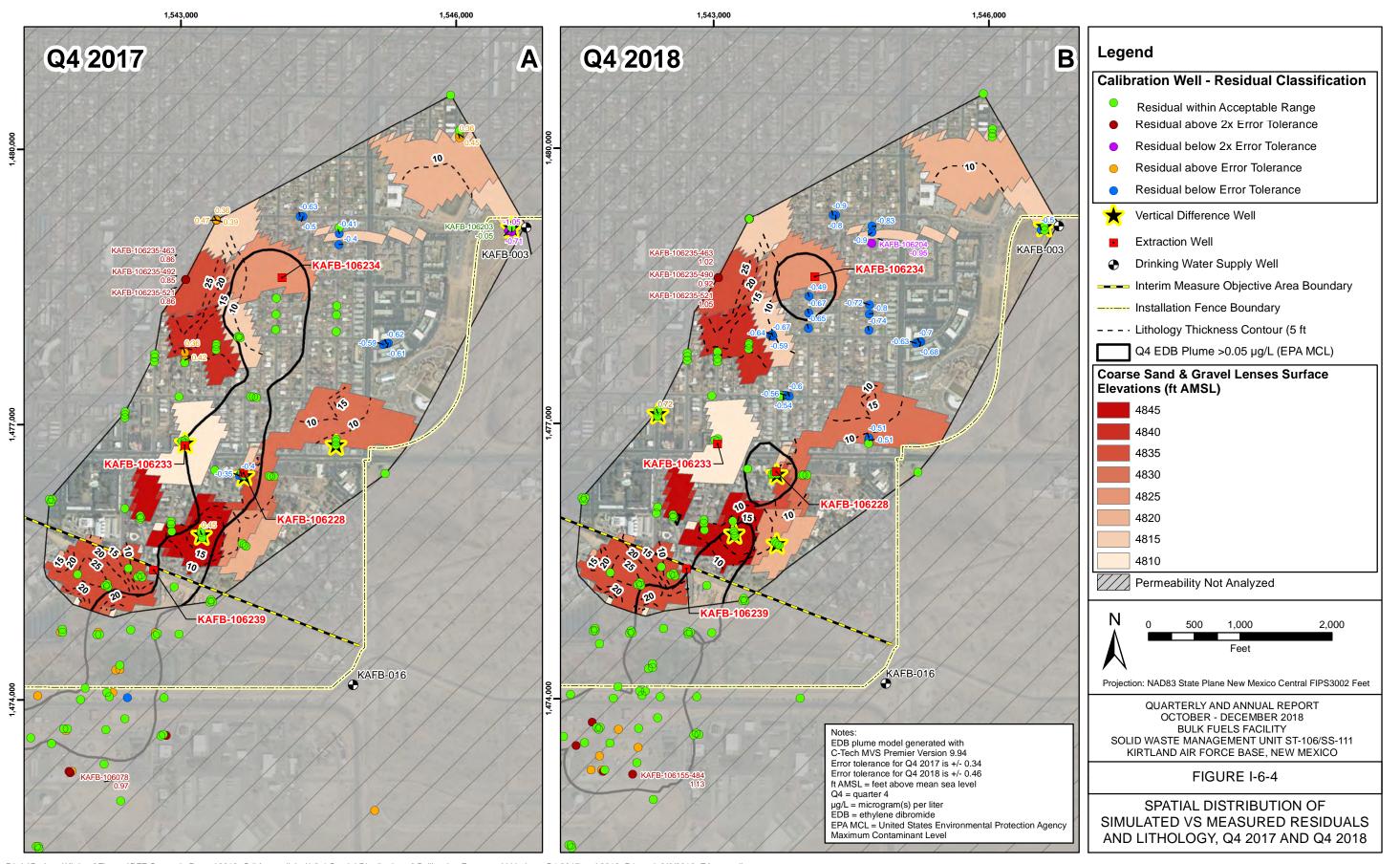
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P:\gis\Projects\Kirtland\Figures\BFF Quarterly Report\2018\_Q4\Appendicies\I-6-3 Spatial Distribution of Calibration Errors, Q4 2017 and 2018\_R1.mxd 3/6/2019 EA eomalia



 $P:\gis\Projects\Kirtland\Figures\BFF\ Quarterly\ Report\2018\_Q4\Appendicies\I-6-4\ Spatial\ Distribution\ of\ Calibration\ Errors\ and\ Lithology,\ Q4\ 2017\ and\ 2018\_R1.mxd\ 3/6/2019\ EA\ eomalia$ 

## **TABLES**

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Table 3-4
Groundwater Monitoring Wells Included in Q4 2016 Monitoring Activities

	Reference Elevation		Date	Screen Interval <sup>a</sup>	Screen Interval <sup>a</sup>	Dedicated Sampling System	Screen Submerged	Estimated Pump Intake Depth (ft	
Well Location ID	Interval (ft AMSL)	Installation Date	Sampled	(ft bgs)	(AMSL)	(Yes/No)?	(Yes/No)?	bags) <sup>b</sup>	Analytical Suite <sup>c</sup>
	· · · · ·				vater Monitoring We	, ,	,		·
KAFB-3411	4857	11/10/1999	11/16/2016	461-504	4879-4836	No	Yes	505.31	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106001	4857/4838	11/10/2000	11/10/2016	483-508	4859-4834	No	Yes	487.83	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106002	4857	3/26/2002	10/20/2016	479-504	4861-4836	Yes	Yes	503.99	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106007	4857	11/14/2007	10/31/2016	484-509	4860-4835	Yes	Yes	504.07	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106015	4857/4838	10/14/2008	10/25/2016	485-510	4855-4830	No	Yes	490.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106016	4857	10/17/2008	10/24/2016	475-500	4864-4839	Yes	Yes	494.73	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106019	4857/4838	12/9/2008	11/7/2016	493-518	4859-4834	No	Yes	497.95	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106020	4857	12/19/2008	10/25/2016	482-507	4859-4834	No	Yes	484.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106021	4857/4838	6/7/2009	10/5/2016	458-483	4856-4831	No	Yes	460.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106022	4857/4838	6/12/2009	10/13/2016	462-487	4856-4831	Yes	Yes	483.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106023	4857	6/27/2009	11/10/2016	473-498	4856-4831	No	Yes	475.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106024	4857	8/3/2009	11/2/2016	481-506	4862-4837	Yes	Yes	502.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106025	4857/4838	12/5/2010	10/5/2016	465-490	4852-4827	No	Yes	467.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106027	4857	5/1/2010	10/24/2016	481-501	4864-4844	Yes	Yes	490.59	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106035	4857	8/9/2011	10/27/2016	452-482	4869-4839	No	No	474.35	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106036	4838	8/5/2011	10/27/2016	481-496	4841-4826	No	Yes	483.80	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106037	4838	7/14/2011	11/8/2016	507-522	4815-4800	No	Yes	509.21	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106039	4838	7/26/2011	10/27/2016	508-523	4840-4825	No	Yes	513.50	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106040	4814	7/19/2011	10/29/2016	530-545	4817-4802	No	Yes	536.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106042	4857	5/31/2011	11/10/2016	469-484	4855-4840	No	Yes	471.06	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106043	4814	5/18/2011	10/10/2016	543-558	4781-4766	Yes	Yes	550.60	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106044	4838	1/7/2011	10/24/2016	504-519	4842-4827	Yes	Yes	511.70 <sup>d</sup>	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106045	4814	1/17/2011	11/14/2016	528-543	4817-4802	No	Yes	535.80 <sup>d</sup>	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106046	4857	4/8/2011	10/31/2016	490-510	4863-4843	Yes	Yes	504.95	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106047	4838	4/8/2011	10/31/2016	512-527	4841-4826	Yes	Yes	519.55	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106048	4814	4/8/2011	11/15/2016	535-550	4818-4803	No	Yes	537.50	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106052	4857	7/25/2011	10/12/2016	449-479	4870-4840	Yes	Yes	472.28	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106053	4838	7/11/2011	10/12/2016	478-493	4841-4826	Yes	Yes	486.10	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106054	4814	6/28/2011	10/12/2016	504-519	4814-4799	Yes	Yes	511.60	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106055	4857	6/24/2011	10/12/2016	465-485	4860-4840	Yes	Yes	479.90	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106057	4838	6/19/2011	10/12/2016	484-499	4841-4826	Yes	Yes	493.05	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106058	4814	6/14/2011	10/13/2016	511-526	4815-4800	Yes	Yes	518.07	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106070	4857	5/23/2011	10/17/2016	460-485	4858-4833	Yes	Yes	474.85	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106071	4814	5/13/2011	10/18/2016	548-563	4773-4758	Yes	Yes	555.43	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106072	4838	5/1/2011	11/3/2016	475-495	4844-4824	No	Yes	477.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106073	4838	5/5/2011	11/14/2016	499-514	4841-4826	No	Yes	501.74	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106074	4814	4/28/2011	11/14/2016	569-584	4772-4757	No	Yes	571.56	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106075	4857	4/17/2011	10/19/2016	480-500	4860-4840	Yes	Yes	494.90	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106082	4857	4/5/2011	11/1/2016	472-492	4863-4843	No	Yes	474.10	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106083	4838	4/15/2011	11/7/2016	495-510	4840-4825	No	Yes	497.62	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106084	4814	4/5/2011	11/1/2016	566-581	4768-4753	No	Yes	571.50	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106085	4857	7/8/2011	10/17/2016	446-476	4871-4841	Yes	No	468.96	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106086	4838	6/26/2011	11/8/2016	476-491	4842-4827	No	Yes	478.03	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106087	4814	6/19/2011	11/8/2016	546-561	4771-4756	No	Yes	548.01	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106088	4857	6/3/2011	10/17/2016	460-480	4864-4844	Yes	Yes	475.06	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106089	4838	5/23/2011	10/15/2016	481-496	4843-4828	Yes	Yes	488.99	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106090	4814	5/23/2011	10/18/2016	555-570	4768-4753	Yes	Yes	562.41	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106091 <sup>e</sup>	4857	6/4/2011	10/13/2016 / 12/15/16	454-474	4860-4840	Yes	Yes	468.98	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106092	4838	5/24/2011	10/17/2016	474-489	4840-4825	Yes	Yes	480.35	VOCs, EDB, metals, anions, alkalinity, FP

March 2017

Table 3-4
Groundwater Monitoring Wells Included in Q4 2016 Monitoring Activities

		<u> </u>		<u> </u>	1			1 1	
Well Location ID	Reference Elevation Interval (ft AMSL)	Installation Date	Date Sampled	Screen Interval <sup>a</sup> (ft bgs)	Screen Interval <sup>a</sup> (AMSL)	Dedicated Sampling System (Yes/No)?	Screen Submerged (Yes/No)?	Estimated Pump Intake Depth (ft bags) <sup>b</sup>	Analytical Suite <sup>c</sup>
KAFB-106093	4814	5/24/2011	10/13/2016	544-559	4770-4755	Yes	Yes	550.38	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106094	4857	6/26/2011	10/20/2016	484-504	4861-4841	Yes	Yes	499.11	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106095	4838	6/24/2011	10/19/2016	504-519	4841-4826	Yes	Yes	511.03	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106096	4814	6/7/2011	10/20/2016	576-591	4769-4754	Yes	Yes	583.75	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106103	4838	6/21/2011	10/18/2016	485-500	4844-4829	Yes	Yes	492.46	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106104	4814	6/15/2011	10/18/2016	510-525	4818-4803	Yes	Yes	517.41	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106105	4838	8/19/2011	11/2/2016	484-499	4838-4823	No	Yes	486.06	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106106	4857	8/10/2011	10/11/2016	454-484	4868-4838	Yes	Yes	476.17	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106107	4814	8/30/2011	11/10/2016	510-525	4812-4797	No	Yes	512.27	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106212	4814	2/17/2015	10/31/2016	543-558	4779-4764	No	Yes	453.97	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106213	4857	2/10/2015	10/13/2016	448-478	4877-4847	Yes	No	475.30	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106214	4838	3/9/2015	10/17/2016	478-493	4848-4833	Yes	Yes	490.08	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106215	4814	4/28/2015	11/7/2016	547-562	4779-4764	No	Yes	549.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106219	4857	3/12/2015	10/6/2016	463-493	4877-4847	Yes	No	475.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106220	4838	3/12/2015	10/6/2016	493-508	4847-4832	Yes	Yes	490.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106221	4814	6/5/2015	10/6/2016	561-576	4779-4764	Yes	Yes	554.40	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106225	4857	1/19/2015	10/11/2016	450-480	4876-4846	Yes	No	474.70	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106226	4838	2/3/2015	11/8/2016	480-495	4847-4832	No	Yes	482.14	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106227	4814	5/6/2015	10/11/2016	548-563	4780-4765	Yes	Yes	554.00	VOCs, EDB, metals, anions, alkalinity, FP
		1 0///00//	101110010		adient Proximal Well			1 40-0- 1	
KAFB-106029	4857	6/4/2011	10/4/2016	451-471	4860-4840	No	Yes	465.35	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106030	4838	5/25/2011	10/4/2016	469-484	4842-4827	Yes	Yes	476.97	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106031	4814	5/25/2011	10/4/2016	496-510	4815-4801	Yes	Yes	502.49	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106032	4857	6/24/2011	10/26/2016	456-476	4862-4842	No	Yes	470.74	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106033	4838	6/24/2011	10/26/2016	477-492	4841-4826	No	Yes	480.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106034	4814	6/24/2011	10/26/2016	502-517	4817-4802	Yes	Yes	509.33	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106049	4857	5/13/2011	10/11/2016	457-477	4859-4839	No	Yes	471.50	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106050 KAFB-106051	4838 4814	5/2/2011 4/26/2011	10/11/2016	474-489 500-515	4842-4827 4816-4801	Yes Yes	Yes Yes	482.57 508.87	VOCs, EDB, metals, anions, alkalinity, FP
			10/11/2016						VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106201	4857	10/4/2012	10/10/2016	487-517	4868-4838	No	Yes	502.00 <sup>d</sup>	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106202	4838	9/23/2012	10/10/2016	517-532	4838-4823	Yes	Yes	521.77	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106203	4814	9/9/2012	10/10/2016	620-635	4735-4720	Yes	Yes	627.50 <sup>d</sup>	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106204	4857	8/29/2012	10/10/2016	462-492	4871-4841	No	No	477.55 <sup>d</sup>	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106205	4838	8/21/2012	10/10/2016	492-507	4841-4826	Yes	Yes	500.00 <sup>d</sup>	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106206	4814	8/9/2012	10/10/2016	593-608	4741-4726	Yes	Yes	600.85 <sup>d</sup>	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106207	4857	8/22/2012	10/25/2016	473-503	4872-4842	No	No	488.00 <sup>d</sup>	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106208	4838	8/16/2012	10/10/2016	503-518	4841-4826	No	Yes	510.50 <sup>d</sup>	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106209	4814	8/7/2012	10/25/2016	603-617	4741-4727	No	Yes	610.00 <sup>d</sup>	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106216	4857	2/10/2015	10/13/2016	455-485	4879-4849	Yes	No	475.08	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106217	4838	2/17/2015	11/7/2016	485-500	4849-4834	No	Yes	487.06	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106218	4814	5/26/2015	10/13/2016	552-567	4781-4766	Yes	Yes	554.58	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106222	4857	1/15/2015	10/12/2016	458-488	4875-4845	Yes	No	475.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106223	4838	2/17/2015	10/12/2016	488-503	4846-4831	Yes	Yes	489.50	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106224	4814	5/15/2015	10/12/2016	555-570	4780-4765	Yes	Yes	554.58	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106231	4857	9/8/2015	10/3/2016	440-475	4887-4852	Yes	No	470.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106232	4814	9/1/2015	10/3/2016	503-518	4824-4809	No	Yes	503.00	VOCs, EDB, metals, anions, alkalinity, FP
	<u> </u>				Affairs Proximal We				, , , , <del>, , , , , , , , , , , , , , , </del>
KAFB-106003	4857	1/25/2003	10/24/2016	476-501	4861-4836	No	Yes	501.70	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106004	4857	1/4/2006	11/15/2016	484-509	4859-4834	No	Yes	488.77	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106013	4857	9/19/2008	11/9/2016	486-511	4862-4837	No	Yes	491.72	VOCs, EDB, metals, anions, alkalinity, FP

Table 3-4
Groundwater Monitoring Wells Included in Q4 2016 Monitoring Activities

		1		T	1	1		1	
Well Location ID	Reference Elevation Interval (ft AMSL)	Installation Date	Date Sampled	Screen Interval <sup>a</sup> (ft bgs)	Screen Interval <sup>a</sup> (AMSL)	Dedicated Sampling System (Yes/No)?	Screen Submerged (Yes/No)?	Estimated Pump Intake Depth (ft bags) <sup>b</sup>	Analytical Suite <sup>c</sup>
KAFB-106097	4838	4/27/2011	11/9/2016	506-521	4842-4827	No	Yes	508.14	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106098	4814	4/17/2011	11/9/2016	531-546	4817-4802	No	Yes	533.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106099	4838	5/12/2011	11/2/2016	501-516	4842-4827	No	Yes	503.11	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106100	4814	5/3/2011	10/19/2016	526-541	4817-4802	No	Yes	533.47	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106101	4838	2/21/2011	10/24/2016	496-511	4841-4826	No	Yes	503.22	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106102	4814	3/3/2011	11/1/2016	521-534	4816-4803	No	Yes	526.00	VOCs, EDB, metals, anions, alkalinity, FP
					urce Area Wells				•
KAFB-106005	4857	1/22/2007	11/15/2016	479-504	4865-4840	No	Yes	484.04	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106006	4857	10/31/2007	11/8/2016	483-508	4866-4841	No	Yes	484.60	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106008	4857	11/21/2007	11/17/2016	486-511	4863-4838	No	Yes	491.10	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106009	4857	11/28/2007	11/3/2016	480-505	4865-4840	No	Yes	485.70	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106010	4857	12/6/2007	11/16/2016	483-508	4860-4835	No	Yes	485.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106011	4857	9/23/2008	10/24/2016	486-511	4864-4839	Yes	Yes	505.83	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106012R	4857	4/23/2014	11/8/2016	465-495	4877-4847	No	No	495.52	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106014	4857	10/3/2008	11/16/2016	486-511	4861-4836	No	Yes	491.17	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106028	4857	3/19/2012	10/19/2016	486-510	4863-4839	Yes	Yes	506.80	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106059	4857	4/7/2011	11/14/2016	483-503	4862-4842	No	Yes	488.60	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106060	4838	4/16/2011	10/20/2016	503-518	4842-4827	Yes	Yes	510.29	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106061	4814	4/8/2011	10/20/2016	573-588	4772-4757	Yes	Yes	580.20	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106062	4814	3/19/2011	10/24/2016	575-590	4773-4758	Yes	Yes	582.70	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106063	4838	4/8/2011	11/2/2016	505-520	4844-4829	No	Yes	510.38	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106064	4857	3/24/2011	11/15/2016	485-505	4863-4843	No	Yes	490.18	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106065	4838	5/17/2011	10/19/2016	508-523	4841-4826	Yes	Yes	515.35	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106066	4814	5/16/2011	10/19/2016	575-590	4774-4759	Yes	Yes	583.06	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106067	4857	5/11/2011	10/19/2016	485-505	4863-4843	Yes	Yes	499.99	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106068	4814	5/2/2011	10/17/2016	580-595	4767-4752	Yes	Yes	587.41	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106069	4838	5/1/2011	11/1/2016	506-521	4841-4826	No	Yes	508.08	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106076	4857	4/8/2011	11/21/2016	480-500	4865-4845	No	Yes	482.14	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106077	4838	4/8/2011	11/16/2016	504-519	4841-4826	No	Yes	506.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106078	4814	4/8/2011	11/16/2016	573-588	4772-4757	Yes	Yes	581.01	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106079	4857	3/22/2011	10/20/2016	483-503	4864-4844	Yes	Yes	498.78	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106080	4838	4/17/2011	10/20/2016	503-518	4843-4828	Yes	Yes	511.77	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106081	4814	4/16/2011	10/20/2016	574-589	4772-4757	Yes	Yes	582.34	VOCs, EDB, metals, anions, alkalinity, FP
'		<del>'</del>			Signal Wells	· ·		· · · · · · · · · · · · · · · · · · ·	
KAFB-106017	4857/4838	11/19/2008	10/18/2016	482-507	4857-4832	Yes	Yes	501.56	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106018	4857/4838	11/24/2008	10/18/2016	476-501	4857-4832	Yes	Yes	495.70	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106038	4857	8/5/2011	11/15/2016	478-508	4870-4840	No	No	509.27	VOCs, EDB, metals, anions, alkalinity, FP

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## Table 3-4 Groundwater Monitoring Wells Included in Q4 2016 Monitoring Activities

AMSL = above mean sea level

bgs = below ground surface

EDB = ethylene dibromide

FP = field parameter

ft = foot/feet

ID = identification

Q = quarter

VOC = volatile organic compound

<sup>&</sup>lt;sup>a</sup> Screen interval is rounded to the nearest foot.

<sup>&</sup>lt;sup>b</sup> Portable equipment sampling depths are estimated to the nearest half foot due to slight inaccuracies with the mechanism measuring the pump setting in the field

<sup>&</sup>lt;sup>c</sup> The analytical methods for EDB and VOCs are 8011 and 8260C, respectively. Metals analyses consisted of select total metals (arsenic, calcium, lead, potassium, magnesium, and sodium by analytical method 6020A/6010C and select and dissolved metals (iron and manganese) (6010C). Anions analysis consisted of ammonia by method 4500NH3B/C, bromide by method 300.0A, chloride by method 300.0A, nitrate/nitrite nitrogen by method 353.2, sulfate by method 353.2, sulfate by method 4500 S2CF. FP include pH, specific conductivity, dissolved oxygen, oxidation reduction potential, temperature, and turbidity.

<sup>&</sup>lt;sup>d</sup> Pump setting estimated as half-way between top and bottom of screen.

<sup>&</sup>lt;sup>e</sup> Due to fuel contamination at the location of well at KAFB-106091, the well was resampled for EDB, benzene, ethylbenzene, toluene, and total xylenes on December 15, 2016

Table 5-8
Horizontal Capture Anaylsis for the Interim Measure Objective Area

2016		Plui	me <sup>a</sup>	Horizonta	l Capture <sup>a</sup>	Percent (	Captured
Sample		Volume	Mass	Volume	Mass		
Period	Capture Interval	(cubic ft.)	(grams)	(cubic ft.)	(grams)	Volume	Mass
Q2	Interval 4857	6.10E+07	5.08E-02	6.06E+07	5.06E-02	99.3%	99.7%
	Interval 4838	3.45E+07	2.70E-02	2.71E+07	2.16E-02	78.6%	80.0%
		9.55E+07	7.77E-02	8.77E+07	7.22E-02	91.8%	92.9%
	-			-		-	
Q4	Interval 4857	6.70E+07	6.48E-02	6.63E+07	6.45E-02	99.0%	99.5%
	Interval 4838	4.63E+07	3.78E-02	4.39E+07	3.66E-02	94.7%	96.6%
		1.13E+08	1.03E-01	1.10E+08	1.01E-01	97.2%	98.5%

<sup>&</sup>lt;sup>a</sup> Volume and mass value assumes a uniform total porosity of 25% for the aquifer

Table 5-9
Vertical Capture Anaylsis for the Interim Measure Objective Area

		Plu	me <sup>a</sup>	Vertical	Capture <sup>a</sup>	Percent (	Captured
2016 Sample Period	Dissolved EDB Plume Segment North of Ridgecrest Drive SE	Volume (cubic ft.)	Mass (grams)	Volume (cubic ft.)	Mass (grams)	Volume	Mass
Q2	Above Interval 4838 mid-point	7.60E+07	6.42E-02	3.72E+07	3.11E-02	48.9%	48.5%
		7.60E+07	6.42E-02	3.27E+07	2.87E-02	43.0%	44.7%
	Below Interval 4838 mid-point	1.96E+07	1.35E-02	1.14E+07	7.65E-03	58.2%	56.4%
	Total	9.55E+07	7.77E-02	8.12E+07	6.75E-02	85.0%	86.8%
	-						
Q4	Above Interval 4838 mid-point	8.24E+07	7.91E-02	4.56E+07	4.37E-02	55.3%	55.2%
		8.24E+07	7.91E-02	1.66E+07	1.29E-02	20.1%	16.3%
	Below Interval 4838 mid-point	3.09E+07	2.36E-02	1.52E+07	1.26E-02	49.3%	53.4%
	Total	1.13E+08	1.03E-01	7.74E+07	6.92E-02	68.3%	67.4%

<sup>&</sup>lt;sup>a</sup> Plume and mass value assumes a uniform total porosity of 25% for the aquifer

Table I-6-1
Horizontal Capture Analysis for the Entire Plume Volume

2016	Dissolved EDB Plume		Plui	me <sup>a</sup>	Horizonta	I Capture <sup>a</sup>	Percent	Captured
Sample Period	Segment	Capture Interval	Volume (cubic ft.)	Mass (grams)	Volume (cubic ft.)	Mass (grams)	Volume	Mass
	Above Interval 4838 mid- point	Interval 4857	1.15E+08	6.01E-01	7.93E+07	1.77E-01	69.0%	29.4%
Q2	Below Interval 4838 mid- point	Interval 4838	6.43E+07	1.88E-01	2.71E+07	2.16E-02	42.2%	11.5%
	Total		1.79E+08	7.89E-01	1.06E+08	1.98E-01	59.4%	25.1%
	Above Interval 4838 mid-	_						
	point	Interval 4857	1.16E+08	8.42E-01	7.64E+07	9.16E-02	66.0%	10.9%
Q4	Below Interval 4838 mid- point	Interval 4838	6.87E+07	1.94E-01	5.77E+07	1.00E-01	83.9%	51.7%
	Total		1.85E+08	1.04E+00	1.34E+08	1.92E-01	72.7%	18.5%

<sup>&</sup>lt;sup>a</sup> Plume and mass value assumes a uniform total porosity of 25% for the aquifer

Table I-6-2
Vertical Capture Analysis for the Entire Plume Volume

2016	Dissolved EDB Plume		Plui	me <sup>a</sup>	Vertical	Capture <sup>a</sup>	Percent	Captured
Sample Period	Segment	Capture Interval	Volume (cubic ft.)	Mass (grams)	Volume (cubic ft.)	Mass (grams)	Volume	Mass
	Above Interval 4838 mid-	Interval 4857	1.43E+08	7.47E-01	6.07E+07	1.46E-01	42.6%	19.5%
	point	Interval 4838	1.43E+08	7.47E-01	5.44E+07	1.34E-01	38.2%	18.0%
Q2	Below Interval 4838 mid- point	Interval 4838	3.65E+07	4.27E-02	1.46E+07	1.03E-02	40.1%	24.0%
	Total		1.79E+08	7.90E-01	1.30E+08	2.91E-01	72.5%	36.8%
				1			1	
	Above Interval 4838 mid-	Interval 4857	1.43E+08	9.98E-01	6.08E+07	7.05E-02	42.5%	7.1%
	point	Interval 4838	1.43E+08	9.98E-01	4.31E+07	5.52E-01	30.1%	55.3%
Q4	Below Interval 4838 mid- point	Interval 4838	4.16E+07	4.01E-02	1.71E+07	1.46E-02	41.0%	36.4%
	Total		1.85E+08	1.04E+00	1.21E+08	6.37E-01	65.5%	61.4%

<sup>&</sup>lt;sup>a</sup> Plume and mass value assumes a uniform total porosity of 25% for the aquifer

Table 3-14
Comparison of Analytical Results between Bennett Pumps and Passive Samplers in Source Area Wells, Q4 2017

		V	Vell Location ID:	KAFB-	106005		KAFB-	106006		KAFB-	106008	
			Sample Date:	10/23/2017	10/18/2017	•	10/19	)/2017		10/20	/2017	1
			Field Sample ID:		GW005-174D	•	GW006-174	GW006-174D		GW008-174	GW008-174D	1
		Sample Co	llection Method:	Bennett Pump	DMS <sup>a</sup>		Bennett Pump	DMS <sup>a</sup>		Bennett Pump	DMS <sup>a</sup>	
			Project Screening			Relative Percent			Relative Percent			Relative Percent
Parameter	,	Analyte	Level <sup>d</sup>	Result <sup>b</sup>	Result <sup>b</sup>	Difference <sup>c</sup>	Result <sup>b</sup>	Result <sup>b</sup>	Difference <sup>c</sup>	Result <sup>b</sup>	Result <sup>b</sup>	Difference <sup>c</sup>
EDB	Method SW8011 (μg/L)	1,2-dibromoethane	0.05	0.32	0.29	10	0.014 J	0.21	175	4.1	2.5	48
VOCs	Method SW8260C (µg/L)	Benzene	5	230	300	26	37	27	31	2300	2300	0
		Ethylbenzene	700	29	35	19	3	3	0	120	190	45
		Toluene	750	4	3	29	7	0.6 J	168	1700	2000	16
		Xylenes, Total	620	63	75	17	2	< 1 U	NA	310	490	45
Total Metals	Method SW6010C (mg/L)	Calcium	NS	250	243	3	35.2	35.0	1	121	138	13
		Iron, dissolved	1.0	0.164 J	0.189 J	14	0.390 J	0.610	44	3.58	3.55 J	1
		Magnesium	NS	39.7	38.5	3	5.46	5.51	1	20.0	22.5	12
		Manganese, dissolved	0.2	0.136	0.0905	40	0.702	0.798	13	5.80	6.80	16
		Potassium	NS	5.42	5.22	4	2.08	2.01	3	3.31	3.54	7
		Sodium	NS	80.9	77.8	4	22.5	22.1	2	34.8	36.7	5
	Method SW6020A (mg/L)	Arsenic	0.01	< 0.0020 U	< 0.0020 U	NA	0.0010 J	< 0.0020 U	NA	0.00080 J	< 0.0020 U	NA
		Lead	0.015	0.00015 J	< 0.00025 U	NA	< 0.00025 U	< 0.00025 U	NA	< 0.00025 U	0.00030 J	NA
Anions	Method E300.0 (mg/L)	Bromide	NS	3.8	3.5	8	< 2.5 U	< 2.5 U	NA	1.9 J	2.0 J	5
		Chloride	250	211 J	217	3	9.7	9.3	4	16.0	16.8	5
		Sulfate	250	480	529	10	33.8	33.7	0	3.0 J	2.6 J	14
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 <sup>e</sup>	0.50 J	0.062 J	156	0.10 J	0.15 J	40	< 0.10 U	< 0.10 U	NA
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	167 J	134	22	107	106	1	344	371	8
		Alkalinity, carbonate (as CaCO3)	NS	< 5.0 U	< 5.0 U	NA	< 5.0 U	< 5.0 U	NA	< 5.0 U	< 5.0 U	NA
		Alkalinity, total (as CaCO3)	NS	167 J	134	22	107	106	1	344	371	8

Table 3-14
Comparison of Analytical Results between Bennett Pumps and Passive Samplers in Source Area Wells, Q4 2017

			-									
		V	/ell Location ID:	KAFB-	106014				KAFB-106059			
			Sample Date:	10/20/2017	10/19/2017				10/19/2017			
			ield Sample ID:	GW014-174	GW014-174D		GW059-174	GW059-174D		GW059-574	GW059-574D	
		Sample Col	lection Method:	Bennett Pump	DMS <sup>a</sup>		Bennett Pump	DMS <sup>a</sup>		Bennett Pump	DMS <sup>a</sup>	
		·	Project Screening	·		Relative Percent			Relative Percent			Relative Percent
Parameter	Analytical Method	Analyte	Level <sup>d</sup>	Result <sup>b</sup>	Result <sup>b</sup>	Difference <sup>c</sup>	Result <sup>b</sup>	Result <sup>b</sup>	Difference <sup>c</sup>	Result <sup>b</sup>	Result <sup>b</sup>	Difference <sup>c</sup>
EDB	Method SW8011 (μg/L)	1,2-dibromoethane	0.05	0.85	4.2	133	5.9	1.0	142	6.4	1.0	146
VOCs	Method SW8260C (μg/L)	Benzene	5	160	310	64	15000	3700	121	16000	3600	127
		Ethylbenzene	700	67	45	39	870	86	164	890	86	165
		Toluene	750	170	2	195	18000	6600	93	18000	6300	96
		Xylenes, Total	620	140	2	194	3000	1700	55	3000	1600	61
Total Metals	Method SW6010C (mg/L)	Calcium	NS	67.2	54.8	20	138	113	20	137	138	1
		Iron, dissolved	1.0	< 0.200 U	< 0.200 U	NA	7.38	5.98	21	7.28	5.98	20
		Magnesium	NS	10.2	8.83	14	24.7	20.3	20	24.5	24.7	1
		Manganese, dissolved	0.2	1.19	1.91	46	4.07	3.45	16	4.08	3.49	16
		Potassium	NS	2.79	2.32	18	3.99	3.47	14	3.94	3.99	1
		Sodium	NS	30.4	25.6	17	41.1	34.8	17	40.6	42.1	4
	Method SW6020A (mg/L)	Arsenic	0.01	< 0.0020 U	< 0.0020 U	NA	0.0024 J	0.0020 J	18	0.0023 J	0.0017 J	30
		Lead	0.015	< 0.00025 U	< 0.00025 U	NA	< 0.00025 U	< 0.00025 U	NA	< 0.00025 U	< 0.00025 U	NA
Anions	Method E300.0 (mg/L)	Bromide	NS	1.8 J	1.6 J	12	2.3 J	2.2 J	4	2.3 J	2.0 J	14
		Chloride	250	55.0	23.7	80	61.4	52.6	15	61.0	47.4	25
		Sulfate	250	21.0	17.1	20	< 5.0 U	< 5.0 U	NA	< 5.0 U	3.0 J	NA
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 <sup>e</sup>	< 0.10 U	0.79 J	NA	< 0.10 U	< 0.10 U	NA	< 0.10 U	< 0.10 U	NA
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	165	168	2	403	382	5	406	372	9
		Alkalinity, carbonate (as CaCO3)	NS	< 5.0 U	< 5.0 U	NA	< 5.0 U	< 5.0 U	NA	< 5.0 U	< 5.0 U	NA
		Alkalinity, total (as CaCO3)	NS	165	168	2	403	382	5	406	372	9

#### **Table 3-14**

## Comparison of Analytical Results between Bennett Pumps and Passive Samplers in Source Area Wells, Q4 2017

<sup>a</sup> Sample aliquots were collected using dual-membrane samplers.

<sup>b</sup> Nondetect results are reported less than the LOD.

<sup>c</sup> RPD is calculated as (A-B) / (A+B/2) X 100 where the Bennett pump result is A and the DMS result is B.

-- = sample not analyzed for this parameter

DMS = dual-membrane sampler

EDB = ethylene dibromide (1,2-dibromoethane)

LOD = limit of detection

LOQ = limit of quantitation

NA = RPD is not calculated if both results are nondetect or if one or both of the results are below the LOQ.

RPD = relative percent difference

VOC = volatile organic compound

Shaded = RPD value exceeds 35 percent field duplicate sample precision criteria (Kirtland AFB Quality Assurance Project Plan for Bulk Fuels Facility Expansion of the Dissolved-Phase Plume Groundwater Treatment System Design Solid Waste Management Unit ST-106/SS-111 (USAF 2016)

Qualifiers:

J = Qualifier denotes the analyte was positively identified, but the associated numerical value is estimated.

U = Qualifier denotes the analyte is not detected above the detection limit.

UJ = The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Table 3-15
Comparison of Analytical Results between YSI and Aqua-Troll Parameter Readings for Source Area Wells, Q4 2017

			Well Location ID:	KAFB-	106005		KAFB-	106006		KAFB-	106008		KAFB-	106014	
			Sample Date:	10/23/2017	10/18/2017		10/19/2017	10/19/2017		10/20/2017	10/18/2017		10/20/2017	10/19/2017	
		Sam	ple Depth (ft bgs):	4	33		4	86	]	4	90		49	90	
		Reference	Elevation Interval	48	57		48	357		48	357		48	357	
						Relative			Relative			Relative			Relative
		NMAC	Project			Percent			Percent			Percent			Percent
Parameter	Analyte	NMWQCC <sup>a</sup>	Screening Level <sup>b</sup>	YSI	Aqua-troll	Difference	YSI	Aqua-troll	Difference	YSI	Aqua-troll	Difference	YSI	Aqua-troll	Difference
Field Parameters	Turbidity	NS	NS	10.9	3.63	100.1	2.65	1.43	59.8	9.07	1.5	143.2	3.66	3.00	19.8
	Temperature (°C)	NS	NS	18.3	19.77	7.7	19.9	20.43	2.6	17.50	19.82	12.4	18.80	19.68	4.6
	DO (mg/L)	NS	NS	0.6	0.07	156.9	2.94	.64	128.5	0.28	0.07	120.0	0.32	0.20	46.2
	Spec Cond (µS/cm)	NS	NS	2463	1590.6	43.0	334.5	329.46	1.5	882.00	967.87	9.3	618.00	467.64	27.7
	pH (S.U.)	NS	NS	7.06	7.03	0.4	7.57	7.51	0.8	6.95	6.89	0.9	7.44	7.16	3.8
	ORP (mV)	NS	NS	-154.90	-270.9	54.5	-161.10	-169.50	5.1	-113.30	-152.10	29.2	-210.60	-194.30	8.1

Table 3-15
Comparison of Analytical Results between YSI and Aqua-Troll Parameter Readings for Source Area Wells, Q4 2017

			Well Location ID:	KAFB-	106059	
			Sample Date:	10/19/2017	10/19/2017	
		Sam	ple Depth (ft bgs):	48	38	
		Reference	<b>Elevation Interval</b>	48	57	
						Relative
		NMAC	Project			Percent
Parameter	Analyte	NMWQCC <sup>a</sup>	Screening Level <sup>b</sup>	YSI	Aqua-troll	Difference
Field Parameters	Turbidity	NS	NS	1.66	273.15	197.6
	Temperature (°C)	NS	NS	20.2	19.99	1.0
	DO (mg/L)	NS	NS	0.58	.77	28.1
	Spec Cond (µS/cm)	NS	NS	1016	896.17	12.5
	pH (S.U.)	NS	NS	7.24	6.78	6.6
	ORP (mV)	NS	NS	-134.8	-77.5	54.0

#### **Table 3-15**

## Comparison of Analytical Results between YSI and Aqua-Troll Parameter Readings for Source Area Wells, Q4 2017

<sup>a</sup> NMWQCC numeric standards per the NMAC Title 20.6.2.3101A, Standards for Groundwater of 10,000 mg/L Total Dissolved Solids Concentration or Less (NMAC 2004). For metals,

μg/L = microgram per liter

μS/cm = microsiemens per centimeter

°C = degree Celsius

EPA = U.S. Environmental Protection Agency

ID = identification

NMAC = New Mexico Administrative Code

NMWQCC = New Mexico Water Quality Control Commission

REG = normal field sample

Spec Cond = Specific Conductivity

S.U. = standard unit

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<sup>&</sup>lt;sup>b</sup> The project screening level was selected to satisfy the requirements of the Kirtland AFB Hazardous Waste Permit Number NM9570024423 as the lowest of (1) NMWQCC numeric standard or (2) EPA MCL. If no NMQWCC standard or MCL exists for any analyte, then the project screening level will be the EPA RSL.

Table 3-1
Groundwater Monitoring Program

	1st Quarter	2nd Quarter Semiannual	3rd Quarter	4th Quarter Annual	Former Well Designation and Monitoring Well
Location ID	(January-March)	(April-June)	(July-September)	(October-December)	Objective <sup>h,g</sup>
KAFB-106041 <sup>b,d</sup>	EDB, metals anions, alkalinity	Newly Adde EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA NA
	EDB, metals anions, alkalinity	BTEX, EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA NA
KAFB-106149-484 <sup>b,e</sup>	EDB, metals anions, alkalinity	BTEX, EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA NA
KAFB-106151-484 <sup>b,e</sup>	EDB, metals anions, alkalinity	BTEX, EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA NA
KAFB-106152-484 <sup>b,e</sup>	EDB, metals anions, alkalinity	BTEX, EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA NA
KAFB-106153-484 <sup>b,e</sup>	EDB, metals anions, alkalinity	•	EDB, metals, anions, alkalinity		NA NA
KAFB-106235-463 <sup>b,f</sup>		EDB, metals anions, alkalinity	· · · · · · · · · · · · · · · · · · ·	EDB, VOCs, metals, anions, alkalinity	
KAFB-106235-492 <sup>b,f</sup>	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA NA
KAFB-106235-521 <sup>b,f</sup>	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA
KAFB-106236-461 <sup>b,f</sup>	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106236-490 <sup>b,f</sup>	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA
KAFB-106236-519 <sup>b,f</sup>	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106240-449 <sup>b,g</sup>	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106241-428 <sup>b,g</sup>	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106242-418 <sup>b,g</sup>	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106243-425 <sup>b,g</sup>	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106244-445 <sup>b,g</sup>	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106245-460 <sup>b,g</sup>	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
10A1 D-1002-40-400	,	Groundwater Mon		, ,	
KAFB-106001	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106002	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106003	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106004	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106005 <sup>b</sup>	BTEX, EDB, metals, anions, alkalinity	BTEX, EDB, metals, anions, alkalinity	BTEX, EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	Source Area
KAFB-106006	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106007	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106008	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106009 <sup>b</sup>	BTEX, EDB, metals, anions, alkalinity	BTEX, EDB, metals, anions, alkalinity	BTEX, EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	Source Area
KAFB-106010	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106011	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106012R	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, metals, anions, alkalinity, FP	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106013	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106014	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106015 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106016	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106017	None	BTEX, Naphthalene, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Signal
KAFB-106018	None	BTEX, Naphthalene, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Signal
KAFB-106019 KAFB-106020	None None	EDB, metals, anions, alkalinity, FP EDB, metals, anions, alkalinity, FP	None None	EDB, VOCs, metals, anions, alkalinity, FP EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring Groundwater Monitoring
	None	EDB, metals, anions, alkalinity  EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106021 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106022 <sup>b</sup>		EDB, metals, anions, alkalinity  EDB, metals, anions, alkalinity		EDB, VOCs, metals, anions, alkalinity  EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring  Groundwater Monitoring
KAFB-106023 <sup>b</sup>	None	•	None	-	o de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
KAFB-106024	None None	EDB, metals, anions, alkalinity, FP	None None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106025 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106026 <sup>c</sup>					Groundwater Monitoring
KAFB-106027	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106028	None	BTEX, EDB, metals, anions, alkalinity, FP	None EDB	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106029 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity		EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106030 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal

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Table 3-1
Groundwater Monitoring Program

Location ID	1st Quarter (January-March)	2nd Quarter Semiannual (April-June)	3rd Quarter (July-September)	4th Quarter Annual (October-December)	Former Well Designation and Monitoring Well Objective <sup>h,g</sup>
Location is	(January March)	Groundwater Monitori	· · · · · · · · · · · · · · · · · · ·	(October December)	Objective
KAFB-106031 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106032 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106033 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106033 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106035 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106035	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106030	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106037	None	BTEX, Naphthalene, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Signal
KAFB-106039	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106040	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106042 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106043 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106044	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106045	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106046	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106047	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106048	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106049 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106050 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106051 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106052 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106053 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106054 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106055 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106055	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106058 <sup>b</sup> KAFB-106059	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity  EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106060	None	BTEX, EDB, metals, anions, alkalinity, FP  BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106061	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106062	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106063	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106064	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106065	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106066	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106067	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106068	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106069	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106070 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106071 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106072 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106073	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106074	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106075	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106076	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106077	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106078	None None	BTEX, EDB, metals, anions, alkalinity, FP BTEX, EDB, metals, anions, alkalinity	None None	EDB, VOCs, metals, anions, alkalinity, FP EDB, VOCs, metals, anions, alkalinity	Source Area Source Area
KAFB-106079 <sup>b</sup> KAFB-106080	None	BTEX, EDB, metals, anions, alkalinity  BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity EDB, VOCs, metals, anions, alkalinity, FP	Source Area

Table 3-1
Groundwater Monitoring Program

Location ID	1st Quarter	2nd Quarter Semiannual	3rd Quarter	4th Quarter Annual	Former Well Designation and Monitoring Well Objective <sup>h,g</sup>
Location ID	(January-March)	(April-June)	(July-September)	(October-December)	Objective *
KAFB-106081	None	Groundwater Mon BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106082	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106083	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106084	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106085 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106086 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106087 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106088 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106089 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106090 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106091 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106092 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106093 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106094	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106095 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106096	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106097	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106098	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106099	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106100	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106101	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106102	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106103 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106104 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106105 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106106 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106107 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106201 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106202 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106203 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106204 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106205 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106206 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106207 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106208 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106209 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106212 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106213 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106214 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106215 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106216 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106217 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106217	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106219 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, Metals, anions, alkalinity  EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106220 <sup>b</sup>		EDB, metals, anions, alkalimity  EDB, metals, anions, alkalimity		EDB, VOCs, metals, anions, alkalinity  EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring  Groundwater Monitoring
KAFB-106221 <sup>b</sup>	None		None		
KAFB-106222 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal

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Table 3-1
Groundwater Monitoring Program

		2nd Quarter		4th Quarter	Former Well Designation	
	1st Quarter	Semiannual	3rd Quarter	Annual	and Monitoring Well	
Location ID	(January-March)	(April-June)	(July-September)	(October-December)	Objective <sup>h,g</sup>	
		Groundwater Mon	toring Wells <sup>a</sup>	•		
KAFB-106223 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal	
KAFB-106224 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal	
KAFB-106225 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring	
KAFB-106226 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring	
KAFB-106227 <sup>b</sup>	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring	
KAFB-106230 <sup>c</sup>					Groundwater Monitoring	
KAFB-106231 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal	
KAFB-106232 <sup>b</sup>	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal	
KAFB-3411	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring	

# Table 3-1 Groundwater Monitoring Program

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Newly Added Wells—Newly added wells can include both existing wells that are added to the GWM network as well as newly installed wells. Newly added GWM wells require a minimum of four consecutive quarters of baseline full-suite analytical sampling before receiving a designation that determines the long-term sampling regime. These wells have been added to define the plume boundaries and provide additional water table monitoring due to the rising groundwater alevation.

Source Area Wells—Primarily located in the BFF south of Randolph Road SE and proximal to the spill site on-Base. Sampled during Q2 and Q4. These wells monitor the higher concentrations of dissolved-phase plumes on-Base. Downgradient Proximal Wells—Located north of Ridgecrest Drive SE surrounding the historical EDB plume to the west, north, and east into the distal portion of the GWM network. Analytical data for these wells have been historically below the maximum contaminant level (MCL) for EDB. Sampled every quarter. These wells assist in plume boundary definition.

Veterans Affairs (VA) Proximal Wells—Three sets of nested wells located between the historical EDB plume south of Ridgecrest Drive SE and the Raymond G. Murphy VA Medical Center as a means to detect any potential contaminant migration towards the VA medical campus. Sampled every quarter. These wells provide additional wellhead protection monitoring for the VA supply well.

Signal Wells—Three wells located along the south side of Ridgecrest Drive SE to monitor benzene, toluene, ethylbenzene, and total xylenes (BTEX) and provide early indication if the benzene plume is migrating from the source area into the interim measure target area capture zone created by the groundwater extraction wells. Sampled during Q2 and Q4.

Groundwater Monitoring Wells—Primarily location north of Ridgecrest Drive SE within the historical footprint of the EDB plume. Analytical data from these wells serve to define the volume and mass of the EDB plume throughout the GWM network. Sampled in Q2 and Q4.

BTEX = benzene, toluene, ethylbenzene, and total xylenes

EDB = ethylene dibromide

FP = field parameter

ID = identification

NA = not applicable

VOC = volatile organic compound

USACE, 2018. Quarterly Monitoring Report April-June 2018, Bulk Fuels Facility, SWMU ST-106/SS-111.

Prepared by EA Engineering, Science, and Technology, Inc., PBC for the USACE-Albuquerque District under USACE Contract No. W912WR-12-D-0006. September.

<sup>&</sup>lt;sup>a</sup> The groundwater monitoring network consists of 149 wells that are currently sampled under Solid Waste Management Unit ST106/SS-111. Select wells are identified for additional or more frequent monitoring of risk-driving constituents. Metals analysis consists of select total metals (arsenic, calcium, lead, potassium, magnesium, and sodium) and select dissolved metals (iron and manganese). Anions analysis consists of bromide, chloride, nitrate/nitrite nitrogen, and sulfate. Field parameters include pH, specific conductivity, dissolved oxygen, oxidation reduction potential, temperature, and turbidity.

<sup>&</sup>lt;sup>b</sup> Well sampled with passive sampling methodology; field parameter measurements are not representative and therefore are not collected.

<sup>&</sup>lt;sup>c</sup>Well no longer sampled due to safety concerns.

<sup>&</sup>lt;sup>d</sup> Newly added to the groundwater monitoring network in fourth quarter 2017.

<sup>&</sup>lt;sup>e</sup> Newly added to the groundwater monitoring network in first quarter 2018.

f Newly installed groundwater monitoring well that was completed in fourth quarter 2016.

<sup>&</sup>lt;sup>9</sup> Newly installed groundwater monitoring well that was completed in third quarter 2018.

h In previous reports, groundwater monitoring wells were designated based on their location related to groundwater gradient and the EDB plume or on their location, i.e. "downgradient", "source area", etc. However, due to the changing regional groundwater gradient (see Quarter 2 2018 Quarterly Monitoring Report [USACE 2018]), these designations are not always appropriate. To simplify and more accurately represent dynamic hydrologic conditions, all groundwater monitorings wells will be designated simply as "groundwater monitoring well" after completing a baseline sampling of four quarters. Prior to the baseline sampling, the wells will be designated as "newly added".

<sup>&</sup>lt;sup>g</sup> Monitoring Well Objective:

Table I-6-1
Estimated Water Level in Ridgecrest Well Field Wells, Q4 2018

Well	Q4 2017 Water- Level (ft above NAVD88)	Q4 2018 Water- Level (ft above NAVD88)	Distance to Trumbull (miles)	Distance to Del Sol Divider (miles)	Data Type
Montessa Site-B	4877.2	4878.7	na	na	Measured
Jerry Cline-C	4877.3	4877.3	na	na	Measured
Del Sol Divider-3	4880.8	4883.3	na	na	Measured
Trumbull-1A	4870.5	4872.2	na	na	Measured
Ridgecrest 3	4867.3	4868.7	0.70	2.94	Estimated
Ridgecrest 4	4865.4	4866.7	0.73	2.22	Estimated
Ridgecrest 5	4869.2	4870.8	0.27	2.40	Estimated

Notes:

ft = foot/feet

NAVD88 = North American Vertical Datum of 1988

Table I-6-2
Summary of KAFB-106228 Aquifer Test Analysis

Well ID	Radial Distance to the Pumping Well (r, ft)	Reference Elevation Interval (ft amsl)	Maximum Displacement During Pumping (ft)	Drawdown or Recovery	Aquifer Transmissivity (T, ft²/day)	Hydraulic Conductivity (Kh, ft/day)	Specific Yield (Sy, dimensionless)	Storativity (S, dimensionless)	Specific Storage (Ss, per ft)	Vertical to Horizontal Anisotropy Ratio (VANI, dimensionless)
KAFB-106035	58	4857	0.56	Drawdown (Pumping)	52,000	170	0.29	0.63	2.1E-03	0.003
				Recovery (Agarwal plot)	53,000	180	0.11	0.75	2.5E-03	0.001
KAFB-106213	275	4857	0.27	Drawdown (Pumping)	59,000	200	0.04	0.034	1.1E-04	0.02
KAFB-10622	321	4857	0.21	Drawdown (Pumping)	79,000	260	0.16	0.15	5.0E-04	0.002
				Recovery (Agarwal plot)	94,000	310	0.25	0.094	3.1E-04	0.01
KAFB-106036	40	4838	0.66	Drawdown (Pumping)	44,000	150	0.25	0.20	6.7E-04	0.05
				Recovery (Agarwal plot)	45,000	150	0.16	0.26	8.7E-04	0.03
KAFB-106214	296	4838	0.24	Recovery (Agarwal plot)	87,000	290	0.013	0.046	1.5E-04	0.002
KAFB-106212	24	4814	0.97	Drawdown (Pumping)	17,000	60	0.05	0.0009	3.0E-06	0.01
			Recovery (Agarwal plot)	15,000	50	0.11	0.0022	7.3E-06	0.04	
KAFB-106037	32	4838	1.15	Drawdown (Pumping)	31,000	100	0.10	0.013	4.3E-05	0.03
				Recovery (Agarwal plot)	30,000	100	0.10	0.014	4.7E-05	0.03
KAFB-106215	330	4814	0.20	Recovery (Agarwal plot)	52,000	170	0.0046	0.0058	1.9E-05	0.02

Table modified from Aquifer Test Report for Groundwater Extraction Well KAFB-106228, Bulk Fuels Facility, Solid Waste Management Unit ST-106/SS-111, Kirtland Air Force Base, New Mexico (USACE, 2016). amsl = above mean sea level

ft = foot/feet

ID = identification

USACE = U.S. Army Corps of Engineers

USACE. 2016. Aquifer Test Report for Groundwater Extraction Well KAFB-106228, Bulk Fuels Facility, Solid Waste Management Unit ST-106/SS-111, Kirtland Air Force Base, New Mexico. Prepared by CB&I Federal Services for the USACE-Albuquerque District under USACE Contract No. W912DY-10-D-0014. July.

Table I-6-3
Model Simulation Comparison Q4 2017 and Q4 2018

Horizontal Hydraulic	2017 Q4 Simulation	Vertical Anisotropy				
Conductivity (ft/day)	Results	0.001	0.005	0.01	0.03	0.05
90	RMSD	NIA	NA	NA	0.442	NA
80	NRMSD	NA			13.0%	
00	RMSD	NIA	NIA		0.373	NIA
90	NRMSD	NA	NA	NA	10.9%	NA
	RMSD	0.450	0.375	0.351	0.335	0.334
	NRMSD	13.2%	11.0%	10.3%	9.8%	9.8%
100	KAFB-106037	-0.67	-0.50	-0.40	-0.25	-0.19
	KAFB-106092	-0.58	-0.40	-0.29	-0.12	-0.05
	KAFB-106203	-0.36	-0.36	-0.36	-0.35	-0.35
	RMSD	0.409	0.344	0.326	0.318	0.319
	NRMSD	12.0%	10.1%	9.6%	9.3%	9.4%
110	KAFB-106037	-0.41	-0.27	-0.18	-0.04	0.01
	KAFB-106092	-0.29	-0.14	-0.05	0.11	0.17
	KAFB-106203	-0.19	-0.19	-0.19	-0.18	-0.18
	RMSD	0.388	0.332	0.320	0.317	0.320
	NRMSD	11.4%	9.7%	9.4%	9.3%	9.4%
120	KAFB-106037	-0.20	-0.07	0.00	0.13	0.18
	KAFB-106092	-0.06	0.07	0.16	0.29	0.36
	KAFB-106203	-0.05	-0.05	-0.05	-0.04	-0.04
	RMSD	0.382	0.333	0.325	0.326	0.329
	NRMSD	11.2%	9.8%	9.5%	9.6%	9.6%
130	KAFB-106037	-0.02	0.09	0.16	0.27	0.31
	KAFB-106092	0.14	0.25	0.33	0.45	0.51
	KAFB-106203	0.07	0.07	0.07	0.07	0.07
	RMSD	0.386	0.342	0.336	0.340	0.343
	NRMSD	11.3%	10.0%	9.9%	10.0%	10.1%
140	KAFB-106037	0.13	0.23	0.29	0.39	0.43
	KAFB-106092	0.31	0.41	0.47	0.59	0.64
	KAFB-106203	0.17	0.17	0.17	0.17	0.18
	RMSD	0.396	0.355	0.351	0.356	0.359
	NRMSD	11.6%	10.4%	10.3%	10.4%	10.5%
150	KAFB-106037	0.27	0.35	0.41	0.50	0.54
	KAFB-106092	0.46	0.54	0.60	0.71	0.76
	KAFB-106203	0.26	0.26	0.26	0.26	0.26
175	RMSD	NA	NA	NA	0.394	NA
	NRMSD	IVA	1974	14/4	11.6%	14/4
200	RMSD	NIA	NIA	NIA	0.432	NA
200	NRMSD	NA	NA	NA	12.7%	INA
250	RMSD	NIA	NIA	NIA	0.491	NΛ
200	NRMSD	- NA	NA	NA	14.4%	NA NA
300	RMSD	NA	NA	NA	0.534	NA
300	NRMSD	INA	INA	INA	15.7%	INA

Horizontal Hydraulic	2018 Q4 Simulation	Vertical Anisotropy				
Conductivity (ft/day)	Results	0.001	0.005	0.01	0.03	0.05
80	RMSD	NA	NA	NA	0.545	NA
80	NRMSD	INA			11.9%	INA
90	RMSD	NA	NA	NA	0.513	NA
90	NRMSD	INA	INA	INA	11.2%	INA
	RMSD	0.545	0.499	0.484	0.466	0.461
	NRMSD	11.9%	10.9%	10.5%	10.2%	10.0%
100	KAFB-106037	-0.39	-0.35	-0.30	-0.21	-0.17
	KAFB-106092	NA	NA	NA	NA	NA
	KAFB-106203	-0.07	-0.06	-0.06	-0.06	-0.06
	RMSD	0.518	0.466	0.451	0.436	0.433
	NRMSD	11.3%	10.1%	9.8%	9.5%	9.4%
110	KAFB-106037	-0.19	-0.17	-0.12	-0.05	-0.01
	KAFB-106092	NA	NA	NA	NA	NA
	KAFB-106203	0.10	0.10	0.10	0.11	0.11
	RMSD	0.503	0.445	0.431	0.419	0.416
	NRMSD	10.9%	9.7%	9.4%	9.1%	9.1%
120	KAFB-106037	-0.03	-0.01	0.02	0.09	0.13
	KAFB-106092	NA	NA	NA	NA	NA
	KAFB-106203	0.24	0.24	0.24	0.24	0.24
	RMSD	0.496	0.434	0.421	0.410	0.407
	NRMSD	10.8%	9.5%	9.2%	8.9%	8.9%
130	KAFB-106037	0.11	0.12	0.15	0.21	0.24
	KAFB-106092	NA	NA	NA	NA	NA
	KAFB-106203	0.36	0.36	0.36	0.36	0.36
	RMSD	0.496	0.429	0.416	0.406	0.404
	NRMSD	10.8%	9.3%	9.1%	8.8%	8.8%
140	KAFB-106037	0.23	0.23	0.25	0.31	0.34
	KAFB-106092	NA	NA	NA	NA	NA
	KAFB-106203	0.46	0.46	0.46	0.46	0.46
	RMSD	0.499	0.429	0.416	0.407	0.405
	NRMSD	10.9%	9.3%	9.0%	8.9%	8.8%
150	KAFB-106037	0.34	0.32	0.35	0.40	0.42
	KAFB-106092	NA	NA	NA	NA	NA
	KAFB-106203	0.55	0.55	0.55	0.55	0.55
175	RMSD	NIA	NIA	NIA	0.411	NIA
175	NRMSD	NA	NA	NA	8.9%	NA
200	RMSD	NIA	NIA	NIA	0.431	NIA
200	NRMSD	NA	NA	NA	9.4%	NA
250	RMSD	NIA	NIA	NIA	0.468	NIA
250	NRMSD	NA NA	NA	NA	10.2%	NA
200	RMSD	NIA	NI A	NI A	0.497	NIA
300	NRMSD	NA	NA	NA	10.8%	NA

Calibration Criteria: NRMSD less than 10%; absolute simulated head error at extraction well drawdown monitoring wells less than 0.34 feet (2017 Q4) and 0.46 feet (2018 Q4).

#### Bold text indicates value meets calibration criteria

Light shading indicates simulation meets all calibration criteria

Dark shading identifies best-fit simulation (used to estimate capture)