APPENDIX D	)
Quality Control (Data Validation Reports) and Corrections	>

Project Name: Actus Hickam Project Number: 100-5F0-T26434-02

Laboratory Used: Torrent Labs
Lab Project Number: 1008130

Sample Matrix: Son Checked By/On: Mark Dollar

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
४०४।	401934	22	4	SOME OUTS	(D) OK	MS/MSD outside Kecone limit	OK
2m3081A	401 946	22_	Y	OK	OK	MS/MSD propriet	OK
						125	
				87			
Date	2		i i	Issues and Acti	ons Taken		
& 26 10	required	greater tra		spikes the Len	not reportable	brecoverable. of	No casseche
	* Batch 4			For heppaller	. 1	April Physiin - 15 Geo	reldrin, and
	Achin ve	asired.		( MSD are mu			No consensu
10/20/10 3:VEMG -/Environ Rev. 11-08-07	Sample in Sample & 13.	Forms/Forms/Lab Va Where is - Lates	M-42 hildstion Tideo fre Co were	f-12 and c then, as revised	it currently	says reiex ranges an	as opposed retra Tech New on 817 COK. 7/ (CO)

Project Name: SAME AS Laboratory Used: Sample Matrix  Checked By/Or			
	N/A	YES	NO
Is a Quality Assurance Project Plan (QAPP), Work Plan or a Sampling and Analysis (SAP) available? Was the frequency stated in the QAPP, Work Plan or SAP for field duplicates, rinsate blanks and trip blanks met?		爻	
Chain-of-Custody and Request for Analysis (CC/RA) Records:  Is the CC/RA present and the original copy?  Is the CC/RA complete and signed off as appropriate?  Was the temperature received recorded by the laboratory and was it 4°C, ±2°? if not what  Were any problems noted by the laboratory on the CC/RA?  What?		<u>X</u> X —	
CC/RA - Laboratory Report Agreement:  Were all the samples on the CC/RA analyzed as requested and instructions followed?  Is the Field Sample Identification and the Laboratory Number relationship consistent between the CC/RA and the laboratory report?  Do the Sampled and Received dates on the CC/RA match those on the laboratory report for each sample?		X X X	
Was the report signed and each report page stamped with the TETRA TECH "Date Received" stamp?			X
Was a project narrative available and read? Were any problems noted in the narrative? Describe Some MC MSD Subside Lab count limit.		炎	
Were method numbers, matrices, units and reporting limits indicated and appropriate? Was all other report heading information accurate?		$\frac{X}{X}$	
Were all field duplicates within relative percent difference (RPD) control limits?	<u>X</u>	#	
Were all results for field, rinsate and trip blanks ND?	<u>X</u>		

Project Name: Actus Hickam Project Number: 100-550-T26424-02 Laboratory Used: Tovent Labs

Lab Project Number: 100 8 139

Sample Matrix: Soil
Checked By/On: Mack Ouffy 1

Analysis	Laboratory QC Batch Number	TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
W8081A	401940	4	4	OK	OK		OK
							W.
						-	
		ara a la					
Date	O Section 1	=		Issues and Act	ions Taken		
Date	\$ N.	o Issues	Of	4. hong			
	No	MSMSD	soike	De l'ente		env.	AUG BER
			Late the		tean of the second		

Project Name: SYME	Laboratory Lab Project	VUsed: \text{Vice Number: \text{Vice No. } \t	er Side	Sample Matrix: Checked By/On:			
*					N/A	YES	NO
Is a Quality Assurance Project Plan (C Was the frequency stated in the QAPF						X	
Chain-of-Custody and Request for Analis the CC/RA present and the original is the CC/RA complete and signal was the temperature received reward any problems noted by the What?	iginal copy? ed off as appropriate? ecorded by the laborate	ory and was it 4°C, ±2	eo? if not what			X X X	
CC/RA - Laboratory Report Agreement Were all the samples on the CC/ Is the Field Sample Identification the CC/RA and the laborator Do the Sampled and Received d	/RA analyzed as reque n and the Laboratory N y report?	umber relationship co	nsistent between			X X	
Was the report signed and each report	rt page stamped with th	ne TETRA TECH "Dat	te Received" st	amp?			X
Was a project narrative available and Were any problems noted in the narra		No				×	$\overline{\mathbf{x}}$
Were method numbers, matrices, unit Was all other report heading information	•	ndicated and appropri	iate?			X	
Were all field duplicates within relative	e percent difference (R	(PD) control limits?			X.		
Were all results for field, rinsate and to	rip blanks ND?			_	<u>X</u>		

Project Name: Hickam RAP Soil Sumpling Project Number: T76434.02

Laboratory Used: Torrest Lab Project Number: 1008153 Rev1

Sample Matrix: Soll Checked By/On: M. 13 Seet 17010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
AISOSUA	401940	2-2	<b>V</b>	limbs reversed	/	MISSING	✓ m
J======	40 1956 3697	16 -10	<b>/</b>	all deleted	<b>/</b>	Some autorde	/
	401958	4-5	✓	all dilubol	missing	ymissing	midding
100							
			<u> </u>				
10000							
Date				issues and Act	ions Taken	-	
13 Sept 2010				-1 reported as 1	3:30 in report	nut 14:30 on CC	Lab 10114
135 2010	Missian NR an	ALCS for ba	tch 46195	8	error on Col	C is mentione	l in the
111		crative- o					

Project Name: Hickory RAP Sall Samples Laboratory Used: Torrent Sample Matrix: 5 ht Lab Project Number: 1008153 Rev 1 Project Number: 776414, 02 Checked By/On: JK 15 Seek 2010 Is a Quality Assurance Project Plan (QAPP), Work Plan or a Sampling and Analysis (SAP) available? Was the frequency stated in the QAPP, Work Plan or SAP for field duplicates, rinsate blanks and trip blanks met? Chain-of-Custody and Request for Analysis (CC/RA) Records: Is the CC/RA present and the original copy? Is the CC/RA complete and signed off as appropriate? Was the temperature received recorded by the laboratory and was it 4°C, ±2°? if not what Were any problems noted by the laboratory on the CC/RA? What? CC/RA - Laboratory Report Agreement: Were all the samples on the CC/RA analyzed as requested and instructions followed? Is the Field Sample Identification and the Laboratory Number relationship consistent between the CC/RA and the laboratory report? Do the Sampled and Received dates on the CC/RA match those on the laboratory report for each sample? Was the report signed and each report page stamped with the TETRA TECH "Date Received..." stamp? Was a project narrative available and read? Were any problems noted in the narrative? Describe Were method numbers, matrices, units and reporting limits indicated and appropriate? Was all other report heading information accurate? Were all field duplicates within relative percent difference (RPD) control limits? Were all results for field, rinsate and trip blanks ND?

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Project Name: Actus Hickam
Project Number: 160- SF0-T26434-02

Laboratory Used: Townest Labs
Lab Project Number: 1008/164

Checked By/On: MARK DIFF

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SW8081A	40 2000	38	¥	OK	OK	SOME MSMED Butsher & recover	OK
						,	
					_ = = 1	= = = = = = = = = = = = = = = = = = = =	
Date				Issues and Act	ions Taken		
4.31.10	7 0	15/MSD	62000 60 60+ L		En Diels re ouside RPD lunit	1. recoverse	y For lab

Project Name:	A C Laboratory Use		$\sim 1$	Sample Matrix:		
Project Number:	/ナン Lab Project Num	nber: <u>() (4, e)/</u>	Side	Checked By/On: _		
				N/	A YES	NO
Is a Quality Assurance Project Plan (Q					X	
Was the frequency stated in the QAPF	, Work Plan or SAP for fie	eld duplicates, rinsate	blanks and tri	p blanks met?	_ <u>×</u>	
Chain-of-Custody and Request for Analis the CC/RA present and the ori	ginal copy?		,		X	
Is the CC/RA complete and signed		and was it 4°C ±2°2 i	f not what		×	
Was the temperature received re Were any problems noted by the What?			i not what	<u>.</u>		
CC/RA - Laboratory Report Agreemen	t:				· -	
Were all the samples on the CC/	RA analyzed as requested	d and instructions follo	owed?		$\overline{x}$	
Is the Field Sample Identification the CC/RA and the laborator		er relauonship consis	stent between		$\times$	
Do the Sampled and Received d		those on the laborate	ory report for e	ach sample?	X	×
Was the report signed and each report	t page stamped with the T	ETRA TECH "Date R	Received" sta	mp?		X
Was a project narrative available and		- <del>1</del>	side		X	
Were any problems noted in the narra	tive? Describe	ee other	3100	•	_ <u>X</u>	
Were method numbers, matrices, units Was all other report heading information		ated and appropriate	?		<u>X</u>	
Were all field duplicates within relative	percent difference (RPD)	control limits?		<u> </u>	<u> </u>	
Were all results for field, rinsate and tr	ip blanks ND?			X		

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SW808117	402009	32	4	OK	OK		OK
SW8081 A	402013	32	4	OK	OK		OK
	722		' '		1000		
		101			Dell Burge		
			-				
			ļ. — J		lana Talan		L
Date	12 1	C 1 CD		Issues and Act	ions laken	1 /	1 1
7-1-2010	10 M	SMSQ.	1 68	hot.	Jan	due 12	> Migh
	level	arelo	Kin	and	Alden	in The	Spiked
	SUA	ple.			***	3.W - W - W - W - W - W - W - W - W - W -	
-	14.0	100 00000	2 (4 ) 2		1.11.0	, E	AKZ-RA-371-06
	Sample -	AULIA C	KH-LUT	-06 B (130) N	of matching Coc	Lipick 15 55	1 2 - KA - 40; -1
	SAMPLE	- OIYH (EAR	2-RA-20	27 - 12 B 1135	Not matches	Coc while	15 EVAR 2-RA-37

Project Name: SAME AS OTHER Laboratory Used: Lab Project Number: Lab Project Number:	Sample Matrix:Checked By/On:
Lab Floject Number.	
	N/A YES NO
Is a Quality Assurance Project Plan (QAPP), Work Plan or a Sampling and Ar Was the frequency stated in the QAPP, Work Plan or SAP for field duplicates	nalysis (SAP) available?
Chain-of-Custody and Request for Analysis (CC/RA) Records: Is the CC/RA present and the original copy? Is the CC/RA complete and signed off as appropriate? Was the temperature received recorded by the laboratory and was it 4°C Were any problems noted by the laboratory on the CC/RA?  What?  Discreparcy Behres Supple TD	Ϋ́
CC/RA - Laboratory Report Agreement:  Were all the samples on the CC/RA analyzed as requested and instruction in the Field Sample Identification and the Laboratory Number relationshing the CC/RA and the laboratory report?  Do the Sampled and Received dates on the CC/RA match those on the Was the report signed and each report page stamped with the TETRA TECH	ip consistent between laboratory report for each sample?
Was a project narrative available and read? Were any problems noted in the narrative? Describe	other Side
Were method numbers, matrices, units and reporting limits indicated and app Was all other report heading information accurate?	propriate?
Were all field duplicates within relative percent difference (RPD) control limits	×
Were all results for field, rinsate and trip blanks ND?	<u>X</u>

Project Name: Hick am RAP Sol Sampling Project Number: 125434.02 Laboratory Used: Terrant
Lab Project Number: 1005177

Sample Matrix: Soil
Checked By/On: UK & Soil, 2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SU8081A	402021	8	<b>✓</b>	Deluted Out			1
	402029	12	/	(OOK/20.Tolerat	Missing		Missing
	402027 053	6 +2 monums	1	ALL DIFIEL OF	/		/
	402015	2	<b>/</b>	OK	Missing	*****	Missing
			•				
Date				Issues and Actio	ons Taken		
3 Sept 2010	Sample times .	for Lab ID 17	A and 18	A M:10 d 10	4:15		
Scot 2010	Sample 10 For	- Lab 10 20A	. —	FAR-RA	-20k-	bhade OI	120 12
3 Sept 2010	MISSING M						
Carl and	NO METHEN	\ <					
Sopt 2010	MB and LCS for	r batch 4020	27 found	in Report w/ Lab F	Project Number 100	8192	
1-1-10	Lab discu	Isls Sanu	de tim	e emos and	saple 1D	in rovised	report > OK
:\M Drive\EE gro	up SOPs\Forms\Lab. Vall	Idation Tt.doc		in Report w/ lab F e emos and	(on san	upe recient c	-hecklist) Tetra Tec

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Project Name: <u>Hickom RAP Sail Sampling</u> Project Number: <u>T26934.02</u>	Laboratory Used: Terrent Sample Lab Project Number: 1002177 Checke	e Matrix: <u>S</u> d By/On: <u>3</u>	od K 85	ept, 204
	Plan	N/A	YES	NO
ls a Quality Assurance Project Plan (QAPP), Was the frequency stated in the QAPP, Work	Work Plan or a <u>Sampling and Analysis (SAP)</u> available? Plan or SAP for field duplicates, rinsate blanks and trip blanks	met?	<u> </u>	
Chain-of-Custody and Request for Analysis (Complete and the original complete and signed off a Was the temperature received recorded Were any problems noted by the laborations.)	opy? s appropriate? by the laboratory and was it 4°C, ±2°? if not what		<u>√</u>	<u>~</u> <u>~</u>
Is the Field Sample Identification and the the CC/RA and the laboratory report Do the Sampled and Received dates on	alyzed as requested and instructions followed? e Laboratory Number relationship consistent between ? the CC/RA match those on the laboratory report for each samp  Square Property  temporal with the TETRA TECH "Date Received" stamp?	ole?	<u>/</u> <u></u>	
Was a project narrative available and read? Were any problems noted in the narrative? D	escribe			<u></u>
Were method numbers, matrices, units and re Was all other report heading information accu			<u> </u>	
Were all field duplicates within relative percen	t difference (RPD) control limits?			
Were all results for field, rinsate and trip blank	ss ND?	_		

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Project Name: Hoham RAP Sal Samples
Project Number: T26434.02

Laboratory Used: Torrent
Lab Project Number: 1008972

Sample Matrix: Soil
Checked By/On: JK 95eet 2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike , Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
Alaosus	402015	7	/	Solution 2 not record	- Missing		Missons
21100000	402041 0461	21+1	<b>✓</b>	8 aduled 13 not recverable	<b>/</b>		/
	402050 CATU	4	/	All Not Rescarrable	/		<b>✓</b>
	402027 ours				1		/
Date		l		Issues and Action	ons Taken		
9 Sept 2010	MB and LCS.	for batch 402	201 inclus	led in this report			
9 Sopt 2010	Musun MB an			*			
9 Sopt 2010	No MS/MSDE						
9 Sept, 2010				on CC.	0.7	- 11	Clas
10/2/K	,	date in		- V	n Sample		8/23, 15 ic though
H:\M Urive\EE gi Rev. 11-03-07	roup SOPs\Forms\Lab Va	rcvision - alidation Tt.doc	or san	upu date em	or, report	landarica / E	Tetra ·

#### **TETRA TECH**

#### LABORATORY REPORT EVALUATION CHECKLIST

Project Name: Hickam RAP Sul Sempling	Laboratory Used: Terrent	Sample Matrix			
Project Number: 126434.02	Lab Project Number: 1008192	Checked By/Or	1:11	6 4 Sep	F. 2010
			N/A	YES	NO
Is a Quality Assurance Project Plan (QAPP), Was the frequency stated in the QAPP, Work	Vork Plan or a Sampling and Analysis (SAP) Plan or SAP for field duplicates, rinsate blank	available? ks and trip blanks met?	<u> </u>	<u>~</u>	
Chain-of-Custody and Request for Analysis (C Is the CC/RA present and the original cop Is the CC/RA complete and signed off as Was the temperature received recorded Were any problems noted by the laborate What?	py? appropriate? by the laboratory and was it 4°C, ±2°? if not v	what		<del>\</del>	<u>√</u>
Is the Field Sample Identification and the the CC/RA and the laboratory report?	lyzed as requested and instructions followed' Laboratory Number relationship consistent to the CC/RA match those on the laboratory rep	between		<u> </u>	_/
Was the report signed and each report page s	tamped with the TETRA TECH "Date Receiv	ed* stamp?			
Was a project narrative available and read? Were any problems noted in the narrative? De	escribe			<u> </u>	<u> </u>
Were method numbers, matrices, units and re Was all other report heading information accur				<u>\</u>	
Were all field duplicates within relative percent	t difference (RPD) control limits?		<u> </u>		
Were all results for field, rinsate and trip blank	s ND?				

Project Name: Huttam RAP Sod Sampling
Project Number: 726434.02

Laboratory Used: Tarrent
Lab Project Number: V008202

Sample Matrix: Soll Checked By/On: 3 4 9 5 2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike , Duplicate (MS/MSD)	Laboratory Control Spike (LCS)			
A18081A	402050	16+5	/	All Not Recognitie	<b>✓</b>		<b>✓</b>			
	402061 0071	18 + 11	<b>V</b>	17-Wet Recorded	<b>✓</b>		/			
Date		1		Issues and Action	ons Taken					
7 Sept 2010	En Sample Re	A STATE OF THE PARTY OF THE PAR	is incom	plete						
7 Sept 2010		Missing MS/MSD								
1 Sept 2010	Lab 10 missing letter "A" in report that was writing a completed survey to report > validated /OK									

Project Name: Hickam RAP Soil Sampling	Laboratory Used:	Torrect		Sample Mat	rix: S	er)	
Project Number: 126434.02	Lab Project Number	er: 1008202	- 	Checked By/C			2010
6	,						7
					N/A	YES	NO
Is a Quality Assurance Project Plan (QAPI Was the frequency stated in the QAPP, W	P), Work Plan or a Sampl ork Plan or SAP for field	ling and Analysis duplicates, rinsa	(SAP) available te blanks and tr	e? ip blanks met?	عد	<u></u>	
Chain-of-Custody and Request for Analysi Is the CC/RA present and the origina Is the CC/RA complete and signed o Was the temperature received record Were any problems noted by the lab What?	al copy? iff as appropriate? ded by the laboratory and	I was it 4°C, ±2°?	' if not what	·		<u>/</u> <u>/</u>	<u> </u>
CC/RA - Laboratory Report Agreement: Were all the samples on the CC/RA Is the Field Sample Identification and the CC/RA and the laboratory rep Do the Sampled and Received dates	d the Laboratory Number port?	relationship cons	sistent between	ach sample?		✓ ✓	<u>/</u>
Was the report signed and each report pa	ge stamped with the TET	RA TECH "Date	Received" sta	imp?		1	
Was a project narrative available and read Were any problems noted in the narrative						V	<b>√</b>
Were method numbers, matrices, units an Was all other report heading information a		d and appropriat	e?			1	
Were all field duplicates within relative per	cent difference (RPD) co	ntrol limits?			1		
Mara all requite for field, since to and this b	lonko NIDO	4.0			1	4 v . 1	*
Were all results for field, rinsate and trip b	Idiks NU!	24 24 24			V	177	

Project Name: Hickory PAP Sul Samples Project Number: T26434.02

Laboratory Used: Torrest
Lab Project Number: 1008216

Sample Matrix: Soll
Checked By/On: V. 9 Sopt. 2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SW8081A	402080	10 +6	<b>/</b>	All not recoverable	Musing		Missing
¥	402087	5+4	<b>V</b>	3 not recoverable 2 Winted	Missing	_	Musmy
***	402082 0467	8 +3	<b>/</b>	All not recoverable	PB 0487 PB 0490 /x2		PRA947
	402088	12	<b>✓</b>	#13 not recognition 2 delited	Missing		Missing
							121
Date				Issues and Action	one Teken		
Sept 2010	Lat Romet lead	San ala IDa m	*EAD-				
Sept 2010	Missing MR	11CS CA PL	S LAK	280, 402087, an	2 as they are	isted in CC	
Sept 2010	Mossing MS/MS	D FOR DATE	cries 40%	180, 40W87, an	d <b>3</b> 02038		
11/1/10	Lab revis		e ID	to match	CC > val	idated lok	
′ ′				F.7 304	, and the same of		

Project Name: Hickam RAP Soil Sampling Laboratory Used: Torrent Sample Matrix: Soil Lab Project Number: 1008216 Project Number: 726434.02 Checked By/On: JK 9 Sept 2010 N/A YES NO Is a Quality Assurance Project Plan (QAPP), Work Plan or a Sampling and Analysis (SAP) available? Was the frequency stated in the QAPP, Work Plan or SAP for field duplicates, rinsate blanks and trip blanks met? Chain-of-Custody and Request for Analysis (CC/RA) Records: Is the CC/RA present and the original copy? Is the CC/RA complete and signed off as appropriate? Was the temperature received recorded by the laboratory and was it 4°C, ±2°? if not what Were any problems noted by the laboratory on the CC/RA? What? CC/RA - Laboratory Report Agreement: Were all the samples on the CC/RA analyzed as requested and instructions followed? Is the Field Sample Identification and the Laboratory Number relationship consistent between the CC/RA and the laboratory report? Do the Sampled and Received dates on the CC/RA match those on the laboratory report for each sample? Was the report signed and each report page stamped with the TETRA TECH "Date Received..." stamp? Was a project narrative available and read? Were any problems noted in the narrative? Describe Were method numbers, matrices, units and reporting limits indicated and appropriate? Was all other report heading information accurate? Were all field duplicates within relative percent difference (RPD) control limits? Were all results for field, rinsate and trip blanks ND?

Project Name: Heckey RAP Soil Sampling	Laboratory Used: Torrent	Sample Matrix:		
Project Number: <u>১১৯৭১৭-০১</u>	Lab Project Number: Looszz6	Checked By/On: _3	K 10 South	2010
			YES	NO
Is a Quality Assurance Project Plan (QAPP) Was the frequency stated in the QAPP, Wo	, Work Plan or a Sampling and Analysis (SAP) avark Plan or SAP for field duplicates, rinsate blanks a	ailable? and trip blanks met?		
Chain-of-Custody and Request for Analysis Is the CC/RA present and the original Is the CC/RA complete and signed off	copy?	,		<u>√</u>
Was the temperature received record Were any problems noted by the labo	ed by the laboratory and was it 4°C, ±2°? if not wha	at	<u>~</u>	
Is the Field Sample Identification and the CC/RA and the laboratory repo	nalyzed as requested and instructions followed? the Laboratory Number relationship consistent bet ort? on the CC/RA match those on the laboratory repor	•		
Was the report signed and each report pag	e stamped with the TETRA TECH Date Received	" stamp?	<u> </u>	***************************************
Was a project narrative available and read? Were any problems noted in the narrative?		·		
Were method numbers, matrices, units and Was all other report heading information ac	I reporting limits indicated and appropriate? ccurate?		<u> </u>	
Were all field duplicates within relative perc	cent difference (RPD) control limits?		<u> </u>	A. 3 .
Were all results for field, rinsate and trip bla	anks ND?		<u> </u>	<del></del>

Project Name: Hickory RAP Sal Screptures Laboratory Used: Torresol Sample Matrix: Sal Checked By/On: 1/4 16 Sept 2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)		
SW8081A	402108	5	$\checkmark$	Add not recoverable	Missing		Mesery		
	402109	33 +11	<b>✓</b>	All not recoverable	Missing		Mesons		
	407103 0995				V×Z		V=2		
							·		
			<u> </u>						
Date				Issues and Acti	ons Taken				
10 Sept 2010_	Missing MB a	and LCS for be	tch 40210	18 and 902109					
10 500 2010	MB and ICZ For	r Prep Buleh O	1916 and 0°	197 for buildh 402	103 included				
							i ex		

Project Name: Hickam PAP Sall Sampling Project Number: 776434.02

Laboratory Used: \_\_\_\_\_\_\_\_

Sample Matrix: \_\_\_\_\_\_\_

Lab Project Number: 1008234

Checked By/On: JK 14 Sept 280

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SW808IA	407179 1001	38 + 2		All defeded - 36 net	<b>✓</b>		/
	402088				/		1
	402141 1023				<b>V</b>		/
					35		
Date				Issues and Action	ons Taken		
0105 tgsc 21	Lab 10 27A 15	listed as collec	ted at 14:	15 while CC sta	tes 14:25		
14 Sept, 2010	Missing MS/M	SO					
14 Spt. 2010	MBs and LCS:	for 402008 and	1402141	added			
14 Sept 2010	CC Incomple	te! (muss	ina rec	iaint san	ature)		N R I I I I I
10/28/10	1ab 12 10	008134-001	esternin	ed to be		1-010, had b	een diangel
177	in datab	E 8 40 1 10 10 10 10 10 10 10 10 10 10 10 10		to be and	dressed in	report	
	homental Mgt. Group\Fie			os well o	uple times is signed C	in revised	report, valid

Project Name: Hickam RAP Sail Sampling	Laboratory Used:	Sample Mati	rix:	Ed .	
Project Number: 176434.07	Lab Project Number: <u>\∞ ≉234</u>	Checked By/C			+.2010
- 1 40 - 100 - 100					
			N/A	YES	NO
	P), Work Plan or a Sampling and Analysis (SAP) ork Plan or SAP for field duplicates, rinsate blant		1	1	
Chain-of-Custody and Request for Analysi Is the CC/RA present and the origina Is the CC/RA complete and signed o Was the temperature received record Were any problems noted by the lab What?	al copy?  off as appropriate?  ded by the laboratory and was it 4°C, ±2°? if not voratory on the CC/RA?	, what		<u>_</u>	<u>/</u>
Is the Field Sample Identification and the CC/RA and the laboratory rep	analyzed as requested and instructions followed d the Laboratory Number relationship consistent to port? s on the CC/RA match those on the laboratory rep	between		<u>/</u>	
Was the report signed and each report pa	ge stamped with the TETRA TECH "Date Receiv	red" stamp?—			
Was a project narrative available and read Were any problems noted in the narrative	d? ? Describe		.·	/	
Were method numbers, matrices, units an Was all other report heading information a	nd reporting limits indicated and appropriate?			<u>/</u>	
Were all field duplicates within relative per	rcent difference (RPD) control limits?		<b>V</b>	153 B	d Mary
Were all results for field, rinsate and trip b	lanks ND?		$\checkmark$		

Project Name: Hickory NAP Soil Sampling	Laboratory Used: Torred	•	Sample Matrix: <u>Sω\</u> hecked By/On: <u>\\k_\Կ Sლხეშია</u>			
Project Number: 726434, 62.	Lab Project Number: 1009003	Спескеа ву/С	າກ: <u>/) ແ</u>	14 Sept	- Zoro	
		•	N/A	YES	NO	
Is a Quality Assurance Project Plan (QAPP), Was the frequency stated in the QAPP, World	Work Plan or a Sampling and Analysis (SAP) available k Plan or SAP for field duplicates, rinsate blanks and trip	? blanks met?				
Chain-of-Custody and Request for Analysis ( Is the CC/RA present and the original of the CC/RA complete and signed off a Was the temperature received recorder were any problems noted by the laboration what?	copy? as appropriate? d by the laboratory and was it 4°C, ±2°? if not what	, 		<del></del>	<u>/</u>	
Is the Field Sample Identification and the the CC/RA and the laboratory report Do the Sampled and Received dates o	alyzed as requested and instructions followed? he Laboratory Number relationship consistent between rt? in the CC/RA match those on the laboratory report for ea stamped with the TETRA TECH "Date Received" sta			<u>/</u> _/		
Was a project narrative available and read? Were any problems noted in the narrative?	Describe		·	<u> </u>		
Were method numbers, matrices, units and Was all other report heading information according	reporting limits indicated and appropriate? curate?			$\preceq$		
Were all field duplicates within relative perce	ent difference (RPD) control limits?					
Were all results for field, rinsate and trip blan	nks ND?					

Project Name: Hickon RAP Sal Sempling	Laboratory Used:	Sample Matrix: _S_{
Project Number: 126434.02	Lab Project Number: 1009.003	Checked By/On: <u>ी८ ।५ ऽक्ट्र रुग्</u> य

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)		
AIBOBWE	402153 1024	20	<b>√</b>	All dehalad - 17 not reconcible	<b>/</b>		✓.		
	402141 1023	8 ~1	<b>✓</b>	All delated - Grateralls	<u> </u>		✓		
,,,,,									
<u> </u>							· .		
							÷		
Date				issues and Acti	ons Taken				
19 Sopt 2010	No MS/MSD	No MS/MSD:							
				,					
				124			or exposed in the		
						***************************************			

Project Name: Weben RM Soil Sampling	Laboratory Used: Toward	Sample Matri	x:Sــز	<u> </u>	
Project Number: TZ(434.42	Lab Project Number: 1069023	Checked By/O	n: <u> </u>	15 Sept	2015
			N/A	YES	NO
Is a Quality Assurance Project Plan (QAPP), V Was the frequency stated in the QAPP, Work	Vork Plan or a Sampling and Analysis (SAF Plan or SAP for field duplicates, rinsate bla	P) available? anks and trip blanks met?			<del></del>
Chain-of-Custody and Request for Analysis (C Is the CC/RA present and the original co Is the CC/RA complete and signed off as Was the temperature received recorded Were any problems noted by the laborate What?	py? s appropriate? by the laboratory and was it 4°C, ±2°? if no ory on the CC/RA?	ot what		<u></u>	<u></u>
Is the Field Sample Identification and the	the CC/RA match those on the laboratory	nt between report for each sample?			
Was a project narrative available and read? Were any problems noted in the narrative? D			,	<u>~</u>	
Were method numbers, matrices, units and re Was all other report heading information accu				<u>J</u>	
Were all field duplicates within relative percen	t difference (RPD) control limits?				
Were all results for field, rinsate and trip blank	ks ND?		<u> </u>		

Project Name: Hickory FAP Sal Sample Matrix: Sal Laboratory Used: Tennal Sample Matrix: Sal Checked By/On: JK 1854-240

	Samples in	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)				
40215 [	20 +4	1	1	4 🗸		- V				
५०८।८८	35 20 + 2	<b>/</b>	All Almbd - Increase	<b>\</b>						
			-		/.	:				
	,									
			Issues and Action	ons Taken						
Missing MS/MSDs										
		<u> </u>				The second second				
			-							
	QC Batch Number 40ZIS7 40ZISB	QC Batch Number Batch  402157 1031 20 +4  402158 1038 20 +2  402158 MS/MSDs	QC Batch Number Batch Met  402157 1031 20 +4  402158 1038 20 ÷ 2   402158 MS/MSDs	QC Batch Number Batch Met Surrogates  402157 1031 20 +4	QC Batch Number Batch Met Surrogates (MB)  402157 1031 20 +4	QC Batch Number Batch Wet Surrogates Method Blank (MS/MSD)  402157 1031 20 +4				

Project Name: Hickom RAP Soil Sampling	Laboratory Used: _		Sample Mate			
Project Number: TZ6434.02	Lab Project Number:	100%030	Checked By/0	)U: <u>7<i>\</i>~</u>	16 7 day	-7 5010
				N/A	YES	МО
Is a Quality Assurance Project Plan (QAPP), V Was the frequency stated in the QAPP, Work	Vork Plan or a Samplir Plan or SAP for field d	ng and Analysis uplicates, rinsat	(SAP) available? e blanks and trip blanks met?		<u></u>	***************************************
Chain-of-Custody and Request for Analysis (Coal) is the CC/RA present and the original coal is the CC/RA complete and signed off as Was the temperature received recorded Were any problems noted by the laborate What?	py? s appropriate? by the laboratory and v	was it 4°C, ±2°?	if not what		<u> </u>	<u> </u>
CC/RA - Laboratory Report Agreement:  Were all the samples on the CC/RA and Is the Field Sample Identification and the the CC/RA and the laboratory report Do the Sampled and Received dates on	e Laboratory Number ro? ? the CC/RA match thos	elationship cons se on the labora	tory report for each sample?		<u>~</u>	
Was the report signed and each report page s	stamped with the 1 E i i	A-IEGH-Date	Keceiveastamp:/			
Was a project narrative available and read? Were any problems noted in the narrative? D	escribe			<del>_</del> -		
Were method numbers, matrices, units and re Was all other report heading information accu		l and appropriat	e?		<u>/</u>	
Were all field duplicates within relative percen	t difference (RPD) cor	trol limits?		<u></u>		
Were all results for field, rinsate and trip blank	s ND?	The Both State of the State of		<u></u>	- <del> </del>	

Telra Tech

Project Name: Hickan PAP Set Surplus
Project Number: 1264344.62

Laboratory Used: Torrent
Lab Project Number: 1009030

Sample Matrix: Soll
Checked By/On: 1/4 1/6 Sopt 2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)				
A180812	402172 1036	20 +1	<b>/</b>	All diluled - 6 W/R	/		✓				
	402184 1038	20 + 6	<u> </u>	All delated -8 increased	<b>✓</b>						
Date				Issues and Acti	ons Taken						
16 Spt 2010	No MS/MSDs										
		-	WW.			•,					
				**************************************	Anna de la companya d						
	A State of the sta	m.		A PART A SAN A							

Project Name: Hickom RAP Sal Samples	Laboratory Used:		Sample Matrix: <u>Տա</u> Checked By/On: <u> </u>		
Project Number: T26434-02	Lab Project Number: <u>૧૦૦૧૦</u> ૫૩	Checked by/C	ли. <u>Ј</u>	. ११ २००१	- <u>2000</u>
			N/A	YES	NO
Is a Quality Assurance Project Plan (QAP Was the frequency stated in the QAPP, V	PP), Work Plan or a Sampling and Analysis (SAP) availal Vork Plan or SAP for field duplicates, rinsate blanks and	ole? trip blanks met?	<u> </u>		
Chain-of-Custody and Request for Analysis the CC/RA present and the originals the CC/RA complete and signed Was the temperature received recowere any problems noted by the law	al copy? off as appropriate? rded by the laboratory and was it 4°C, ±2°? if not what _	, 		<u> </u>	<u> </u>
Is the Field Sample Identification ar	A analyzed as requested and instructions followed?  Index the Laboratory Number relationship consistent between the consistency report for the consistenc			<u>\</u>	
Was the report signed a <del>nd each report p</del>	age stamped with the TETRA TECH "Date Received"	stamp?		<u> </u>	
Was a project narrative available and real Were any problems noted in the narrative	ad? e? Describe				
Were method numbers, matrices, units a Was all other report heading information	and reporting limits indicated and appropriate? accurate?			<u> </u>	
Were all field duplicates within relative p	ercent difference (RPD) control limits?			• •	
Were all results for field, rinsate and trip	blanks ND?				<u> </u>

Project Name: Hickam RAP Sail Sampling Project Number: 126434.02 Laboratory Used: Torrent
Lab Project Number: 1009043

Sample Matrix: Scyl Checked By/On: 4K 17 Scyl 2019

Analysis	Labora QC Ba Numl	itch	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)		
A1808WZ	407187	Iorld	20 +11	✓	All deliched - U/R			<u> </u>		
	40247	jous	10		All diluted - 8 D/R					
	407200	1662	2	<b>/</b>	Diluted my incomose			<b>/</b>		
		····								
	1									
								1		
Date			1	,	Issues and Acti	ons Taken				
17 Sapt 2010	Missing MS/MSDs									
					3					
				•						

Project Name: Name: Laboratory Used: Completed: Sample Matrix: Sall Checked By/On: Name: Laboratory Used: Checked By/On: Name: Name:

	1060 1062	20		i l	(MB)	(MS/MSD)	Control Spike (LCS)
	1647	Market and a second a second and a second and a second and a second and a second an		Middled - 5 DYR.	/		<b>/</b>
1	V+000	8	<b>V</b>	All Islands - 15 troopings	<b>/</b>	SAR SEndon	/
Date	<u> </u>			Issues and Action	ons Taken		
) Surt 2010 T	Emperature m	issing on CC					
•		SD for batch	402222				
1/1/10	Lab con	1	emp o	n CoC in 1	revised rep	ort > valida	rted / OK
1119		· / /		D 15 12		21	9
·				2.00			

Project Name: Helson PAR Sail Semples Sample Matrix: \_\_\_Sal\_\_\_ Laboratory Used: Torred Project Number: 126434.62 Lab Project Number: 1604055 Checked By/On: 14 200 N/A YES NO Is a Quality Assurance Project Plan (QAPP), Work Plan or a Sampling and Analysis (SAP) available? Was the frequency stated in the QAPP. Work Plan or SAP for field duplicates, rinsate blanks and trip blanks met? Chain-of-Custody and Request for Analysis (CC/RA) Records: Is the CC/RA present and the original copy? Is the CC/RA complete and signed off as appropriate? Was the temperature received recorded by the laboratory and was it 4°C, ±2°? if not what ... Were any problems noted by the laboratory on the CC/RA? What? CC/RA - Laboratory Report Agreement: Were all the samples on the CC/RA analyzed as requested and instructions followed? is the Field Sample Identification and the Laboratory Number relationship consistent between the CC/RA and the laboratory report? Do the Sampled and Received dates on the CC/RA match those on the laboratory report for each sample? Was the report signed and each report page stamped with the TETRA TECH "Date Received..." stamp? Was a project narrative available and read? Were any problems noted in the narrative? Describe Were method numbers, matrices, units and reporting limits indicated and appropriate? Was all other report heading information accurate? Were all field duplicates within relative percent difference (RPD) control limits? Were all results for field, rinsate and trip blanks ND?

Project Name: Hickory RAP Sall Samples	Laboratory Used:	Sample Matrix Checked By/Or			
Project Number: न्युद्धयुद्धय-ल्ट	Lab Froject Number. (093084	Onecked by/Or	1	-A rota C	ບູ
			N/A	YES	NO
Is a Quality Assurance Project Plan (QAPP Was the frequency stated in the QAPP, Wo	), Work Plan or a Sampling and Analysis (SA ork Plan or SAP for field duplicates, rinsate bla	P) available? anks and trip blanks met?		$\frac{\checkmark}{}$	
Chain-of-Custody and Request for Analysis Is the CC/RA present and the original Is the CC/RA complete and signed of Was the temperature received record Were any problems noted by the laborate.	l copy? f as appropriate? led by the laboratory and was it 4°C, ±2°? if no	ot what		<u></u>	<u> </u>
Is the Field Sample Identification and the CC/RA and the laboratory rep	analyzed as requested and instructions follow the Laboratory Number relationship consiste ort? on the CC/RA match those on the laboratory	nt between		<u>\</u>	·
Was the report signed and each report pag	ge stamped with the TETRA TECH "Date Rec	eived" stamp?			
Was a project narrative available and read Were any problems noted in the narrative?	? P Describe				
Were method numbers, matrices, units and Was all other report heading information a	d reporting limits indicated and appropriate? ccurate?			<u> </u>	·
Were all field duplicates within relative per	cent difference (RPD) control limits?		<u> </u>		***
Were all results for field, rinsate and trip bl	anks ND?		<u></u>	<del>.</del>	·

Project Name: Hickory PAP Sal Samples Project Number: TZC434-0Z

Laboratory Used: \_ Tarest Lab Project Number: 1009064

Sample Matrix: Sal Checked By/On: Mr. on Say 2010

Amalysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
Analysis	1668		1	Middel - 2 M/R	<b>✓</b>		
W808 IA	46222C	50	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	MIGHELL - E D/R	/		
	902240	4		100 Toronopes			
			<u> </u>			·	
 Date			,	Issues and Act	ions Taken		
	1 110 4100	C 1107740					
21 Sapt 2010	No MS/MSD	for HOULTED					
			<u></u>				
				1.3-31			
				·			

Project Name: Hickory RAP Sal Sampling	Laboratory Used:	Sample Matrix:			
Project Number: Tzsq3q.62.	Lab Project Number: tee-673	Checked By/On:	JK 2	z S <sub>ept</sub>	2010
		4	V/A	YES	NO
Is a Quality Assurance Project Plan (QAPP Was the frequency stated in the QAPP, Wo	), Work Plan or a Sampling and Analysis (SA ork Plan or SAP for field duplicates, rinsate bla	.P) available? anks and trip blanks met?	<u> </u>	<u> </u>	
Chain-of-Custody and Request for Analysis Is the CC/RA present and the original Is the CC/RA complete and signed of Was the temperature received record Were any problems noted by the laborate.	copy? f as appropriate? led by the laboratory and was it 4°C, ±2°? if no	ot what	- - - -	<u> </u>	<u></u>
Is the Field Sample Identification and the CC/RA and the laboratory rep	analyzed as requested and instructions follow the Laboratory Number relationship consiste ort? on the CC/RA match those on the laboratory	nt between	-	<u>/</u>	·.
Was the report signed and each report pag	ge stamped with the TETRA TECH "Date Rec	eived" stamp?			
Was a project narrative available and read Were any problems noted in the narrative?	? Describe			<u> </u>	<u></u>
Were method numbers, matrices, units and Was all other report heading information a	d reporting limits indicated and appropriate? ccurate?			<u> </u>	
Were all field duplicates within relative per	cent difference (RPD) control limits?	-	<u> </u>		
Were all results for field, rinsate and trip bl	anks ND?	-	<u> </u>		

Project Name: Hickan IAR Sail Samples Laboratory Used: Torrest Sample Matrix: Soil
Project Number: TZGUGU-02 Lab Project Number: 1009073 Checked By/On: 1K 22 Sail 2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SW8081A	402290 1071	13	<b>V</b>	All delated - 1 Incorposed	<u> </u>		
	402249 1075	10	V	All whole - BN/R			
	402250	16	<u> </u>	All diled = 11 w/R			V
	402260	1	V	All deliated not recovered	✓		
		1					-
Date			,	Issues and Action	ons Taken		
22 Stot 2010	Missing MS/M	SDs					
,	9 / · ·			÷. + 4			
,							

Project Name: Hischem RAP Soil Sampling	Laboratory Used:	Sample Matrix:		
Project Number: 126404.02	Lab Project Number: <u>16ক্বৰণ্ট3</u> C	Checked By/On: <u>১</u>	९ १३ ड <sub>ल्</sub>	- E010
		N/A	YES	NO
Is a Quality Assurance Project Plan (QAP Was the frequency stated in the QAPP, V	P), Work Plan or a Sampling and Analysis (SAP) available? Vork Plan or SAP for field duplicates, rinsate blanks and trip	blanks met?	<u>~</u>	
Chain-of-Custody and Request for Analysis the CC/RA present and the origin is the CC/RA complete and signed Was the temperature received recowere any problems noted by the lai	al copy? off as appropriate? rded by the laboratory and was it 4°C, ±2°? if not what	<b></b> *	<u> </u>	<u> </u>
Is the Field Sample Identification ar the CC/RA and the laboratory re	analyzed as requested and instructions followed?  Index the Laboratory Number relationship consistent between eport?  It is not the CC/RA match those on the laboratory report for each	ch sample?		
Was the report signed and each report p	age stamped with the TETRA TECH "Date Received" stam	<del>ıp?</del>		
Was a project narrative available and rea Were any problems noted in the narrative		·	_ <u> </u>	
Were method numbers, matrices, units a Was all other report heading information	nd reporting limits indicated and appropriate? accurate?		<u> </u>	
Were all field duplicates within relative po	ercent difference (RPD) control limits?			<u> </u>
Were all results for field, rinsate and trip	blanks ND?	$\underline{\checkmark}$		_

Project Name: Hickory RAF Sal Sarphis Project Number: Tzengu. 02

Laboratory Used: Torred
Lab Project Number: 1609.083

Sample Matrix: Scal Checked By/On: UK 25 Sout Zolo

Analysis	Labor QC B Num	atch	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank	Matrix Spike/Matrix Spike 'Duplicate	Laboratory Control Spike
SW8081A	402266	1678	191		Dilided : 12 NYR.	(MB)	(MS/MSD)	(LCS)
	402250	1076	1 4	V				V
	402267	1079	16		Diluted and in created		***************************************	
					Dhisted a more and			
							·	
								-
		·						
Date								
35at 2010	Missing	#1C /			Issues and Action	ns Taken		
spt corr	TAMSSING	1013/1	N2D					
	•	······································						
				· · · · · · · · · · · · · · · · · · ·	and the transfer			
		·····						ing the second s
1						<u> </u>	<del></del>	

Project Name: Hickey RAP Soil Scarping		ample Matrix:		******
Project Number: 126434.62	Lab Project Number: 1009095 Ch	ecked By/On: <u>১//</u>	24 Sept	. 5010
		N/A	YES	NO
Is a Quality Assurance Project Plan (QAF Was the frequency stated in the QAPP, V	PP), Work Plan or a Sampling and Analysis (SAP) available? Vork Plan or SAP for field duplicates, rinsate blanks and trip bl	anks met?	<u> </u>	
Chain-of-Custody and Request for Analysis the CC/RA present and the origin is the CC/RA complete and signed Was the temperature received recovere any problems noted by the law what?	nal copy? off as appropriate? orded by the laboratory and was it 4°C, ±2°? if not what		<u> </u>	
Is the Field Sample Identification ar the CC/RA and the laboratory re Do the Sampled and Received date	A analyzed as requested and instructions followed?  Index the Laboratory Number relationship consistent between eport?  Index on the CC/RA match those on the laboratory report for each age stamped with the TETRA TECH "Date Received" stamp		<u> </u>	-
Was a project narrative available and rea	ad? e? Describe	·		
Were method numbers, matrices, units a Was all other report heading information	and reporting limits indicated and appropriate? accurate?		<u> </u>	-
Were all field duplicates within relative p	ercent difference (RPD) control limits?		· · · · · · · · · · · · · · · · · · ·	1
Were all results for field, rinsate and trip	blanks ND?			

Project Name: Hickor RAP Sal Samplers
Project Number: 125434.02

Lab Project Number: 1000055

Sample Matrix: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Checked By/On: JK & Sept-2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank	Matrix Spike/Matrix Spike 'Duplicate	Laboratory Control Spike
SW8081A	405560 redu	19+2	<b>V</b>		(MB)	(MS/MSD)	(LCS)
	402289 1019	7		All Not Recoverable		in the second se	
				i in creased	V		
		:					
Date				Jenus and A at			
14 Sept-2010	Missing MS/MS	D for balch 4	(b-12-7)	Issues and Actio	ns Taken		······································
		12 tor baten 4	067.60				

Project Name: Hickam RAP Sal Sampling	Laboratory Used: Terrent	Sample Matrix: <u> </u>		
Project Number: <u>T26434.62</u>	Lab Project Number:\@@ilo8	Checked By/On: <u>५८</u>	6 Oct :	<u> 2610 </u>
		N/A	YES	NO
Is a Quality Assurance Project Plan (QAP) Was the frequency stated in the QAPP, W	P), Work Plan or a Sampling and Analysis (SAF /ork Plan or SAP for field duplicates, rinsate bla	<sup>9</sup> ) available? ınks and trip blanks met? <u>√</u>	<u>/</u>	
Chain-of-Custody and Request for Analysis Is the CC/RA present and the original Is the CC/RA complete and signed of Was the temperature received recomber any problems noted by the lab What?	al copy? off as appropriate? ded by the laboratory and was it 4°C, ±2°? if no oratory on the CC/RA?	t what	<u>/</u>	<u></u>
Is the Field Sample Identification and the CC/RA and the laboratory re	analyzed as requested and instructions followed the Laboratory Number relationship consistent port? s on the CC/RA match those on the laboratory re	t between	<u>/</u>	
Was the report signed and each report pa	ge stamped with the TETRA TECH "Date Rece	ived" stamp?		
Was a project narrative available and read Were any problems noted in the narrative	d? ? Describe			
Were method numbers, matrices, units an Was all other report heading information a	nd reporting limits indicated and appropriate?		<u> </u>	
Were all field duplicates within relative per	cent difference (RPD) control limits?			
Were all results for field, rinsate and trip bl	lanks ND?			

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Rev. 11-08-07

Project Name: Hallow RAP Sal Serving
Laboratory Used: Torrit
Project Number: Transfer2
Lab Project Number: 100 100 Checked By/Onorg out 2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SW5081A	46230Z "100	20	/	19 - None Tecorotte 1 - Incurrend	✓		
	462307 M3	2	<u> </u>	Not Recorde	/		<u> </u>
		<u></u>					
Date				Issues and Action	ons Taken		
6 Cet 2016	Missing MS/M	SDs		<u></u>			. 44
		· · ·					
							· · · · · · · · · · · · · · · · · · ·

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Project Number: 126934 .62 Lab Project Number: 1004116 Checked By/On: 3K 60cd	<i>2</i> 616
N/A YES	NO
Is a Quality Assurance Project Plan (QAPP), Work Plan or a Sampling and Analysis (SAP) available?  Was the frequency stated in the QAPP, Work Plan or SAP for field duplicates, rinsate blanks and trip blanks met?	
Chain-of-Custody and Request for Analysis (CC/RA) Records: Is the CC/RA present and the original copy? Is the CC/RA complete and signed off as appropriate? Was the temperature received recorded by the laboratory and was it 4°C, ±2°? if not what Were any problems noted by the laboratory on the CC/RA? What?	<u> </u>
CC/RA - Laboratory Report Agreement:  Were all the samples on the CC/RA analyzed as requested and instructions followed?  Is the Field Sample Identification and the Laboratory Number relationship consistent between the CC/RA and the laboratory report?  Do the Sampled and Received dates on the CC/RA match those on the laboratory report for each sample?	
Was the report signed and each report page stamped with the TETRA TECH "Date Received" stamp?	
Was a project narrative available and read?  Were any problems noted in the narrative? Describe	<u> </u>
Were method numbers, matrices, units and reporting limits indicated and appropriate?  Was all other report heading information accurate?	
Were all field duplicates within relative percent difference (RPD) control limits?	
Were all results for field, rinsate and trip blanks ND?	

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Tetra Tech

Project Name: Hichan RAP Sci Scraphis
Project Number: TEEUSY . CZ

Laboratory Used: <u>(cerent</u> Lab Project Number: <u>1009116</u>

Sample Matrix: Sail
Checked By/On: 3k 6 6c + 2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
Swedeia	402367	18	/	10 - Net Recommelle 8- Increased	/	/	<b></b>
	402318 1120	20	$\checkmark$	ci-fit texticable 16 - Increased	<b>/</b>	-	/
<u> </u>					·		
·							
Date		<u></u>	<u></u>	Issues and Act	ions Taken		
6 Oct 2010	Missing MS/M	SD for batch 4	02318	- A-			
					-		
	<u> </u>						

Project Name: Hybran DB Sal Sampling	Laboratory Used:	Sample Matrix: _ <u>\$</u>		
Project Number: T 264RU, 02	Lab Project Number: 1818613	Checked By/On: <u>\\V</u>	<u>M Oct</u>	2010
		N/A	YES	NO
	P), Work Plan or a Sampling and Analysis (SAP) ork Plan or SAP for field duplicates, rinsate blan		<u> </u>	
Chain-of-Custody and Request for Analysi Is the CC/RA present and the origina Is the CC/RA complete and signed o Was the temperature received recor Were any problems noted by the lab What?	al copy?  off as appropriate?  ded by the laboratory and was it 4°C, ±2°? if not oratory on the CC/RA?	what	<u> </u>	<u> </u>
Is the Field Sample Identification and the CC/RA and the laboratory re	analyzed as requested and instructions followed d the Laboratory Number relationship consistent port? s on the CC/RA match those on the laboratory re	between	<u>√</u>	
Was the report signed-and-each-report-pa	ge-stamped-with-the-TETRA-TECH "Date-Receiv	ved" stamp?		Processor de la constitución
Was a project narrative available and read Were any problems noted in the narrative		·	<u> </u>	
Were method numbers, matrices, units an Was all other report heading information a	nd reporting limits indicated and appropriate?		<u> </u>	
Were all field duplicates within relative per	rcent difference (RPD) control limits?		· · · · · · · · · · · · · · · · · · ·	
Were all results for field, rinsate and trip b	lanks ND?	<u> </u>		

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Project Name: Hohan MP Sal Sample Matrix: Sal Laboratory Used: Toward Checked By/On: 18 14 00 2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SWECTA	(102822 1524)	13		Nat Recoverable	<b>✓</b>		
	402577 1296	7	<u> </u>	Net Recoverable	<u> </u>		
						····	
Date		1		Issues and Acti	ons Taken		
14 Oct 2010	Missing MS/M	(SDs					
						91/01/	2 N
	.**						

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Rev. 11-08-07

Project Name: Hickam DAPsan-pling Project Number: 26434-03 Laboratory Used: Torent Lab Project Number: 1010135

Sample Matrix: Soil / Checked By/On: Nihal / 10/28/10

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SW8081A	402720	2	yes	not reconstrable	<b>V</b>		V
							•
Date				Issues and Acti	ons Taken		

Project Name: Sample Matr Side Laboratory Used: Sample Matr Checked By/C	
	N/A YES NO
Is a Quality Assurance Project Plan (QAPP), Work Plan or a Sampling and Analysis (SAP) available? Was the frequency stated in the QAPP, Work Plan or SAP for field duplicates, rinsate blanks and trip blanks met?	<u> </u>
Chain-of-Custody and Request for Analysis (CC/RA) Records: Is the CC/RA present and the original copy? Is the CC/RA complete and signed off as appropriate? Was the temperature received recorded by the laboratory and was it 4°C, ±2°? if not what Were any problems noted by the laboratory on the CC/RA? What?	
CC/RA - Laboratory Report Agreement:  Were all the samples on the CC/RA analyzed as requested and instructions followed?  Is the Field Sample Identification and the Laboratory Number relationship consistent between the CC/RA and the laboratory report?  Do the Sampled and Received dates on the CC/RA match those on the laboratory report for each sample?	<u> </u>
Was the report signed and each report page stamped with the TETRA TECH "Date Received" stamp?	<u> </u>
Was a project narrative available and read? Were any problems noted in the narrative? Describe	<i></i>
Were method numbers, matrices, units and reporting limits indicated and appropriate? Was all other report heading information accurate?	<u> </u>
Were all field duplicates within relative percent difference (RPD) control limits?	
Were all results for field, rinsate and trip blanks ND?	

Project Name: দুন্দের মি জার জার্মার বিশ্ব বিশ্

alysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
*IA	462321	ч	1	3-14 Biconate	/		1
	402333	10-01	/	g - niet Becameter			
	५०८३५%	3	1	1 - Xit Potomette 2 - Increase			
	452316	5	<b>V</b>	2 - Alt Becauside	/		V
						11 201000	
					COMPANIE 1		
			5.000				
Date		-	Associ	Issues and Act	ions Taken	-	
1-2011	Mussing MS/MS	Ds					
+zcio	Missing MBE for	hatches 4023?	53 and 462	2345			
2010							
21/10	3333				adnes not a	m men oc	for all
1.0				-			
2010 2010	Mussing MBs for Missing A LCSs f 2 QC bo analyti	butches 40233 or butches #02333 at the swa ical MS	200 Mp	ported, lake	data ok	un prep oc (2 batch	

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Tetra Tech

Project Name: <u>National Rec Salaring</u> Project Number: <u>T36434.92</u>	Laboratory Used: Terrent Lab Project Number: Laboratory Used: Laboratory U	Sample Mat Checked By/C			sie
	100912		N/A	YES	NO
Is a Quality Assurance Project Plan (QAPP), V Was the frequency stated in the QAPP, Work	Vork Plan or a Sampling and Analysis (SAP) Plan or SAP for field duplicates, rinsate blar	) available? nks and trip blanks met?	<u>√</u>	<u> </u>	
Chain-of-Custody and Request for Analysis (C Is the CC/RA present and the original collis the CC/RA complete and signed off as Was the temperature received recorded Were any problems noted by the laborate What?	py? appropriate? by the laboratory and was it 4°C, ±2°? if not ory on the CC/RA?	what		<del></del>	<u>/</u>
Is the Field Sample Identification and the the CC/RA and the laboratory report?	yzed as requested and instructions followed Laboratory Number relationship consistent the CC/RA match those on the laboratory re	between		<u>√</u>	
Was the report signed and each report page si	tamped with the TETRA TECH "Date Received	ved" stamp?		_/	
Was a project narrative available and read? Were any problems noted in the narrative? De	escribe		·		<u></u>
Were method numbers, matrices, units and rep Was all other report heading information accur	porting limits indicated and appropriate?			<u>\forall </u>	
Were all field duplicates within relative percent	difference (RPD) control limits?		<u>√</u>		
Were all results for field, rinsate and trip blanks	s ND?		<u> </u>		
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Tetra Tech

Project Name: Hickam PM Sall Samples Project Number: 726434 - 62	Laboratory Used: Lab Project Number:	Sample Matrix: _ Checked By/On: <u>3</u>		<u>2616</u>
		N/A	A YES	NO
Is a Quality Assurance Project Plan (QAPP), Was the frequency stated in the QAPP, Wor	, Work Plan or a Sampling and Analysis (SAP k Plan or SAP for field duplicates, rinsate blar	) available? aks and trip blanks met?/		
Chain-of-Custody and Request for Analysis ( Is the CC/RA present and the original or Is the CC/RA complete and signed off a Was the temperature received recorder Were any problems noted by the laborations What?	copy? as appropriate? d by the laboratory and was it 4°C, ±2°? if not atory on the CC/RA?	what	<u> </u>	
Is the Field Sample Identification and the the CC/RA and the laboratory report	nalyzed as requested and instructions followed he Laboratory Number relationship consistent rt? In the CC/RA match those on the laboratory re	between	<u>/</u>	
Was the report signed and each report page	stamped with the TETRA TECH "Date Recei	ved" stamp?	<u> </u>	
Was a project narrative available and read? Were any problems noted in the narrative? I	Describe		_ <u> </u>	
Were method numbers, matrices, units and r Was all other report heading information acc	reporting limits indicated and appropriate?		<u>√</u>	
Were all field duplicates within relative perce	ent difference (RPD) control limits?	✓	<u>_</u>	
Were all results for field, rinsate and trip blan	nks ND?	<u>√</u>		

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Tetra Tech

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SLECTIA	462396 428	3	1	Not Recoverable	<b>/</b>		1
	462371	3 + 3	✓	Not Recoverable			-
		1					
	,			,			
Date				Issues and Acti	ons Taken		•
6 Oct 2010	Messing MS/MST	)s					
66air 2010	Museum, MB and L	Cs for batch 41	52371		<u>.</u>		
					·	-	

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Tetra Tech
Rev. 11-08-07

Project Name: Hickory RAP Sil Simples Project Number: 126434.02 Laboratory Used: Tovant Laboratory Used: Tovant Checked By/On: JK		SIG	-
N/A	YES	NO	
Is a Quality Assurance Project Plan (QAPP), Work Plan or a Sampling and Analysis (SAP) available?  Was the frequency stated in the QAPP, Work Plan or SAP for field duplicates, rinsate blanks and trip blanks met?	<u>√</u>		_
Chain-of-Custody and Request for Analysis (CC/RA) Records: Is the CC/RA present and the original copy? Is the CC/RA complete and signed off as appropriate? Was the temperature received recorded by the laboratory and was it 4°C, ±2°? if not what Were any problems noted by the laboratory on the CC/RA? What?	<u>/</u>	<u>√</u>	
CC/RA - Laboratory Report Agreement:  Were all the samples on the CC/RA analyzed as requested and instructions followed?  Is the Field Sample Identification and the Laboratory Number relationship consistent between the CC/RA and the laboratory report?  Do the Sampled and Received dates on the CC/RA match those on the laboratory report for each sample?	<u>√</u>		_
Was the report signed and each report page stamped with the TETRA TECH "Date Received" stamp?	<u> </u>		_
Was a project narrative available and read? Were any problems noted in the narrative? Describe	<u> </u>	Z	_
Were method numbers, matrices, units and reporting limits indicated and appropriate? Was all other report heading information accurate?	<u>√</u>		_
Were all field duplicates within relative percent difference (RPD) control limits?			_
Were all results for field, rinsate and trip blanks ND?			_

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Tetra Tech

Project Name: Hickar Rift S.A. Sample Matrix: Sold Sample Matrix: Sold Checked By/On: NK 6 Cor Zolo

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SWEGELA	402377 1134	B	/	6-Net Recoverable 2- Increased	/		/
<u></u> -							
	· · · · · · · · · · · · · · · · · · ·						
-							
	-:-						
Date				Issues and Acti	ions Taken		
<b>CON TOLO</b>	MS/MSP Missing	<u></u>					
						<b>3</b>	
			ч		, , , , , , , , , , , , , , , , , , ,		· · · · · · · · · · · · · · · · · · ·
				<del></del>			

Project Name: Hickam RdP Sal Samples, Project Number: 726474.62	Laboratory Used: Lab Project Number:teeq151	Sample Matrix: Checked By/On: _ <u>.</u> }		2014
		N/A	YES	NO
Is a Quality Assurance Project Plan (QAFWas the frequency stated in the QAPP, V	PP), Work Plan or a Sampling and Analysis (SAP) ava Work Plan or SAP for field duplicates, rinsate blanks a	ilable? .nd trip blanks met?	<u> </u>	
Chain-of-Custody and Request for Analysis the CC/RA present and the origin is the CC/RA complete and signed Was the temperature received recower any problems noted by the lawhat?	nal copy? off as appropriate? orded by the laboratory and was it 4°C, ±2°? if not wha boratory on the CC/RA?	t	<u></u>	<u>/</u>
Is the Field Sample Identification ar the CC/RA and the laboratory re	A analyzed as requested and instructions followed? nd the Laboratory Number relationship consistent betweeport? es on the CC/RA match those on the laboratory report		<u>/</u>	
Was the report signed a <del>nd each report p</del>	age-stamped with the TETRA-TECH "Date Received	<del>" stamp?</del>	<u> </u>	
Was a project narrative available and rea Were any problems noted in the narrative				<u></u>
Were method numbers, matrices, units a Was all other report heading information	and reporting limits indicated and appropriate?	•	<u></u>	
Were all field duplicates within relative pe	ercent difference (RPD) control limits?			
Were all results for field, rinsate and trip I	blanks ND?			
0.15				

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Tetra Tech

Project Name: Hickan RAP Sal Sample Matrix: Sal Sample Matrix: Sal Sample Matrix: Sal Checked By/On: 41/2 6 cod 2010

Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
402386 1131	14	<b>√</b>	Not Recoverable	<b>✓</b>		√ √
462593	24	$\sqrt{}$	18 - Let Recovereble	<u> </u>		/
-	,				····	
						,
					,,,,-,:-	
						<del>-</del>
						<u> </u>
					<u></u>	,
			Issues and Action	ons Taken		
Messine USAS	SDs			<del></del> .		
, , , , , , , , , , , , , , , , , , ,						
	<del>-</del> .			· ·	<del></del>	
	<del></del>	<u>.                                    </u>	· .			·
	QC Batch Number 402386 (434) 462543	Laboratory QC Batch Number Samples in Batch	Laboratory QC Batch Number  402386  462593  132  14  24  TETRA TECH Samples in Batch  Met  14  24	Laboratory QC Batch Number  402326  132  14  14  18 - Not Recoverable 6 - Increased  Issues and Actice	Laboratory QC Batch Number  402386  14  Volume  132  14  Volume  18 - Net Recoverable 6 - Increased  Issues and Actions Taken	Laboratory QC Batch Number  402386  14  462583  132  14  15  16  16  16  16  16  16  16  16  16

Project Name: Hickom RAP Sal Samples
Project Number: 726434 -02

Laboratory Used: Torrent

Lab Project Number: 1004156

Sample Matrix: Sal Checked By/On: Sk 6 act zero

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
3W6081A	<b>५७</b> २५४५	18	√	17- met Recoverable			
	402405 177	3	/	Not Recoverable	1		
	402468	2	<b>√</b>	1-ist Recoverable i- horeard			
Date				Issues and Act	ons Taken		
bot tou	Missing Abayly	isis for sample	s zua; zs	A; 26A; 27A; 28;	A; 29A; 30A - au	rived Sarked	
Cet 2616	The state of the s	d Liss for both					
Oct 2010	Massing MS/M					-	
10/21/10	EAR3-R	434"a"-01	e Sha	uld be 3	46-06/3	34a alread	111 WO 1009
11/1/10	lab rev	ised repo	nt to	discuss th	ese issues in	0 0000 000	takin anti
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Tetra Tech

Project Name: Hickon RAP Sal Surplus Project Number: 86434.02	Laboratory Used: <u>Նուա</u> փ Lab Project Number: <u>1884/56</u>	Sample Matrix: Sall Checked By/On: JE 6 Oct 2010	_
¥3		N/A YES NO	C
Is a Quality Assurance Project Plan (QAPF Was the frequency stated in the QAPP, Was the frequency stated in the QAPP.	P), Work Plan or a Sampling and Analysis (SAP ork Plan or SAP for field duplicates, rinsate blan	e) available?  nks and trip blanks met?	
Chain-of-Custody and Request for Analysis Is the CC/RA present and the original Is the CC/RA complete and signed of Was the temperature received record Were any problems noted by the labor What?	I copy? If as appropriate? Ied by the laboratory and was it 4°C, ±2°? if no	t what	
Is the Field Sample Identification and the CC/RA and the laboratory rep	analyzed as requested and instructions followed the Laboratory Number relationship consistent ort? on the CC/RA match those on the laboratory re	t between	
Was the report signed and each report pag	ge stamped with the TETRA TECH "Date Rece	ived" stamp?	
Was a project narrative available and read Were any problems noted in the narrative?	? Describe 7 samples southed with water 241 29 A, 30 A	, 25 A , 26 A , 27 A , 28	_
Were method numbers, matrices, units and Was all other report heading information ac	d reporting limits indicated and appropriate?	<u>./</u>	_
Were all field duplicates within relative per	cent difference (RPD) control limits?	<u> </u>	
Were all results for field, rinsate and trip bla	anks ND?	<u> </u>	

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Project Name: Hukim RiP Sol Sumplins Project Number: 774434.62 Sample Matrix: Sil Checked By/On: 3ll 6 cur Zoio

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SWEUELA	462408	පි	1	7- just Recornide			
	483429 1187	72	1	Increwed	<b>✓</b>		✓ II
	402430 1188	7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Not Recoverable	/		4
	40243i 1262	į	V	Incresea	<b>/</b>		/
Date		<u> </u>		Issues and Acti	<u></u>	·	
6 Oct 2610	Missing US/A	USD4					
3 Oct 2010	Maske MR and	ICS for batch	402408		E\$)		
11/1/10	Lab did	report	appropi	riate ms	/MSD + LC	S > valid	ated/or

Project Name: <u>Kickam RAP S., I Samplar</u> Project Number: <u>726424 . 62</u>	Laboratory Used: Torrest	Sample Matr	ix: <u> </u>	al	
Tojout Number. (284 92.02	Lab Project Number: 109165	Checked By/C	)n: <u>↓⊬</u>	6 Oct 70	210
			N/A	YES	NO
ls a Quality Assurance Project Plan (QAP Was the frequency stated in the QAPP, W	PP), Work Plan or a Sampling and Analysis (SAP) av Vork Plan or SAP for field duplicates, rinsate blanks	/ailable? and trip blanks met?	<u> </u>	<u> </u>	
Chain-of-Custody and Request for Analys Is the CC/RA present and the original Is the CC/RA complete and signed or	sis (CC/RA) Records: al copy? off as appropriate? rded by the laboratory and was it 4°C, ±2°? if not where the common on the CC/RA?			<u>Z</u>	<u>/</u>
the CC/RA and the laboratory re	analyzed as requested and instructions followed? d the Laboratory Number relationship consistent bet port? s on the CC/RA match those on the laboratory repor			<u>/</u>	
Was the report signed a <del>nd each report pa</del>	ige stamped with the TETRA TECH "Date Received	l" stamp?			
Was a project narrative available and read Were any problems noted in the narrative	d? ? Describe			<u> </u>	_
Were method numbers, matrices, units an Was all other report heading information a	nd reporting limits indicated and appropriate?			<u>/</u>	
Nere all field duplicates within relative per	rcent difference (RPD) control limits?				
Were all results for field, rinsate and trip b	lanks ND?		<u>√</u>		
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Project Name: Hickam PAP Sil Sumplins Project Number: 1726434 . CZ

 Sample Matrix: Sail
Checked By/On: NV 6 Oct 2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SW8081A	402405 "77	6	/	Wit Recoverable	/		<b>✓</b>
	402408	ι	/	Increased			
				(F)			
					2.4		
Date			<u> </u>	Issues and Acti	ons Taken		
6 Oct 2010	CC is missing			Λ.			
ECIT ZOIC	Temp not in compl	liance according	to let. Tem	p Chknowr.	incorrect	DEY NMD	
60er Zoic	Messing MS/MST	)					
6 Oct 2010	Mesons MB and L	CS for 6-1th 400	7402				
20 oct 1	v. COC Se	nt on	10/19	ho			

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Rev. 11-08-07

Lab reported

MS/MSD and LCS > report validated/OK

Project Name: Hickam PAR Sal Sampling Project Number: TZE434 - OZ	Laboratory Used: Tarrent  Lab Project Number: 1002176	Sample Matri Checked By/O	ix: <u>S</u> n: <u>JK</u>	est 6 Act 20	ovs_
T (87)			N/A	YES	NO
Is a Quality Assurance Project Plan (QAPP), We Was the frequency stated in the QAPP, Work P	ork Plan or a Sampling and Analysis (SAF Plan or SAP for field duplicates, rinsate bla	P) available? anks and trip blanks met?	$ \mathcal{L} $	<u></u>	
Chain-of-Custody and Request for Analysis (CC) Is the CC/RA present and the original copy Is the CC/RA complete and signed off as a Was the temperature received recorded by Were any problems noted by the laborator What? Not CC is note on	appropriate? According to the laboratory and was it 4°C +2°? if no	ot what <u>N/A</u> .			<u>/</u>
CC/RA - Laboratory Report Agreement:  Were all the samples on the CC/RA analysis the Field Sample Identification and the Laboratory report?  Do the Sampled and Received dates on the CC/RA and the laboratory report?	Laboratory Number relationship consisten	nt between		<u>Unkero</u> <u>Contro</u>	
Was the report signed and each report page sta	amped with the TETRA TECH "Date Rece	vived" stamp?		<u> </u>	
Was a project narrative available and read? Were any problems noted in the narrative? Des	scribe				<u></u>
Were method numbers, matrices, units and repo Was all other report heading information accura	orting limits indicated and appropriate?			7	
Were all field duplicates within relative percent o	difference (RPD) control limits?				
Were all results for field, rinsate and trip blanks	ND?		<u> </u>		

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Tetra Tech

Project Name: Hicken Reth Sal Samples Project Number: T26434.02 Laboratory Used: Tocress
Lab Project Number: 160418'3 Sample Matrix: Sul Checked By/On: JK 7 & 2016

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Splke Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SUSCEIA	402456	20	<b>/</b>	Not Recoverable			
	यठअइ७	ાટ	<b>1</b>	Not Becomemble			
	92						
Date				Issues and Acti	ons Taken		
7 cur zouc	Missins Al MB	s, MS/MSDs, an	a LCS,				17
10/28	CoC w	as missi	ng bi	t was ser	101 on 10/1	9/10 > 1/0	lidated/OK
		- 3	0			/	/
						E1	
			-		ří		

Project Name: Hickory RAP Sol Sampling Project Number: TSG 434, 02	Laboratory Used:	Sample Matrix Checked By/Or			16 C
			N/A	YES	NO
Is a Quality Assurance Project Plan (QAPP) Was the frequency stated in the QAPP, Wo	), Work Plan or a Sampling and Analysis (SAP) a ork Plan or SAP for field duplicates, rinsate blank	available? s and trip blanks met?	$\checkmark$	<u>/</u>	
Chain-of-Custody and Request for Analysis Is the CC/RA present and the original Is the CC/RA complete and signed off Was the temperature received records Were any problems noted by the labor What?	copy? as appropriate? ed by the laboratory and was it 4°C, ±2°? if not was ratory on the CC/RA?	/hat		<u>Z</u>	<u> </u>
the CC/RA and the laboratory repo	nalyzed as requested and instructions followed? the Laboratory Number relationship consistent b ort? on the CC/RA match those on the laboratory rep	etween		<u>/</u>	
Was the report signed.and each report page	e stamped with the TETRA TECH "Date Receive	ed" stamp?			
Was a project narrative available and read? Were any problems noted in the narrative?	Describe	·	<u> </u>		
Were method numbers, matrices, units and Was all other report heading information according to the control of t	reporting limits indicated and appropriate? curate?			<u>~</u>	
Were all field duplicates within relative perce	ent difference (RPD) control limits?		$\checkmark$		
Were all results for field, rinsate and trip bla	nks ND?		$\checkmark$		
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Tetra Tech

Project Name: Micham PAP Sul Sumpling Project Number: 726434, 02	Laboratory Used: Torrent Sam Lab Project Number: 10040001 Check	ple Matrix: <u> </u>	<u>Šed</u> 7 Qvr	2010
		N/A	YES	NO
Is a Quality Assurance Project Plan (QAPF Was the frequency stated in the QAPP, W	P), Work Plan or a Sampling and Analysis (SAP) available? ork Plan or SAP for field duplicates, rinsate blanks and trip blank	s met?	<u>√</u>	
Chain-of-Custody and Request for Analysis Is the CC/RA present and the original Is the CC/RA complete and signed or Was the temperature received record Were any problems noted by the laboration.	Il copy? If as appropriate? Ided by the laboratory and was it 4°C, ±2°? if not what Idea by the laboratory and was it 4°C, ±2°? if not what		<u>-/</u>	<u> </u>
Is the Field Sample Identification and the CC/RA and the laboratory rep	analyzed as requested and instructions followed? If the Laboratory Number relationship consistent between port? If on the CC/RA match those on the laboratory report for each sai	mple?	<u> </u>	
Was the report signed and cach report pag	ge stamped with the TETRA TECH "Date Received" stamp?	<del></del>	<u> </u>	
Was a project narrative available and read Were any problems noted in the narrative?	? Describe		<u> </u>	_
Were method numbers, matrices, units and Was all other report heading information a	d reporting limits indicated and appropriate?		<u> </u>	
Were all field duplicates within relative per	cent difference (RPD) control limits?			
Were all results for field, rinsate and trip bl	anks ND?	<u></u>		
0.00				

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Project Name: <u>History RAP Sel Sampley</u> Project Number: <u>T26434 . 62</u> Laboratory Used: <u>Torcont</u> Lab Project Number: <u>ভিন্তবি</u> Sample Matrix: <u>১ল</u> Checked By/On: <u>১৮.২ কেল আচ</u>

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SWECEL	402480 1516	20	<b></b>	16 - N.t Recoverable 13 - Increased			<b>/</b>
	405484 1212	20		hit Recoverable		,	
<del>""</del>							_
,,	· · · · · ·						
			<u> </u>				
,						<del></del>	
Date				Issues and Acti	ons Taken		
7 Oct 2010	Missing US/MS	Ds					
704 2010	Error on CC	COSA (EARS	- RA- 416-	CE) Time 9:65	- Lat recorded 4	1.35	· · · · · · · · · · · · · · · · · · ·

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Project Name: thoken RAR Sa Surpling Project Number: 126434662	Laboratory Used: <u>राज्यान</u> Sample M Lab Project Number: <u>।ळ्यान</u> Checked E	Matrix: <u> </u>		ინ
		N/A	YES	NO
Is a Quality Assurance Project Plan (QAF Was the frequency stated in the QAPP, V	PP), Work Plan or a Sampling and Analysis (SAP) available? Work Plan or SAP for field duplicates, rinsate blanks and trip blanks me	et? <u>√</u>		
Chain-of-Custody and Request for Analysis the CC/RA present and the origin Is the CC/RA complete and signed Was the temperature received recowere any problems noted by the late What?	nal copy? off as appropriate? orded by the laboratory and was it 4°C, ±2°? if not what		<u> </u>	<u>/</u>
CC/RA - Laboratory Report Agreement: Were all the samples on the CC/RA Is the Field Sample Identification ar the CC/RA and the laboratory re	A analyzed as requested and instructions followed?  Ind the Laboratory Number relationship consistent between  Export?  Export on the CC/RA match those on the laboratory report for each sample	?	<u> </u>	
Was the report signed and each report pa	age stamped with the TETRA TECH "Date Received" stamp?		<u> </u>	
Was a project narrative available and rea Were any problems noted in the narrative	d? e? Describe	•	<u> </u>	
Were method numbers, matrices, units a Was all other report heading information	nd reporting limits indicated and appropriate? accurate?		$\leq$	
Were all field duplicates within relative pe	ercent difference (RPD) control limits?			
Were all results for field, rinsate and trip to	planks ND?	<u></u>		
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Tetra Tech

Project Name: Hickam RAP Sal Sampling Project Number: 726434 62 Laboratory Used: \_Torrest
Lab Project Number: \_1009194

Sample Matrix: Soil
Checked By/On: July 7 Oct 26 its

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
508031A	410Z48S	18		16-ite Percental			
· -							
						·	
Date			<u></u>	Issues and Acti	ions Taken		
70ct 2010	Missing MS/MS	SD_				·	
					·		

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Project Name: Hickam RAP Soil Samphing	Laboratory Used:	Sample Matrix:		L 201A	
Project Number: TZ6434.62	Lab Project Number: 1004217	Checked By/On:	7K 11 CF	<u> 2000</u>	
		N	/A YE	ES N	10
Is a Quality Assurance Project Plan (QAPF Was the frequency stated in the QAPP, We	P), Work Plan or a Sampling and Analysis (SAP) avork Plan or SAP for field duplicates, rinsate blanks	/ailable? and trip blanks met?	<u></u>	<u>_</u> _	
Chain-of-Custody and Request for Analysis Is the CC/RA present and the origina Is the CC/RA complete and signed of Was the temperature received record Were any problems noted by the laborate.	il copy? ff as appropriate? ded by the laboratory and was it 4°C, ±2°? if not wh	, nat	 		<u>_</u>
is the Field Sample Identification and the CC/RA and the laboratory rep	analyzed as requested and instructions followed? If the Laboratory Number relationship consistent be port? If on the CC/RA match those on the laboratory repo			<u> </u>	····
Was the report signed and each report page	ge stamped with the TETRA TECH "Date Received	<del>d" stamp?</del> -		<u> </u>	
Was a project narrative available and read Were any problems noted in the narrative?	d? ? Describe	•		<u>_</u>	$\overline{Z}$
Were method numbers, matrices, units an Was all other report heading information a	nd reporting limits indicated and appropriate?		<u></u>	<u>/</u> -	
Were all field duplicates within relative per	rcent difference (RPD) control limits?	-	<u> </u>	*	* · · · · · · · · · · · · · · · · · · ·
Were all results for field, rinsate and trip b	lanks ND?		<u> </u>		

Tetra Tech

Project Name: Holtan RAP Sal Samples
Project Number: 726434.02

 Sample Matrix: Soil
Checked By/On: N. N. Oak 2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
AI 808 WA	402493	18	<b>√</b>	Not Recoverable	<b>√</b>		
							°
							· · · · · · · · · · · · · · · · · · ·
		1					
Date			•	Issues and Act	ions Taken		
11 Ost 2010	Missing MS/M	.sD					
				•			

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Project Number: 100 250 Checked Byron. 1450 Checked Byron. 1450 Checked Byron.	Project Name: Hickam PAP soil sample Project Number: 210434.03	Laboratory Used: Towent Lab Project Number: 1009230	Sample Matrix: Soil Checked By/On: NWO 10/21/2010
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Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
A1808W2	402542 1248	26	/	25 not recoverable/dill	ts /		V
A1808W	402551 1248	2		Not rewealth forlute	<u> </u>		
-							
	1					-1-2-3-3-3	
Date	Issues and Actions Taken						
10/21/10	1001 DIL - (D) 100 DI						

	ample Matrix:ecked By/On:	
	N/A YES NO	)
Is a Quality Assurance Project Plan (QAPP), Work Plan or a Sampling and Analysis (SAP) available? Was the frequency stated in the QAPP, Work Plan or SAP for field duplicates, rinsate blanks and trip bla	anks met?	_
Chain-of-Custody and Request for Analysis (CC/RA) Records:  Is the CC/RA present and the original copy?  Is the CC/RA complete and signed off as appropriate?  Was the temperature received recorded by the laboratory and was it 4°C, ±2°? if not what  Were any problems noted by the laboratory on the CC/RA?  What?		
CC/RA - Laboratory Report Agreement:  Were all the samples on the CC/RA analyzed as requested and instructions followed?  Is the Field Sample Identification and the Laboratory Number relationship consistent between the CC/RA and the laboratory report?  Do the Sampled and Received dates on the CC/RA match those on the laboratory report for each	sample?	
Was the report signed and each report page stamped with the TETRA TECH "Date Received" stamp?	?	
Was a project narrative available and read? Were any problems noted in the narrative? Describe		/
Were method numbers, matrices, units and reporting limits indicated and appropriate? Was all other report heading information accurate?	<u> </u>	
Were all field duplicates within relative percent difference (RPD) control limits?		
Were all results for field, rinsate and trip blanks ND?		

Project Name: Hickam PAP coil samply Project Number: 24434.03

Laboratory Used: Tarent
Lab Project Number: 1010002

Sample Matrix: Soil
Checked By/On: NMO 10/20/2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
Su8081A	402556 1279	38		All diluted 34 notin	collabe —		
	110000						
						*	
Date				issues and Ad	tions Taken		
10/21/10	mBs and	LCS, mis	sinf			A	1
11/1/10	1 alo sen	t revised	LE DON.	tw/ m	MSD 1 L	S > valid	aled/ok
77					/		/

Project Name: Same as other side. Project Number:	Laboratory Used:ab Project Number:	Sample Matrix Checked By/Or	x: n:		
			N/A	YES	NO
Is a Quality Assurance Project Plan (QAPP), Work Was the frequency stated in the QAPP, Work Plan			V		
Chain-of-Custody and Request for Analysis (CC/F Is the CC/RA present and the original copy? Is the CC/RA complete and signed off as ap Was the temperature received recorded by the Were any problems noted by the laboratory What?	opropriate? the laboratory and was it 4°C, ±2°? i on the CC/RA?	, f not what		\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
CC/RA - Laboratory Report Agreement:  Were all the samples on the CC/RA analyze Is the Field Sample Identification and the La the CC/RA and the laboratory report?  Do the Sampled and Received dates on the	boratory Number relationship consis	stent between		✓ ✓	
Was the report signed and each report page stam	nped with the TETRA TECH "Date R	leceived" stamp?			
Was a project narrative available and read? Were any problems noted in the narrative? Description	ribe	·			
Were method numbers, matrices, units and report Was all other report heading information accurate		?		2	
Were all field duplicates within relative percent dif	fference (RPD) control limits?				
Were all results for field, rinsate and trip blanks N	D?				

Project Name: Hickam PARson sampling Project Number: 24434.03

Sample Matrix: 501 Checked By/On: NWO /10/20/2010

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
A1808W	402577 1294	18	/	AII D, 2 recovered	\( \sqrt{1} \)		V
	402595 1316	1	/	D, not reconerable	/		
	402583 1304	17		All D. not recover	bla		
-							
							4
Date				Issues and Acti	ons Taken		
10/21/10	Sample &	AR3-RA-41	Of-6 is	listed wice	in sample	results and	US, which
1				RA-40d-12		in the CC	= the
	results	101			mean its	ust misla	beled
10/21/10	the time			A STATE OF THE PARTY OF THE PAR		HR3-RA-1SC-	12, says
7 110		and be	1.440.000		in cc		, ,
uppylin	1 -			^	Concentration	s in 15-A	(3rd triplic
Mall	1 10	Cesial In	. •	0			-

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1/22/10 Lab revised report to address all issues, including reanalyzing triplicates
veport validated or

Project Name: Same as other Side Project Number:	Laboratory Used:  Lab Project Number: 1010014	Sample Matri Checked By/Or	x: n:		
			N/A Y	ES NO	
Is a Quality Assurance Project Plan (QAPP), Was the frequency stated in the QAPP, Work F			<u> </u>	<u> </u>	
Chain-of-Custody and Request for Analysis (Could like the CC/RA present and the original could like the CC/RA complete and signed off as Was the temperature received recorded like were any problems noted by the laborate What?	py? appropriate? by the laboratory and was it 4°C, ±2°? if no ory on the CC/RA?	ot what		<u> </u>	,
Is the Field Sample Identification and the the CC/RA and the laboratory report?	yzed as requested and instructions followed Laboratory Number relationship consister the CC/RA match those on the laboratory	nt between			one Sample Missing o mis laket
Was the report signed and each report page st	tamped with the TETRA TECH "Date Rece	eived" stamp?	_		
Was a project narrative available and read? Were any problems noted in the narrative? De	escribe		=	<u> </u>	/
Were method numbers, matrices, units and rep Was all other report heading information accur	=		=	$\int_{-\infty}^{\infty}$	
Were all field duplicates within relative percent	difference (RPD) control limits?			<u>/</u>	
Were all results for field, rinsate and trip blanks	s ND?				

Tetra Tech

Project Name: Hickam RAP soil sampling Laboratory Used: Torent Sample Matrix: Soil Lab Project Number: 1010031 Checked By/On: Nmo 10/21/10

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
SW8081A	402595 1312	26		1- R within Lin	a la		~
				•		•	
						· · · · · · · · · · · · · · · · · · ·	
		·					
Date				Issues and Action	ons Taken		
10/21/10	Temperature	not an co	: but	is stated in u	Cample receip	- checklist A	ion lab
16/2/1/10	missing M	B+ LCS f	or bata	ch 402595	prep bate	h 1312	
10/21/10	Don't Cha	ve "revis	ed rep	port wru	e have a	revised 7	EDD.
11/1/10	Lab ocn	t revised			dated/OK	-	
			V		/		

same as other side Project Name: \_\_\_\_\_
Project Number: \_\_\_\_\_ Sample Matrix: Checked By/On: N/A YES NO Is a Quality Assurance Project Plan (QAPP), Work Plan or a Sampling and Analysis (SAP) available? Was the frequency stated in the QAPP, Work Plan or SAP for field duplicates, rinsate blanks and trip blanks met? Chain-of-Custody and Request for Analysis (CC/RA) Records: Is the CC/RA present and the original copy? Is the CC/RA complete and signed off as appropriate? Was the temperature received recorded by the laboratory and was it 4°C, ±2°? if not what Were any problems noted by the laboratory on the CC/RA? What?\_\_\_\_\_ CC/RA - Laboratory Report Agreement: Were all the samples on the CC/RA analyzed as requested and instructions followed? Is the Field Sample Identification and the Laboratory Number relationship consistent between the CC/RA and the laboratory report? Do the Sampled and Received dates on the CC/RA match those on the laboratory report for each sample? Was the report signed and each report page stamped with the TETRA TECH "Date Received..." stamp? Was a project narrative available and read? Were any problems noted in the narrative? Describe Were method numbers, matrices, units and reporting limits indicated and appropriate? Was all other report heading information accurate? Were all field duplicates within relative percent difference (RPD) control limits?

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Were all results for field, rinsate and trip blanks ND?

Project Name: Hickam RAP soil sampling Laboratory Used: Torrent
Project Number: 1010051

Sample Matrix: Soil
Checked By/On: Number: 10/21/10

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
	402631 1335	5		all diluted	,		/
"	402642 1875	7	/	4			
<del></del>							
Date				Issues and Action	ons Taken		
10/21/10	missing	MBA LC	s for	batch 40	2642		
1							

Project Name: Same as other side. Project Number:	Laboratory Used:	Sample Matrix:Checked By/On:	_
		N/A YES NO	)
Is a Quality Assurance Project Plan (QAPP), Was the frequency stated in the QAPP, Work	Nork Plan or a Sampling and Analysis (SAP) a Plan or SAP for field duplicates, rinsate blank	available? as and trip blanks met?	_
Chain-of-Custody and Request for Analysis (C Is the CC/RA present and the original co Is the CC/RA complete and signed off as Was the temperature received recorded Were any problems noted by the laborate What?	ppy? s appropriate? by the laboratory and was it 4°C, ±2°? if not work on the CC/RA?	vhat	
Is the Field Sample Identification and the the CC/RA and the laboratory report?	lyzed as requested and instructions followed? e Laboratory Number relationship consistent b ? the CC/RA match those on the laboratory rep	petween	
Was the report signed and each report page s	stamped with the TETRA TECH "Date Receive	ed" stamp?	_
Was a project narrative available and read? Were any problems noted in the narrative? De	escribe		_
Were method numbers, matrices, units and re Was all other report heading information accur			_
Were all field duplicates within relative percent	t difference (RPD) control limits?		_
Were all results for field, rinsate and trip blank	s ND?		_

Project Name: Hickary RAPsolsamply Laboratory Used: Threat Sample Matrix: Soil Lab Project Number: 1010113 Sample Matrix: Soil Checked By/On: NMO 10/21/1

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
A1808W2	402642 1384	2	V	Not reconsable			
			<u> </u>				
			<u> </u>				<u> </u>
Date				issues and Acti	ons Taken		
					****		
		<u> </u>			· · · · · · · · · · · · · · · · · · ·		

Project Name: Same as other side Project Number:	Laboratory Used:  Lab Project Number: 1010113	Sample Matrix: Checked By/On:
		N/A YES NO
Is a Quality Assurance Project Plan (QAPP), Was the frequency stated in the QAPP, Work		
Chain-of-Custody and Request for Analysis (Color Is the CC/RA present and the original color Is the CC/RA complete and signed off a Was the temperature received recorded Were any problems noted by the laborate What?	opy? as appropriate? I by the laboratory and was it 4°C, ±2°? tory on the CC/RA?	if not what
CC/RA - Laboratory Report Agreement:  Were all the samples on the CC/RA and is the Field Sample Identification and the the CC/RA and the laboratory report Do the Sampled and Received dates on	e Laboratory Number relationship const?	istent between
Was the report signed and each report page	stamped with the TETRA TECH "Date I	Received" stamp?
Was a project narrative available and read? Were any problems noted in the narrative?	Describe	
Were method numbers, matrices, units and re Was all other report heading information accu		2?
Were all field duplicates within relative percer	nt difference (RPD) control limits?	
Were all results for field, rinsate and trip blank	ks ND?	

Project Name: Hickam PAPsoil Sunding Laboratory Used: Torrent
Project Number: 24434-03

Lab Project Number: 1010042

Sample Matrix: Soil Checked By/On: NWO 10/21/10

Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)
4026161316	9		4 reward-ox			
	3	V	3 recovered - OK	-		
402629 1333	17		17 recovered-ok			V
402630 1334	λ		recovered - OK	<b>/</b>		
1000						
	······		Issues and Acti	ons Taken		
MB:4LC	S. missir	p for	402616 a	rd 402628		
	0 - 1				ided from	10 10031
				1 /1.		en
				/		/
			V		rt valida	red/ok
The set	11 0011-0	·	TO		V	
	QC Batch Number 4026/6 1346 402626 1333 402629 1333 402629 1333 402630 1334 MB = 4 LC Missing ONI-RE	Laboratory QC Batch Number  4026/61346  4026/261333  402629  1333  402629  1333  402630  1334  MB & LCS & missir Missing 3rd page Transcription emo	Laboratory QC Batch Number  4026/6 1346  402626 1333  402629 1333  402629 1333  402630 1334  MB & LCS & missirf for missire for missire and page of CC Transcription error for onl-2A-16 not "16"	Laboratory QC Batch Number  Holding Times Batch  Holding Times  Ho26/16/346  402/62/8 1333  402/62/8 1333  HO2/62/8 1333  HO2/	Laboratory QC Batch Number  Holding Times Met Surrogates  Method Blank (MB)  4026/16 1346  4026/26 1333  3 recovered - ox  4026/26 1333  17 recovered - ox  4026/26 1333  17 recovered - ox  4026/26 1333  17 recovered - ox  18 sues and Actions Taken  MB = 4 LCS s missing for 4026/28  missing 3rd page of CC, unong CC page atta  Transcription error for 1010042-10A, -11A SW  0N1-RA-16 not "16" by this was dready	Laboratory QC Batch Number  Holding Times Met  Surrogates  Method Blank (MB)  Holding Times Met  Holding Times Met  Surrogates  Holding Times Met  Granscription  For Governd-ov  Holding Times Met  Surrogates  Method Blank (MS/MSD)  Method Blank (MS/MSD)  Method Blank (MS/MSD)  Holding Times Met  Surrogates  Method Blank (MS/MSD)  Holding Times Met  Duplicate (MS/MSD)  For Governd-ov  For Governd

Project Name: <u>Same as other side</u> Project Number:	Laboratory Used:	Sample Matri Checked By/O			
87			N/A	YES NO	
Is a Quality Assurance Project Plan (QAPP), W Was the frequency stated in the QAPP, Work F			1		
Chain-of-Custody and Request for Analysis (Country Is the CC/RA present and the original copuls the CC/RA complete and signed off as Was the temperature received recorded to Were any problems noted by the laborato What?	by? appropriate? by the laboratory and was it 4°C, ±2°? if not we bry on the CC/RA?	, hat			- 3rdagr missin
Is the Field Sample Identification and the the CC/RA and the laboratory report?	yzed as requested and instructions followed? Laboratory Number relationship consistent be the CC/RA match those on the laboratory repo			<u> </u>	•
Was the report signed and each report page st	amped with the TETRA TECH "Date Receive	d" stamp?			
Was a project narrative available and read? Were any problems noted in the narrative? De	escribe		·		
Were method numbers, matrices, units and rep Was all other report heading information accur-	•				
Were all field duplicates within relative percent	difference (RPD) control limits?				
Were all results for field, rinsate and trip blanks	s ND?				

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Project Name: Hickam RAP sal sarphy Laboratory Used: Torrent Sample Matrix: Soil Project Number: 26434.03 Lab Project Number: 1010052 Checked By/On: Miles 10/2/

Analysis	Laboratory QC Batch Number	Number of TETRA TECH Samples in Batch	Holding Times Met	Surrogates	Method Blank (MB)	Matrix Spike/Matrix Spike 'Duplicate (MS/MSD)	Laboratory Control Spike (LCS)		
A1808W	402642 1334	16		5 recovered OX	V				
····									
Date		Issues and Actions Taken							
-									

Project Name: Holding PAP Sal Sampling Laboratory Used: Torrent Sal Project Number: 1010052 Che	ample Matrix: Soil ecked By/On: NWO 10/21/10
	N/A YES NO
Is a Quality Assurance Project Plan (QAPP), Work Plan or a Sampling and Analysis (SAP) available? Was the frequency stated in the QAPP, Work Plan or SAP for field duplicates, rinsate blanks and trip bla	anks met?
Chain-of-Custody and Request for Analysis (CC/RA) Records:  Is the CC/RA present and the original copy?  Is the CC/RA complete and signed off as appropriate?  Was the temperature received recorded by the laboratory and was it 4°C, ±2°? if not what  Were any problems noted by the laboratory on the CC/RA?  What?	
CC/RA - Laboratory Report Agreement:  Were all the samples on the CC/RA analyzed as requested and instructions followed?  Is the Field Sample Identification and the Laboratory Number relationship consistent between the CC/RA and the laboratory report?  Do the Sampled and Received dates on the CC/RA match those on the laboratory report for each	sample?
Was the report signed and each report page stamped with the TETRA TECH "Date Received" stamp	?
Was a project narrative available and read? Were any problems noted in the narrative? Describe	
Were method numbers, matrices, units and reporting limits indicated and appropriate? Was all other report heading information accurate?	<del></del>
Were all field duplicates within relative percent difference (RPD) control limits?	
Were all results for field, rinsate and trip blanks ND?	

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