Page 1

From: "Kevin Taylor" <ktaylor@energysolutions.com> "Adams, Wade" <Wade.Adams@orau.org>, "John Nicholson" <JJN@nrc.gov> Wed, Oct 31, 2007 2:20 PM Date: Surveys from Whittaker Sect 1 SU3 Subject:

Wade:

To:

5MA-1018 040**07**455

The surveys we discussed are attached.

John:

Wade said that his report on Section 1 Survey Unit 3 samples (second visit) is on its way to you. When can we expect to get some sort of concurrence from you that we are OK to back fill Section 1 SU3? We are hoping to demobilize in a couple of weeks and want to backfill to stabilize the area for winter. Please give me a call when you can.

Thanks

Kevin E. Taylor, PE, CHP

EnergySolutions, LLC

17 College St., Suite D

Greenville, SC 29601

864.235.3695 - office

864.235-8405 - fax

864.414.3831 - cell

ktaylor@energysolutions.com

CC: "Gerard Toumey" <gtoumey@energysolutions.com>, "Dennis L. Davids" <dldavids@energysolutions.com>

Mail Envelope Properties (4728C743.DC1 : 6 : 48577)

Subject:	Surveys from Whittaker Sect 1 SU3
Creation Date	Wed, Oct 31, 2007 2:18 PM
From:	"Kevin Taylor" < <u>ktaylor@energysolutions.com</u> >

Created By:

ktaylor@energysolutions.com

Recipients

nrc.gov kp1_po.KP_DO JJN (John Nicholson)

energysolutions.com dldavids CC (Dennis L. Davids) gtoumey CC (Gerard Toumey)

orau.org

Wade.Adams (Wade Adams)

Post Office

kp1_po.KP_DO

Route

nrc.gov energysolutions.com orau.org

Files	Size
MESSAGE	617
TEXT.htm	5232
WS-07-1067_0003 - S1 SU3 ho	ole.pdf
WS-07-1065 - pipe survey.pdf	646869
Mime.822	1715081

Options

Expiration Date:	None
Priority:	Standard
ReplyRequested:	No
Return Notification:	None

Concealed Subject:NoSecurity:Standard

Junk Mail Handling Evaluation Results

Message is eligible for Junk Mail handling This message was not classified as Junk Mail Date & Time

Wednesday, October 31, 2007 2:18 PM

599975

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Junk Mail settings when this message was delivered

Junk Mail handling disabled by User

Junk List is not enabled

Junk Mail using personal address books is not enabled

Block List is not enabled



Surveyor:	Dave Stainaker Print		Haunt	Sign	8			10/30/2007 Date			
teviewer:	Dennis Davids Print		Dance			_		10/30/2007 Date			
urvey Meters	Print		00	sign				Date			
Direct Gamma Measurements NA		6	NA			NA			Dose Rate Results		
leter Model #	2221	Meter Model #	2221	Meter Model #		NA	Meter Model #		NA	Meter Model #	19
eter Serial #	176955	Meter Serial #	176955	Meter Serial #		NA	Meter Serial #		NA	Meter Serial # 21	07505
robe Serial #	207827	Probe Serial #	207827	Probe Serial #		NA	Probe Serial #		NA	Cal Due 3/2	8/2008
al Due	3/27/2008	Cal Due	3/27/2008	Cal Due		NA	Cal Due		NA	Туре «. р т	Y
fficiency (%)	10%	Efficiency (%)	NA	Efficiency (%)		NA	Efficiency (%)		NA	BKG (µR/hr)	10
γρε α, βγ	NA	Туре а. Ву	NA	Туре ч. ру		NA	Туре а. Лу		NA	Guideline (µR/hr)	NA
ample Time (min)	1	Sample Time (min)	1	Sample Time (min)		NA	Sample Time (min)	NA	Action Level (µR/hr)	NA
ackground Time (min)	10	Background Time (min)	10	Background Time (mir	1)	NA	Background Time	(min)	NA	- And Anna Same	
ackground Reading (counts)	103365	Background Reading (counts)	NA	Background Reading (counts)	NA	Background Read	ing (counts)	NA		
KG (cpm)	10337	BKG (cpm)	NA	BKG (cpm)		NA	BKG (cpm)		NA		
DC (dpm/100cm2)	NA	MDC (dpm/100cm2)	NA	MDC (dpm/100cm2)		NA	NA MDC (dpm/100cm2) NA Guideline (dpm/100cm ²)		NA		
uideline (dpm/100cm2)	NA	Guideline (dpm/100cm2)	NA	Guideline (dpm/100cm	²)	NA			NA		
ction Level (dpm/100cm2)	NA	Action Level (dpm/100cm2)	NA	Action Level (dpm/100	icm²)	NA	Action Level (dpm	/100cm ²)	NA		
and the second sec					Gross CPM	dpm/100cm ²	dpm/100cm ²	dpm/100cm ²	uR/hr	Notes	1
OCATION: Whittaker Project Tran				Location	Gamma	Direct Alpha	Smear Beta/G	Smear Alpha	Dose Rate		
JRPOSE: ORISE Investigational	Survey S1-SU3 Hilltop			1	12121	NA	NA .	NA	10	Area around sample location was scanne	ed with a
				2	10034	NA	NA	NA NA	10	model 2221 w/ 44-10 probe	
				4	10354	NA	NA	NA	10	1 Minute field bkg = 8754 cpm	
						and the second	and the second			low=9020 high=11400	
Market California and Market Statement	The subscription of the second	NO. C. MILINES TOPOLOGICS		MARY VIE	And A Car	CASE STON	and the spin the	Re Kill		avg=10210	



Pre Soil Removal



Post Soil Removal



ifveyor:	DaviD Stalnaker Print Dennis Davids		Man	Sign	nfer	-		10/29/2007 Date			
	Print		Odge	Sign		-		10/29/2007 Date			
Direct Frisk Beta/G	Samma	Direct Frisk Alpha		β	y Smear Results		αŝ	imear Results		Dose Rate	Results
iter Model #	NA	Meter Model #	NA	Meter Model #		L2929	Meter Model #		L2929	Meter Model #	19
eter Serial #	NA	Meter Serial #	NA	Meter Serial #		142652	Meter Serial #		142652	Meter Serial #	207505
obe Serial #	NA	Probe Serial #	NA	Probe Serial #		61489	Probe Serial #		61489	Cal Due	3/28/2008
al Due	NA	Cal Due	NA	Cal Due		4/3/2008	Cal Due		4/3/2008	Туре а. В т	Y
Ticlency (%)	NA	Efficiency (%)	NA	Efficiency (%)		48.00%	Efficiency (%)			BKG (µR/hr)	10
/pe α, β γ	NA	Туре а. ву	alpha	Туре а. Ву		beta/gamma				Guideline (µR/hr)	NA
ample Time (min)	NA	Sample Time (min)	NA	Sample Time (min)		1	Sample Time (min)		1	Action Level (µR/hr)	NA
ackground Time (min)	NA	Background Time (min)	NA	Background Time (mir		90	Background Time				
ackground Reading (counts)	NA	Background Reading (counts)	NA						90		
			1	Background Reading (counter	4221	Background Read	ing (counts)	31		
KG (cpm)	<u>NA</u>	BKG (cpm)	NA	BKG (cpm)		46.9	BKG (cpm)		0.3		
DC (dpm/100cm2)	NA	MDC (dpm/100cm2)	NA	MDC (dpm/100cm2)		107	MDC (dpm/100cm)		30		
uideline (dpm/100cm2)	NA	Guideline (dpm/100cm2)	NA	_ Guideline (dpm/100cm		NA	Guideline (dpm/10		NA		
ction Level (dpm/100cm2)	NA	Action Level (dpm/100cm2)	NA	Action Level (dpm/100	icm ²)	NA	Action Level (dpm	(100cm ²)	NA		
and the second s	-			And the second	dpm/100cm ²	dpm/100cm ²	dpm/100cm ²	dpm/100cm ²	uR/hr	Note	18
CATION: Whittaker Project Trans	ifer, PA			Location	Direct Beta/G	Direct Alpha	Smear Beta/G	Smear Alpha	Dose Rate		
CATION: Whittaker Project Trans URPOSE: Investagation Of Misc. I	sfer, PA Pipe Sect.#1			1	Direct Beta/G	Direct Alpha	Smear Beta/G	Smear Alpha <mdc< th=""><th>Dose Rate</th><th></th><th></th></mdc<>	Dose Rate		
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CATION: Whittaker Project Trans RPOSE: Investagation Of Misc. 3	Pipe Sect.#1			1 2 3 4 5 6 7 8 9 10 11 11 12 13 11 12 13 14 15 16 17 18 19 20 21 22 23	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>:РМ. :РМ. :РМ.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	:РМ. :РМ. :РМ.
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CATION: Whittaker Project Trans RPOSE: Investagation Of Misc. 3	Pipe Sect.#1			1 2 3 4 5 6 7 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>:РМ. :РМ. :РМ.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	:РМ. :РМ. :РМ.
GATION: Whittaker Project Trans RPOSE: Investagation Of Misc. 3	Pipe Sect.#1			1 2 3 4 5 5 8 7 7 8 9 10 11 11 12 13 14 15 15 16 17 18 19 20 21 22 23 24	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>:РМ. :РМ. :РМ.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	:РМ. :РМ. :РМ.
GATION: Whittaker Project Trans RPOSE: Investagation Of Misc. 3	Pipe Sect.#1			1 2 3 4 5 6 7 7 8 9 10 11 11 12 13 11 12 13 11 15 15 15 15 15 20 21 21 22 23 24 26 26	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>юм. рм. рм.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	юм. рм. рм.
GATION: Whittaker Project Trans RPOSE: Investagation Of Misc. 3	Pipe Sect.#1			1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 15 18 19 20 21 22 23 24 26 26 27	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>юм. рм. рм.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	юм. рм. рм.
GATION: Whittaker Project Trans RPOSE: Investagation Of Misc. 3	Pipe Seci.#1			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 29 30	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>:РМ. :РМ. :РМ.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	:РМ. :РМ. :РМ.
CATION: Whittaker Project Trans RPOSE: Investagation Of Misc. 3	Pipe Seci.#1			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 26 27 28 29 30 31	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>:РМ. :РМ. :РМ.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	:РМ. :РМ. :РМ.
GATION: Whittaker Project Trans RPOSE: Investagation Of Misc. 3	Pipe Seci.#1			1 2 3 4 5 8 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 29 30 31 32	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>:РМ. :РМ. :РМ.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	:РМ. :РМ. :РМ.
CATION: Whittaker Project Trans IRPOSE: Investagation Of Misc. 3	Pipe Seci.#1			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 26 27 28 29 30 31 32 33	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>:РМ. :РМ. :РМ.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	:РМ. :РМ. :РМ.
CATION: Whittaker Project Trans IRPOSE: Investagation Of Misc. 3	Pipe Seci.#1			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 26 26 27 28 29 30 31 32 33 34	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>:РМ. :РМ. :РМ.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	:РМ. :РМ. :РМ.
CATION: Whittaker Project Trans IRPOSE: Investagation Of Misc 3	Pipe Seci.#1			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 26 26 26 26 29 30 31 32 33 34 35	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>:РМ. :РМ. :РМ.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	:РМ. :РМ. :РМ.
CATION: Whittaker Project Trans IRPOSE: Investagation Of Misc 3	Pipe Seci.#1			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 29 30 31 32 33 34 36	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>:РМ. :РМ. :РМ.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	:РМ. :РМ. :РМ.
CATION: Whittaker Project Trans IRPOSE: Investagation Of Misc. 3	Pipe Seci.#1			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 26 26 26 27 28 29 30 31 32 33 34 36 37	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>:РМ. :РМ. :РМ.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	:РМ. :РМ. :РМ.
CATION: Whittaker Project Trans IRPOSE: Investagation Of Misc 3	Pipe Seci.#1			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 29 30 31 32 33 34 36	Direct Beta/G NA NA NA NA NA	Direct Alpha NA NA NA NA NA	Smear Beta/G <mdc <mdc <mdc <mdc 33.75</mdc </mdc </mdc </mdc 	Smear Alpha <mdc <mdc <mdc <mdc <mdc <mdc< td=""><td>Dose Rate 10.00 10.00 10.00 10.00 10.00</td><td>Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/</td><td>:РМ. :РМ. :РМ.</td></mdc<></mdc </mdc </mdc </mdc </mdc 	Dose Rate 10.00 10.00 10.00 10.00 10.00	Bkgd = 1 Min. 8996. C High reading=9700cpm C Low Readig =9000 C AVG=9350 Inst#176965 Cal Due3/27/	:РМ. :РМ. :РМ.