

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

Wade:

SMA-1018  
04007455

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" <[ktaylor@energysolutions.com](mailto:ktaylor@energysolutions.com)>

**Created By:** [ktaylor@energysolutions.com](mailto: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	Date & Time
MESSAGE	617	Wednesday, October 31, 2007 2:18 PM
TEXT.htm	5232	
WS-07-1067_0003 - S1 SU3 hole.pdf		599975
WS-07-1065 - pipe survey.pdf	646869	
Mime.822	1715081	

**Options**

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

**Concealed Subject:** No  
**Security:** Standard

**Junk Mail Handling Evaluation Results**

Message is eligible for Junk Mail handling

This message was not classified as Junk Mail

**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 Stalaker  
 Reviewer: Dennis Davids  
 Survey Meters: \_\_\_\_\_

Sign: [Signature]  
 Sign: [Signature]

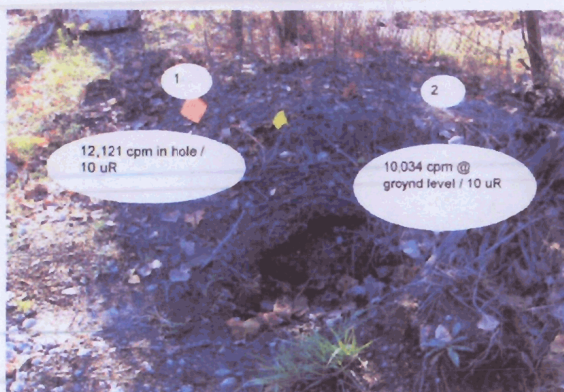
Date: 10/30/2007  
 Date: 10/30/2007

Direct Gamma Measurements		NA		NA		NA		Dose Rate Results	
Meter Model #	2221	Meter Model #	2221	Meter Model #	NA	Meter Model #	NA	Meter Model #	19
Meter Serial #	176955	Meter Serial #	176955	Meter Serial #	NA	Meter Serial #	NA	Meter Serial #	207505
Probe Serial #	207827	Probe Serial #	207827	Probe Serial #	NA	Probe Serial #	NA	Cal Due	3/28/2008
Cal Due	3/27/2008	Cal Due	3/27/2008	Cal Due	NA	Cal Due	NA	Type $\alpha, \beta, \gamma$	Y
Efficiency (%)	10%	Efficiency (%)	NA	Efficiency (%)	NA	Efficiency (%)	NA	BKG ( $\mu$ R/hr)	10
Type $\alpha, \beta, \gamma$	NA	Type $\alpha, \beta, \gamma$	NA	Type $\alpha, \beta, \gamma$	NA	Type $\alpha, \beta, \gamma$	NA	Guideline ( $\mu$ R/hr)	NA
Sample Time (min)	1	Sample Time (min)	1	Sample Time (min)	NA	Sample Time (min)	NA	Action Level ( $\mu$ R/hr)	NA
Background Time (min)	10	Background Time (min)	10	Background Time (min)	NA	Background Time (min)	NA		
Background Reading (counts)	103385	Background Reading (counts)	NA	Background Reading (counts)	NA	Background Reading (counts)	NA		
BKG (cpm)	10337	BKG (cpm)	NA	BKG (cpm)	NA	BKG (cpm)	NA		
MDC (dpm/100cm <sup>2</sup> )	NA	MDC (dpm/100cm <sup>2</sup> )	NA	MDC (dpm/100cm <sup>2</sup> )	NA	MDC (dpm/100cm <sup>2</sup> )	NA		
Guideline (dpm/100cm <sup>2</sup> )	NA	Guideline (dpm/100cm <sup>2</sup> )	NA	Guideline (dpm/100cm <sup>2</sup> )	NA	Guideline (dpm/100cm <sup>2</sup> )	NA		
Action Level (dpm/100cm <sup>2</sup> )	NA	Action Level (dpm/100cm <sup>2</sup> )	NA	Action Level (dpm/100cm <sup>2</sup> )	NA	Action Level (dpm/100cm <sup>2</sup> )	NA		

LOCATION: Whittaker Project Transfer, PA  
 PURPOSE: ORISE Investigational Survey S1-SU3 Hilltop

Location	Gross CPM Gamma	dpm/100cm <sup>2</sup> Direct Alpha	dpm/100cm <sup>2</sup> Smear Beta/G	dpm/100cm <sup>2</sup> Smear Alpha	$\mu$ R/hr Dose Rate
1	12121	NA	NA	NA	10
2	10034	NA	NA	NA	10
3	12347	NA	NA	NA	10
4	10354	NA	NA	NA	10

Notes  
 Area around sample location was scanned with a model 2221 w/ 44-10 probe  
 1 Minute field bkg = 8754 cpm  
 low=9020  
 high=11400  
 avg=10210



Pre Soil Removal



Post Soil Removal



Surveyor: David Staliner David Staliner 10/29/2007  
 Print Sign Date  
 Reviewer: Cennis Davids Cennis Davids 10/29/2007  
 Print Sign Date

Direct Frisk Beta/Gamma		Direct Frisk Alpha		$\beta$ y Smear Results		$\alpha$ Smear Results		Dose Rate Results	
Meter Model #	NA	Meter Model #	NA	Meter Model #	L2929	Meter Model #	L2929	Meter Model #	19
Meter Serial #	NA	Meter Serial #	NA	Meter Serial #	142652	Meter Serial #	142652	Meter Serial #	207505
Probe Serial #	NA	Probe Serial #	NA	Probe Serial #	61489	Probe Serial #	61489	Cal Due	3/28/2008
Cal Due	NA	Cal Due	NA	Cal Due	4/3/2008	Cal Due	4/3/2008	Type $\alpha, \beta, \gamma$	Y
Efficiency (%)	NA	Efficiency (%)	NA	Efficiency (%)	48.00%	Efficiency (%)	66.60%	BKG ( $\mu$ R/hr)	10
Type $\alpha, \beta, \gamma$	NA	Type $\alpha, \beta, \gamma$	alpha	Type $\alpha, \beta, \gamma$	beta/gamma	Type $\alpha, \beta, \gamma$	alpha	Guideline ( $\mu$ R/hr)	NA
Sample Time (min)	NA	Sample Time (min)	NA	Sample Time (min)	1	Sample Time (min)	1	Action Level ( $\mu$ R/hr)	NA
Background Time (min)	NA	Background Time (min)	NA	Background Time (min)	90	Background Time (min)	90		
Background Reading (counts)	NA	Background Reading (counts)	NA	Background Reading (counts)	4221	Background Reading (counts)	31		
BKG (cpm)	NA	BKG (cpm)	NA	BKG (cpm)	46.9	BKG (cpm)	0.3		
MDC (dpm/100cm <sup>2</sup> )	NA	MDC (dpm/100cm <sup>2</sup> )	NA	MDC (dpm/100cm <sup>2</sup> )	107	MDC (dpm/100cm <sup>2</sup> )	30		
Guideline (dpm/100cm <sup>2</sup> )	NA	Guideline (dpm/100cm <sup>2</sup> )	NA	Guideline (dpm/100cm <sup>2</sup> )	NA	Guideline (dpm/100cm <sup>2</sup> )	NA		
Action Level (dpm/100cm <sup>2</sup> )	NA	Action Level (dpm/100cm <sup>2</sup> )	NA	Action Level (dpm/100cm <sup>2</sup> )	NA	Action Level (dpm/100cm <sup>2</sup> )	NA		

LOCATION: Whittaker Project Transfer, PA  
 PURPOSE: Investigation Of Misc. Pipe Sect. #1



Location	dpm/100cm <sup>2</sup> Direct Beta/G	dpm/100cm <sup>2</sup> Direct Alpha	dpm/100cm <sup>2</sup> Smear Beta/G	dpm/100cm <sup>2</sup> Smear Alpha	$\mu$ R/hr Dose Rate
1	NA	NA	<MDC	<MDC	10.00
2	NA	NA	<MDC	<MDC	10.00
3	NA	NA	<MDC	<MDC	10.00
4	NA	NA	<MDC	<MDC	10.00
5	NA	NA	33.75	<MDC	10.00
6	NA	NA	<MDC	<MDC	10.00
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Area around pipe was scanned w/L-2221  
 Bkgd = 1 Min. 8996 CPM.  
 High reading=9700cpm CPM.  
 Low Readig =9000 CPM.  
 AVG=9350

Inst#176955 Cal Due 3/27/08  
 Probe #207527 Cal Due 3/27/08