SURVEY PACKAGE COVER SHEET

Survey Area: IG	Survey Unit: 707021A	Building/Structure: B707
Survey Unit/Area Description: Building 707, 1st floor, A module WALLS COLUMNS CEILING		

Building Information:

Survey Type: Reconnaissance Level Characterization Survey ☐ Pre-Demolition Survey ☑

Building Type: Type 1 ☐ Type 2 ☐ Type 3 ☑

Classification: Class 1 ☑ Class 2 ☐ Class 3 ☐ Unknown ☐

Contaminants of Concern: Plutonium ☑ Uranium ☐ Other ☐

Types of Surveys Required: Alpha ☑ Beta ☐ Gamma ☐

Justification for Classification: Area has been decontaminated and surveyed previously, it is not expected that contamination greater than the DCGLw will exist

Special Support Requirements: A heated instrument storage location will need to be placed in B707. Natural lighting may not illuminate some areas of survey unit - temperature and/or lighting set-up required for these areas as needed.

Special Safety Requirements:

Isolation Controls:

LEVEL 1 ☐ LEVEL 2 ☑ N/A ☐

No use, storage, or movement of radioactive material, with the exception of instrument check sources, is permitted in this survey unit.

Comments: Verification survey . Random sampling to cover 10% of the survey unit.

Labeling Requirements: Survey area surfaces shall be labeled per the attached survey map(s). All areas surveyed will be marked on the surveyed surface with indelible ink pen or equivilant.

Survey Package Implementation:

Radiological Engineer Printed Name		Radiological Engineer Signature	Date
Michael Wesselman	[redacted]	Michael Wesselman	12-2-2004
Jerry Mattson	[redacted]	J. Mattson	12-2-04

Comments: Source checks documented on the sheets attached to the investigations are operability checks performed with the source attached to each instrument. These checks are documented to demonstrate that cold (below freezing) conditions in B707 did not affect the instruments adversely during the course of work. Block # 8 surveyed twice to verify square meter average less than 100 dpm/100cm2

Survey Package Closure:

Radiological Engineer Printed Name		Radiological Engineer Signature	Date
Michael Wesselman	[redacted]	Michael Wesselman	12-6-2004
J. Mattson	[redacted]	J. Mattson	12-6-04
Terry Vaughn	[redacted]	Terry Vaughn	12/6/04
RE Manager or RSM Printed Name		RE Manager or RSM Signature	Date

(PRO-475-RSP-16.01, effective 05/22/01)

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SURVEY PACKAGE SURVEY/SAMPLING INSTRUCTION FORM

Survey Area: C	Survey Unit: 707021A	Building/Structure: B707
Survey Unit/Area Description: Building 707, 1st floor, A module [redacted]		

Minimum Survey/Sampling Measurement Requirements

Measurement	Number and Type		Comments	
Surface Activity Measurements	**TOTAL SURFACE CONTAMINATION** Any location identified by scanning that exceeds 300 dpm/100cm^2		60-second count time required	
RE Verification	Mathson	[redacted]	Matt	12/6/04
	Print Name	Employee #	Signature	Date
Surface Scanning	Scan 100% of each area marked in [redacted]p.		Perform scans in accordance with the attached Flow chart. Note: All locations are denoted on survey package survey map.	
RE Verification	Mathson	[redacted]	Matt	12/6/04
	Print Name	Employee #	Signature	Date
Media Samples	N/A			
RE Verification	N/A			
	Print Name	Employee #	Signature	Date

(PRO-475-RSP-16.01, effective 05/22/01)

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SURVEY PACKAGE SURVEY/SAMPLING INSTRUCTION FORM (cont)

Survey Area: C	Survey Unit: 707021A	Building/Structure: B707
Survey Unit/Area Description: Building 707, 1st floor, A module		

Survey/Sampling Instructions

- **NOTE:** Any changes to the Survey Package must be logged in the "Survey Package Correction/Change History Form."
- **RCT** – If not already completed, label the survey unit surfaces per the Survey Package Cover Sheet Grid Requirements Section and the attached survey map(s).
- **RCT** – If not already completed, transpose sample numbers from attached survey maps onto each corresponding survey location on the survey unit surfaces.

  Note: Work will be performed in cold conditions. Instrument operability may be affected. Increased operability checks are required.

- **RCT – Perform pre-use performance checks of all instrumentation to be utilized in conjunction with this survey plan. Perform operational checks with sources attached to the instrument frequently, at least once every survey location. If operational check performed during work is 20% less than check performed prior to work, return instrument to the heated storage location. Obtain new instrument from heated storage location, perform operational check and re-survey the square meter where previous instrument failed operational check before proceeding to next area.**
- **RCT** – A priori Minimum Detectable Concentrations (MDCs) listed in the RFETS Pre-Demolition Survey Plan (PDSP) may be used. If MDCs are calculated, use the formula indicated below in the sampling instructions. Verify that computed MDCs are less than 50% of the applicable $DCGL_W$. Record all information on the Instrument Data Sheet.

$$MDC = \frac{3 + 3.29\sqrt{R_b t_s (1 + \frac{t_s}{t_b})}}{E_t (A/100) t_s}$$

Where,

R_b = Background counting rate
t_s = sample counting time interval
t_b = background counting time
E_t = total efficiency
A = physical surface area of the detector (or area sampled for smears)

Note: Ensure that a 60 second count time is utilized when determining the MDC of the NE Electra.

- **RCT** – Local Area Background values should be obtained at each survey block either just before or just after obtaining the actual total surface activity. Only one LAB per survey block is required.

SURVEY PACKAGE SURVEY/SAMPLING INSTRUCTION FORM (cont)

Survey Area: C	Survey Unit: 707021A	Building/Structure: B707
Survey Unit/Area Description: Building 707, 1st floor, A module		

Survey/Sampling Instructions

- **RCT** - Obtain 100cm^2 total surface activity measurements (and local area background measurements) on areas that exceed 300 dpm/100cm^2. Document results on the " *Investigation Data Sheet*"

- **RCT** – perform ALPHA scans and ALPHA investigation scans. Complete the " Investigation Data Sheet" as appropriate.

- **RCT** - Perform post-use performance checks immediately following use, typically following the conclusion of measurements on the same day. The post-use performance checks SHALL fall within ± 20% of the established range to be considered acceptable.

- **RCT Supervisor** – Review the applicable forms in the survey package for completeness, complete the "Survey Signature Sheet," and forward the survey package to Characterization Radiological Engineering for final disposition.

SURVEY PACKAGE CORRECTION/CHANGE HISTORY FORM

Survey Area: C	Survey Unit: 707021A	Building/Structure: B707	
Change #	Description	Initiator/ Date	RE

(PRO-475-RSP-16.01, effective 05/22/01)

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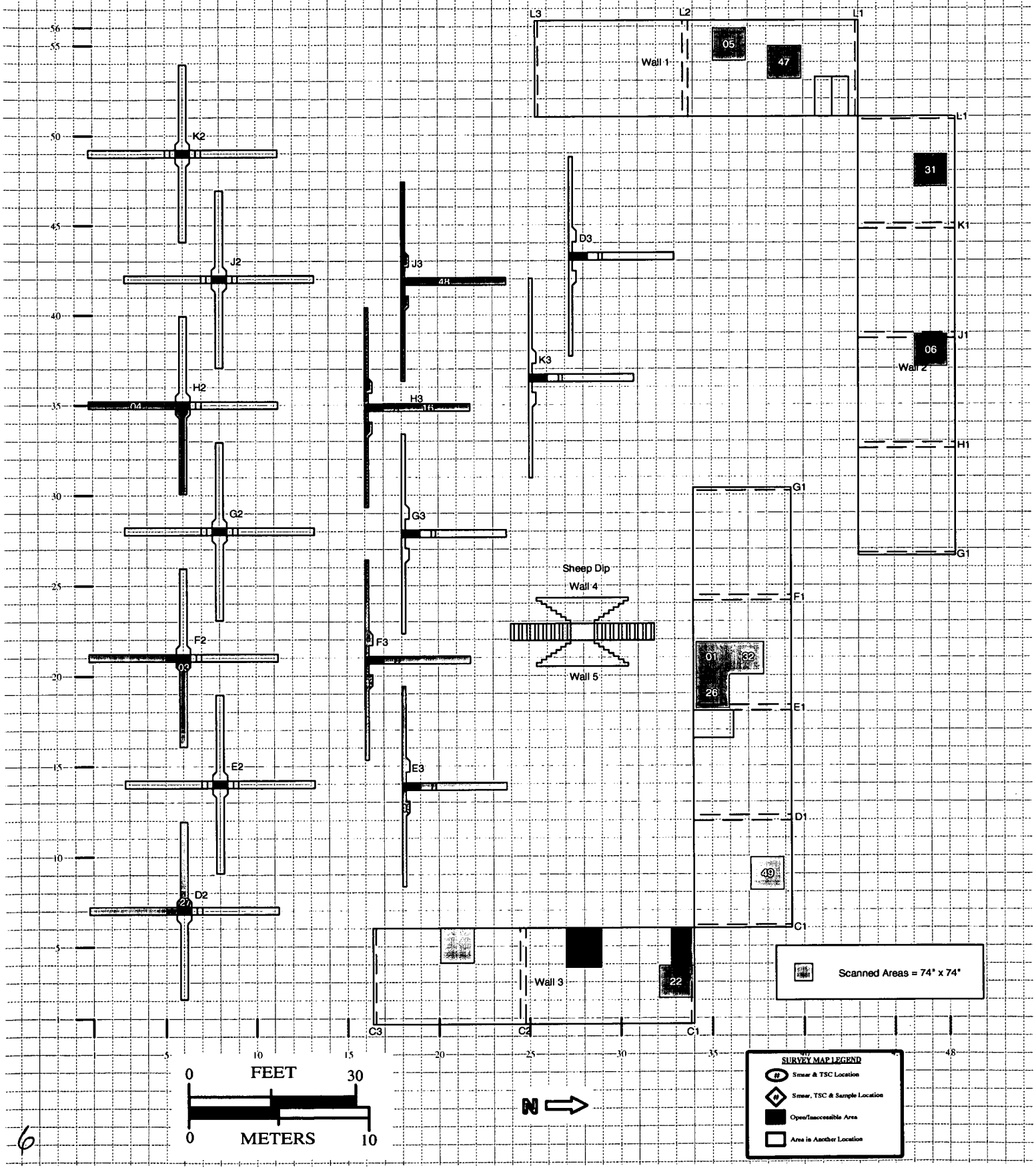
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 707 CLUSTER

Survey Area: C **Survey Unit: 707021A** **Classification: 2**
Building: 707
Survey Unit Description: First floor (A Module walls and ceiling)

Total Floor Area: 0 sq. m **Total Area: 2122 sq. m** **Block Size: 74" x 74"**

SURVEY UNIT 707021A - MAP 1 OF 2



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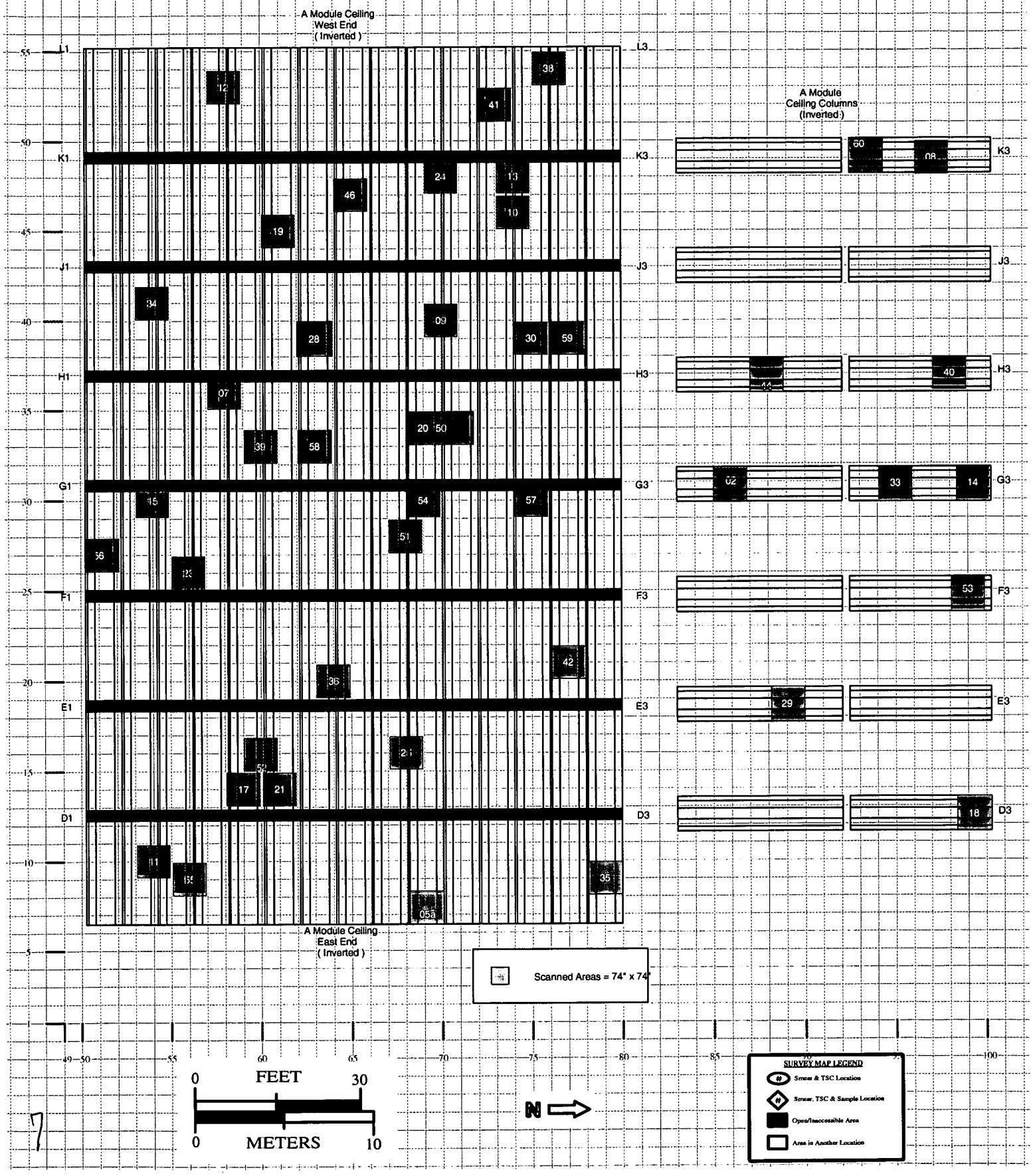
RADIOLOGICAL CLOSEOUT SURVEY FOR THE 707 CLUSTER

Survey Area: C **Survey Unit: 707021A** **Classification: 2**
Building: 707
Survey Unit Description: First floor (A Module walls and ceiling)

Total Floor Area: 0 sq. m **Total Area: 2122 sq. m** **Block Size: 74" x 74"**

SURVEY UNIT 707021A - MAP 2 OF 2



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Random Set
707021

Location	Page	X-Coordinate	Y-Coordinate	Location	Page	X-Coordinate	Y-Coordinate
# 1	1	35	21	NA	1	1	41
NA	1	19	26	#20	2	69	34
NA	2	68	6	NA	1	11	15
#2	2	86	30	NA	2	63	1
NA	1	11	52	#21	2	61	14
NA	2	72	5	NA	1	42	19
#3	1	6	21	#22	1	34	2
#4	1	1	35	NA	2	97	15
NA	1	48	20	NA	2	80	49
NA	2	97	17	#23	2	56	26
#5	1	36	55	#24	2	70	48
NA	1	17	24	NA	2	97	32
NA	2	94	1	NA	1	32	23
NA	2	55	6	NA	1	17	29
#6	1	47	38	NA	2	82	12
NA	1	5	45	NA	2	100	6
NA	2	92	41	#25	2	68	16
#7	2	58	36	#26	1	35	19
#8	2	97	49	NA	1	34	34
NA	2	98	6	NA	1	42	42
#9	2	70	40	NA	2	80	39
#10	2	74	46	#27	1	6	10
NA	1	21	40	NA	2	81	18
NA	2	77	4	NA	1	13	40
NA	1	15	49	NA	1	48	12
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NA	1	15	18	NA	2	86	17
NA	1	26	34	NA	1	14	53
NA	2	87	52	NA	2	86	41
NA	2	84	55	#29	2	89	18
NA	1	39	4	#30	2	75	39
NA	1	12	40	#31	1	47	48
#11	2	54	10	#32	1	36	21
#12	2	58	53	#33	2	94	30
NA	2	83	19	#34	2	54	41
NA	1	41	28	NA	1	13	10
#13	2	74	48	#35	2	79	9
#14	2	100	30	NA	1	11	33
NA	1	29	9	#36	2	64	20
#15	2	54	30	NA	1	30	38
NA	2	50	22	NA	2	89	5
#16	1	16	31	NA	1	42	16
#17	2	59	14	#5a	2	69	7
#18	2	100	13	NA	2	85	3
#19	2	61	45	#38	2	76	54

LEGEND:

C-NA= UNPAINTED CEILING
X-NA=> NUMBER OF SAMPLES REQUIRED

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Michael Wesselman
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Random Set
707021

Location	Page	X-Coordinate	Y-Coordinate	Location	Page	X-Coordinate	Y-Coordinate
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NA	2	80	11	#55	2	56	9
NA	2	96	14	NA	1	16	21
NA	2	56	3	#56	2	51	27
#41	2	73	52	#57	2	75	30
NA	2	84	43	NA	1	3	54
NA	2	58	31	NA	1	12	15
NA	2	49	29	NA	2	85	22
NA	1	3	33	NA	1	19	29
#42	2	77	21	NA	1	36	36
NA	1	21	46	NA	1	47	11
NA	2	92	4	NA	1	5	37
NA	2	50	44	NA	2	49	29
#43	1	16	20	NA	1	30	40
NA	1	44	55	#58	2	63	33
#44	2	88	36	NA	2	94	20
NA	1	9	46	NA	1	39	46
#45	1	18	11	NA	2	77	25
NA	1	21	7	NA	2	85	4
NA	1	26	13	#59	2	77	39
NA	2	89	39	#60	2	93	50
NA	1	27	34	#61	2	74	36
#46	2	65	47	NA	1	6	34
NA	1	43	35	NA	1	33	37
NA	1	45	10	#62	2	55	33
NA	2	52	49	NA	1	20	35
#47	1	39	54	NA	1	19	26
NA	2	52	5	NA	1	33	50
NA	2	53	43	NA	2	98	38
NA	1	32	38	NA	1	9	8
#48	1	21	42	#63	2	73	30
NA	2	82	35	NA	2	87	37
#49	1	38	9	NA	1	6	8
#50	2	70	34	NA	1	3	6
#51	2	68	28	#64	2	77	11
NA	1	18	41	NA	2	97	1
NA	1	39	3	NA	1	24	38
NA	2	74	31	NA	1	19	34
#52	2	60	15	NA	2	53	1
#53	2	99	25	#65	2	76	9
NA	1	41	44	#66	1	40	54
NA	1	32	42	NA	1	4	33
NA	1	1	16	#80	2	51	47

LEGEND:

C-NA= UNPAINTED CEILING
X-NA=> NUMBER OF SAMPLES REQUIRED

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Random Set
707021

Location	Page	X-Coordinate	Y-Coordinate	Location	Page	X-Coordinate	Y-Coordinate
NA	1	4	4	NA	1	36	3
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#67	2	91	30	NA	1	36	46
NA	1	5	15	#81	1	36	18
#68	1	8	11	NA	2	97	45
#69	2	54	48	#82	1	47	39
NA	2	54	43	#83	2	68	46
NA	1	21	52	#84	2	97	24
#70	2	72	10	NA	1	22	29
NA	2	94	1	#85	1	37	19
NA	2	84	8	NA	2	75	2
#71	1	20	28	NA	1	29	40
#72	2	75	34	NA	1	23	19
NA	1	44	20	NA	1	43	39
NA	1	39	51	NA	2	99	12
NA	1	12	9	#86	2	56	20
#73	1	38	19	NA	1	5	44
NA	2	50	29	NA	2	77	37
NA	1	24	43	#87	2	61	28
NA	2	81	49	NA	1	28	17
NA	1	43	50	#88	2	60	55
#74	2	58	27	NA	1	4	35
NA	1	40	26	#89	2	74	53
NA	1	20	18	NA	1	40	46
NA	1	10	22	NA	2	93	27
NA	1	27	43	NA	1	18	48
NA	2	95	51	NA	2	50	47
#75	1	24	2	NA	1	28	33
NA	1	32	8	NA	1	8	47
NA	1	5	20	#90	2	61	23
NA	1	22	22	NA	2	76	6
NA	1	19	17	#91	1	25	34
NA	1	46	56	NA	1	3	16
NA	1	46	26	#92	2	87	30
NA	1	23	20	NA	1	26	50
NA	2	85	53	NA	2	50	29
NA	1	34	31	#93	2	64	27
NA	1	30	40	#94	2	64	41
#76	1	46	38	NA	1	39	9
#77	2	57	42	NA	1	10	29
NA	2	61	14	#95	2	53	34
NA	1	37	49	NA	1	4	47
#78	2	62	26	NA	2	95	42
#79	2	66	34	NA	2	69	34
#96	1	4	49	NA	1	29	42
#97	2	62	33	NA	1	23	53

LEGEND:

C-NA= UNPAINTED CEILING
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Random Set
707021

Location	Page	X-Coordinate	Y-Coordinate	Location	Page	X-Coordinate	Y-Coordinate
NA	2	53	1	NA	1	41	38
NA	1	10	15	NA	1	34	43
NA	1	1	21	#112	2	74	26
#98	2	59	26	#113	2	63	18
NA	1	44	51	NA	1	5	20
#99	2	61	18	NA	1	18	21
NA	2	62	38	#114	1	30	5
#100	2	52	23	NA	1	40	7
NA	2	65	2	#115	2	76	12
#101	2	54	17	NA	2	98	35
#102	1	36	30	#116	1	47	31
NA	1	3	8	#117	2	58	23
NA	1	37	1	#118	2	58	16
#103	2	76	47	#119	2	69	40
NA	2	81	23	NA	1	46	4
NA	2	49	47	NA	1	17	25
#104	1	46	31	NA	2	75	1
#105	2	73	34	#120	2	78	27
NA	2	95	54	#110	2	63	48
NA	1	10	12		1	4	14
NA	1	12	4		1	31	42
NA	1	27	49		2	82	12
NA	2	81	47		2	72	5
#106	1	39	17		1	41	42
#107	2	67	50		1	36	25
NA	1	36	37		1	27	3
NA	2	93	51		2	83	31
#108	2	57	10		2	52	48
NA	2	99	7		2	57	21
#109	2	54	50		1	29	9
NA	2	86	1		2	81	19
NA	2	95	35		2	92	5
NA	1	42	37		1	47	14
NA	2	59	43		2	68	33
NA	2	50	36		2	75	2
NA	1	15	25		1	31	38
NA	2	71	25		2	53	13
NA	2	81	20		1	11	11
#37	1	21	5		2	51	48
#111	2	67	24		2	92	15
NA	1	33	39		1	19	33
NA	1	31	28		1	11	42
NA	1	48	39		2	96	29

LEGEND:

C-NA= UNPAINTED CEILING
X-NA=> NUMBER OF SAMPLES REQUIRED

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Survey Area:	C	Survey Unit:	707021A	Building/Structure:	B707

Survey Unit/Area Description: Building 707, 1st floor, A module

0

Scan Survey RCT and Instrument Sign In Sheet

[redacted]	Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm² (Yes or No)
	12/2/04	ELECTRA	3973	S		46	YES
	12/2/04	ELECTRA	3128	S		19	YES
	12/2/04	ELECTRA	4408	S		12	YES
	12/2/04	ELECTRA	1259	S		24	YES
	12-2-04	ELECTRA	3973	S		9	yes
	12-2-04	ELECTRA	1259	S		10	yes
	12-2-04	ELECTRA	4679	S		13	yes
	12-2-04	ELECTRA	4679	S		28	yes
	12-2-04	ELECTRA	3128	S		30	yes
	12-2-04	ELECTRA	4679	S		34	yes
	12/2/04	ELECTRA	4679	S		38	YES
	12/2/04	ELECTRA	4679	S		41	YES
	12/2/04	ELECTRA	3128	S		50	YES
	12/2/04	ELECTRA	3973	S		59	YES
	12/3/04	Electra	2166	S		51	yes
	12/3/04	Electra	2166	S		57	yes
	12/3/04	Electra	2166	S		54	yes
	12/3/04	Electra	2166	S		23	yes
	12/3/04	Electra	2166	S		56	yes
	12/3/04	Electra	1266	S		20	Yes
	12/3/04	Electra	1266	S		58	Yes
	12/3/04	Electra	1266	S		39	Yes
	12/3/04	Electra	1266	S		7	Yes
		[redacted]			[redacted]		

1 - Survey Type:
S = Scan only
I = Investigation

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Survey Area: C	Survey Unit: 707021A	Building/Structure: B707

Survey Unit/Area Description: Building 707, 1st floor, A module

Scan Survey RCT and Instrument Sign In Sheet

[redacted]	Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm^2 (Yes or No)
[redacted]	12-4-04	ELECTRA	4176	S	[redacted]	01	Yes
[redacted]	12-4-04	ELECTRA	4176	S	[redacted]	33	Yes
[redacted]	12-4-04	ELECTRA	4176	S	[redacted]	53	Yes
[redacted]	12-4-04	ELECTRA	4176	S	[redacted]	40	Yes
[redacted]	12-4-04	Electra	3128	S	[redacted]	8	Yes
[redacted]	12-4-04	Electra	3128	S	[redacted]	60	Yes
[redacted]	12/4/04	Electra	4408	S	[redacted]	37	Yes
[redacted]	12/4/04	Electra	4408	S	[redacted]	2	Yes
[redacted]	12/4/04	Electra	4408	S	[redacted]	44	Yes
[redacted]	12-4-04	ELECTRA	4408	S	[redacted]	29	Yes

[redacted]

[redacted]

S = Scan only
I = Investigation

Survey Area: C	Survey Unit: 707021A	Building/Structure: B707

Survey Unit/Area Description: Building 707, 1st floor, A module

Scan Survey RCT and Instrument Sign In Sheet

[redacted]

Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm² (Yes or No)
12-3-04	ELECTRA	3128	S		26	YES
12-3-04	ELECTRA	3128	S		~~26~~ 30 12-3	YES
12-3-04	ELECTRA	3128	S		35	YES
12-3-04	ELECTRA	1266	S		5	YES
12-3-04	ELECTRA	1266	S		42	YES
12-3-04	ELECTRA	1266	S		25	YES
12-3-04	ELECTRA	4408	S		17	YES
12-3-04	ELECTRA	4408	S		21	YES
12-3-04	ELECTRA	4408	S		36	YES
12-3-04	ELECTRA	4408	S		11	YES
12-3-04	ELECTRA	4408	S		52	YES
12-3-04	Electra	4408	S		31	Yes
12-3-04	Electra	4408	S		22	Yes
12-3-04	Electra	4408	S		55	Yes
12-3-04	ELECTRA	4408	S		~~690~~ 60 12/3/04	YES
12-3-04	ELECTRA	4408	S		49	YES
		N/A				

[redacted]

1 = Survey Type:
S = Scan only
I = Investigation

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Survey Area: C | Survey Unit: 707021A | Building/Structure: B707

Survey Unit/Area Description: Building 707, 1st floor, A module

0

Scan Survey RCT and Instrument Sign In Sheet

[redacted]	Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm² (Yes or No)
	12/3/04	Electra	1266	S		20	Yes
	12-3-04	ELECTRA	4176	S		14	yes
	12-3-04	ELECTRA	4176	S		18	yes
	12-3-04	ELECTRA	4176	S		53	NO
	12-3-04	Electra	1269	S		47	Yes
	12/4/04	ELECTRA	4408	S		5,16,48	yes
	12/4/04	ElectRA	3128	S		3,4,27,43,45	yes
	12/3/04	Electra	2166	S		15	NO

N/A

[redacted]

1 - Survey Type:
S = Scan only
I = Investigation

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Survey Area: C	Survey Unit: 707021A	Building/Structure: B707
Survey Unit/Area Description: Building 707, 1st floor, A module		

Scan Survey RCT and Instrument Sign In Sheet

[redacted]	Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm² (Yes or No)
[redacted]	2/5/04	ELEC	3973	I	[redacted]	23	YES
[redacted]							

[1] Survey Type:
S = Scan only
I = Investigation

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Survey Area: C	Survey Unit: 707021A	Building/Structure: B707
Survey Unit/Area Description: Building 707, 1st floor, A module		0

Scan Survey RCT and Instrument Sign In Sheet

[redacted]		Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm² (Yes or No)
[redacted]		12/5/04	ELEC	3973	I	[redacted]	26	Yes

NA

[redacted]

1 - Survey Type:
S = Scan only
I = Investigation

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Survey Area: C	Survey Unit: 707021A 707021	Building/Structure: B707
Survey Unit/Area Description: Building 707 1st floor A module		

Scan Survey RCT and Instrument Sign In Sheet

[redacted]	Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm² (Yes or No)
	12/05/04	ELECTRA	4398	I		37	YES
							NA
[redacted]							

1 - Survey Type:
S = Scan only
I = Investigation

Survey Area: C Survey Unit: 70 707021A Building/Structure: B707

Survey Unit/Area Description: Building 707 1st floor A module

Scan Survey RCT and Instrument Sign In Sheet

[redacted]	Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm² (Yes or No)
	12-6-04	Electra	1266	I		8	Yes

[redacted]

1 - Survey Type:
S = Scan only
I = Investigation

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 1266 CAL. DUE DATE: 01/28/05 INSTRUMENT EFFICIENCY: Alpha 21.9% / Beta N/A

PROBE S/N: 1026 BLDG. 70 (Range, 2713 / 3671)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	[redacted]
0700 12/5/04	[redacted]	yes	yes	Alpha	2.0	3091	N/A	[redacted]	[redacted]
				Beta	N/A	N/A			
1200 12/5/04		yes	yes	Alpha	7.0	3135	N/A		
				Beta	N/A	N/A			
0800 12/6/04		yes	yes	Alpha	3.0	3249	N/A		
				Beta	N/A	N/A			
1230 12/6/04		yes	yes	Alpha	2.0	3077	N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			

COPY

 * Guidance for use of this form is located on the back of the form

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 60-0145 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14528 Range (cpm) ± 15%: 2713 - 3192 - 3671

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:		[redacted]	
Name (print)	Signature		Date 12/6/04 12/5/04

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01 04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 4176 CAL. DUE DATE: 1-16-05 INSTRUMENT EFFICIENCY: 22.32 / N/A

PROBE S/N: 2106 BLDG. 707 (Range, 2763 / 3739)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
1630 12-3-04		yes	yes	Alpha	4.0	3241			
				Beta	N/A	N/A	N/A		
1630 12-3-04		yes	yes	Alpha	7-0	3235			
				Beta	N/A	N/A	N/A		
N/A				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		N/A

 * Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 680145 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14578 Range (cpm) ± 15%: 2763 / 3739

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:			
Name (print)	Signature	[redacted]	Date 12/4/04

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 4408 CAL. DUE DATE 4/18/05 INSTRUMENT EFFICIENCY: .219 / N/A

PROBE S/N: 2154 BLDG. 70 (Range, 2284 / 3091)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	[redacted]
1400 12-2-04		YES	YES	Alpha	5.0	2724	N/A		
				Beta	N/A	N/A			
1930 12/2/04		YES	YES	Alpha	6.0	2731	N/A		
				Beta	N/A	N/A			
0230 12-3-04		YES	YES	Alpha	3.0	2793	N/A		
				Beta	N/A	N/A			
1500 12-3-04		Y	Y	Alpha	8.0	2695	N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			

 * Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 680138 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 12275 Range (cpm) ± 15%: 2284, 3091

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:			
Name (print)	Signature	E[redacted]	Date 12/1/07

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 1269 CAL. DUE DATE: 3/2/05 INSTRUMENT EFFICIENCY: 22.2% / N/A

PROBE S/N: 1037 BLDG. 70 (Range, 2750 / 3721)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service [redacted]

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
1630 12/3/04		Yes	Yes	Alpha	2.0	3150	N/A		
				Beta	N/A	N/A			
2300 12/3/04		yes	yes	Alpha	3.0	3161	N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			

N/A

N/A

 * Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2707 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14,578 Range (cpm) ± 15%: 2750 – 3721

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by:
RS Supervision: [redacted] 12/4/07
Name (print) Signature Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 3128 CAL. DUE DATE: 9/25/05 INSTRUMENT EFFICIENCY: Alpha 1219 / Beta N/A

PROBE S/N: 1990 BLDG. 70 (Range, 2284 / 3091)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	[redacted]
1400 12-2-04		YES	YES	Alpha	7.0	2672			
				Beta	N/A	N/A	N/A		
2230 12/2/04		Y	Y	Alpha	4.0	2,865			
				Beta	N/A	N/A	N/A		
0730 12-3-04		Y	Y	Alpha	2.0	2719			
				Beta	N/A	N/A	N/A		
1455 12-3-04		YES	YES	Alpha	4.0	2792			
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS2692 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 1225 Range (cpm) ± 15%: 2284, 2688, 3091

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:			
Name (print)	Signature	[redacted]	Date 12/4/0

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 3128 CAL. DUE DATE 9/25/05 INSTRUMENT EFFICIENCY: 1219 / N/A

PROBE S/N: 1990 BLDG. 70 (Range, 2284/3091)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instrumen[redacted] repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]
1400 12-2-04		YES	YES	Alpha	7.0	2672		
				Beta	N/A	N/A	N/A	
2230 12/2/04		Y	Y	Alpha	4.0	2,865		
				Beta	N/A	N/A	N/A	
0730 12-3-04		Y	Y	Alpha	2.0	2719		
				Beta	N/A	N/A	N/A	
1455 12-3-04		YES	YES	Alpha	4.0	2792		
				Beta	N/A	N/A	N/A	
2300 12/3/04		Yes	Yes	Alpha	2.0	2607		
				Beta	N/A	N/A	N/A	
0500 12/4/04		Yes	Yes	Alpha	4.0	2641		
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	

N/A

 * Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS2692 680138 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 12275 Range (cpm) ± 15%: 2284, 2688, 3091

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:		[redacted]	
Name (print)	Signature		Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 12616 CAL. DUE DATE: 1/23/05 INSTRUMENT EFFICIENCY: 21.9% / N/A

PROBE S/N: 1026 BLDG. 70 (Range, 2713 / 3671)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	[redacted]
06:00 12/4/04		Yes	Yes	Alpha	7.0	3161	N/A		
				Beta	N/A	N/A			
14:00 12/4/04		Yes	Yes	Alpha	8.0	3172	N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			

N/A

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2707 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14,578 Range (cpm) ± 15%: 2713 - 3671

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:		[redacted]	
Name (print)	Signature		Date 12/5/04

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 4408 CAL. DUE DATE: 4/18/05 INSTRUMENT EFFICIENCY: .219 / N/A

PROBE S/N: 2154 BLDG. 70 (Range, 2284 / 3091)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
1400 12-2-04		YES	YES	Alpha	5.0	2724			
				Beta	N/A	N/A	N/A		
1930 12/2/04		YES	YES	~~Alpha~~	6.0	2731			
				Beta	N/A	N/A	N/A		
0730 12-3-04		YES	YES	Alpha	3.0	2793			
				Beta	N/A	N/A	N/A		
1500 12-3-04		Y	Y	Alpha	8.0	2695			
				Beta	N/A	N/A	N/A		
0000 12/4/04		Yes	Yes	Alpha	8.0	2657			
				Beta	N/A	N/A	N/A		
0500 12/4/04		Yes	Yes	Alpha	8.0	2818			
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				~~Alpha~~					
				Beta	~~N/A~~	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

NA

 * Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 680138 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 12275 Range (cpm) ± 15%: 2284, 3091

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by RS Supervision:		[redacted]	12/4/04
Name (print)	Signature		Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 1266 CAL. DUE DATE: 01-28-05 INSTRUMENT EFFICIENCY: Alpha 21.9% / Beta N/A

PROBE S/N: 1026 BLDG. 707 (Range, 2285 / 3091)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
0740 12-3-04		YES	YES	Alpha	2.0	2761	N/A		
				Beta	N/A	N/A			
1455 12-3-04		YES	YES	Alpha	5.0	2620	N/A		
				Beta	N/A	N/A			
2300 12/3/04		yes	yes	Alpha	1.0	2729	N/A		
				Beta	N/A	N/A			
0500 12/3/04		yes	yes	Alpha	4.0	2746	N/A		
				Beta	N/A	N/A			
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

N/A

N/A

 * Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2692 680138 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 12,275 Range (cpm) ± 15%: 2285 - 3091

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by:
RS Supervision: Sutton, [redacted], 12/4/02
Name (print) Signature Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 1269 CAL. DUE DATE: 3/2/05 INSTRUMENT EFFICIENCY: 22.2% / N/A

PROBE S/N: 1037 BLDG. 70 (Range, 2750 / 3721)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	[redacted]
1630 12/3/04		Yes	Yes	Alpha	2.0	3150	N/A		
				Beta	N/A	N/A			
2300 12/3/04		Yes	Yes	Alpha	3.0	3161	N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			

N/A

 * Guidance for use of this form is located on the back of the form

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2707 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14,578 Range (cpm) ± 15%: 2750 – 3721

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:			
Name (print)	Signature	[redacted]	Date 12/4/02

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 1266 CAL. DUE DATE: 01-28-05 INSTRUMENT EFFICIENCY: Alpha 21.9% / Beta N/A

PROBE S/N: 1026 BLDG. 707 (Range, 2285 / 3091)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
0740 12-3-04		YES	YES	Alpha	2.0	2761			
				Beta	N/A	N/A	N/A		
1455 12-3-04		YES	YES	Alpha	5.0	2620			
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

 * Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2692 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 12,275 Range (cpm) ± 15%: 2285 - 3091

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:		[redacted]	
Name (print)	Signature		Date 12/4/02

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 3128 CAL. DUE DATE: 9/25/05 INSTRUMENT EFFICIENCY: Alpha 1219 / Beta N/A

PROBE S/N: 1990 BLDG. 70 (Range, 2284/3091)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]
1400 12-2-04		YES	YES	Alpha	7.0	2672		
				Beta	N/A	N/A	N/A	
2230 12/2/04		Y	Y	Alpha	4.0	2,865		
				Beta	N/A	N/A	N/A	
0730 12-3-04		Y	Y	Alpha	2.0	2719		
				Beta	N/A	N/A	N/A	
1455 12-3-04		YES	YES	Alpha	4.0	2792		
				Beta	N/A	N/A	N/A	
2300 12/3/04		Yes	Yes	Alpha	2.0	2607		
				Beta	N/A	N/A	N/A	
0500 12/4/04		Yes	Yes	Alpha	4.0	2641		
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	
				Alpha				
				Beta	N/A	N/A	N/A	

N/A

N/A

 * Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS2692 680138 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 1225 Range (cpm) ± 15%: 2284, 2688, 3091

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by RS Supervision:			
Name (print)	Signature	[redacted]	Date 12/4/07

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm.

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 4408 CAL. DUE DATE: 4/18/05 INSTRUMENT EFFICIENCY: .219 / N/A

PROBE S/N: 2154 BLDG. 70 (Range, 2284 / 3091)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	[redacted]
1400 12-2-04		YES	YES	Alpha	5.0	2724	N/A		
				Beta	N/A	N/A			
1930 12/2/04		YES	YES	Alpha	6.0	2731	N/A		
				Beta	N/A	N/A			
0730 12-3-04		YES	YES	Alpha	3.0	2793	N/A		
				Beta	N/A	N/A			
1500 12-3-04		Y	Y	Alpha	8.0	2695	N/A		
				Beta	N/A	N/A			
0000 12/4/04		Yes	Yes	Alpha	8.0	2657	N/A		
				Beta	N/A	N/A			
0500 12/4/04		Yes	Yes	Alpha	8.0	2818	N/A		
				Beta	N/A	N/A			
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

N/A

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 680138 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 12275 Range (cpm) ± 15%: 2284, 3091

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:		[redacted]	
Name (print)	Signature		Date 12/4/02

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 1266 CAL. DUE DATE: 01-28-05 INSTRUMENT EFFICIENCY: Alpha 21.9% / Beta N/A

PROBE S/N: 1026 BLDG. 707 (Range, 2285 / 3091)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
0740 12-3-04		YES	YES	Alpha	2.0	2761	N/A		
				Beta	N/A	N/A			
1455 12-3-04		YES	YES	Alpha	5.0	2620	N/A		
				Beta	N/A	N/A			
2300 12/31/04		yes	yes	Alpha	1.0	2729	N/A		
				Beta	N/A	N/A			
0500 12/31/04		yes	yes	Alpha	4.0	2746	N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			

N/A

N/A

 * Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2692 680138 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 12,275 Range (cpm) ± 15%: 2285 - 3091

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by RS Supervision:			
Name (print)	Signature	[redacted]	Date 12/4/07

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 1269 CAL. DUE DATE: 3/2/05 INSTRUMENT EFFICIENCY: 22.2 % / N/A

PROBE S/N: 1037 BLDG. 70 (Range, 2750 / 3721)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
1630 12/3/04		Yes	Yes	Alpha	2.0	3150			
				Beta	N/A	N/A	N/A		
2300 12/3/04		yes	yes	Alpha	3.0	3161			
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

N/A

 * Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2707 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14,578 Range (cpm) ± 15%: 2750 — 3721

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:			
Name (print)	Signature	[redacted]	Date 12/4/04

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 4398 CAL. DUE DATE: 01/29/05 INSTRUMENT EFFICIENCY: Alpha 21.0% / Beta N/A

PROBE S/N: 2185 BLDG. 70 (Range, 2602 / 3520)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
0700 12/5/04		yes	yes	Alpha	7.0	3053	N/A		
				Beta	N/A	N/A			
1600 12/5/04		Y	Y	Alpha	6.0	2949	N/A		
				Beta	N/A	N/A			
2000 12/5/04		Y	Y	Alpha	6.0	3017	N/A		
				Beta	N/A	N/A			
NA				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			NA

 * Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 680145 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14578 Range (cpm) ± 15%: 2602-3061-3520

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:		[redacted]	
Name (print)	Signature		Date 12/5/04

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 3973 CAL. DUE DATE: 12/22/04 INSTRUMENT EFFICIENCY: .214 / N/A

PROBE S/N: 2093 BLDG. 70 (Range, 2232 / 3019)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
1400 12-2-04	[redacted]	YES	YES	Alpha	2.0	2658	N/A		
				Beta	N/A	N/A			
2230 12/2/04		Y	Y	Alpha	1.0	2,638	N/A		
				Beta	N/A	N/A			
0730 12-3-04		Y	Y	Alpha	3.0	2742	N/A		
				Beta	N/A	N/A			
0730 12-5-04		Yes	Yes	Alpha	5.0	2670	N/A		
				Beta	N/A	N/A			
1040 12-5-04		YES	YES	Alpha	3.0	2614	N/A		
				Beta	N/A	N/A			
2000 12-5-04		YES	YES	Alpha	4.0	2650	N/A		
				Beta	N/A	N/A			
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2692 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 12275 Range (cpm) ± 15%: 2232, 2626, 3019

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:		[redacted]	
Name (print)	Signature		Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01-04

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 4398 CAL. DUE DATE: 01/29/05 INSTRUMENT EFFICIENCY: Alpha 21.0% / Beta N/A

PROBE S/N: 2185 BLDG. 70 (Range, 2602 / 3520)

COPY

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
0730 12/5/04	[redacted]	yes	yes	Alpha	7.0	3053	N/A	[redacted]	
				Beta	N/A	N/A			
1600 12/5/04		Y	Y	Alpha	6.0	2949	N/A		
				Beta	N/A	N/A			
2000 12/5/04		Y	Y	Alpha	6.0	3017	N/A		
				Beta	N/A	N/A			
NA				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		NA
				Beta	N/A	N/A			

* Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 680145 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14578 Range (cpm) ± 15%: 2602-3061-3520

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:			
Name (print)	Signature	[redacted]	Date 12/5/04

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 3973 CAL. DUE DATE: 12/22/04 INSTRUMENT EFFICIENCY: .214 / N/A

PROBE S/N: 2093 BLDG. 70 (Range, 2232 / 3019)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
1400 12-2-04		YES	YES	Alpha	2.0	2658	N/A		
				Beta	N/A	N/A			
2230 12/2/04		Y	Y	Alpha	1.0	2,638	N/A		
				Beta	N/A	N/A			
0730 12-3-04		Y	Y	Alpha	3.0	2742	N/A		
				Beta	N/A	N/A			
0730 12-5-04		Yes	Yes	Alpha	5.0	2670	N/A		
				Beta	N/A	N/A			
1040 12-5-04		YES	YES	Alpha	3.0	2614	N/A		
				Beta	N/A	N/A			
2006 12-5-0		YES	YES	Alpha	4.0	2650	N/A		
				Beta	N/A	N/A			
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

N/A

 * Guidance for use of this form is located on the back of the form

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2692 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 12275 Range (cpm) ± 15%: 2232, 2626, 3019

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:		[redacted]	
Name (print)	Signature		Date 02/5/04

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 3973 CAL. DUE DATE: 12/22/04 INSTRUMENT EFFICIENCY: .214 / N/A

PROBE S/N: 2093 BLDG. 70 (Range, 2232 / 3019)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
1400 12-2-04	[redacted]	YES	YES	Alpha	2.0	2658	N/A	[redacted]	
				Beta	N/A	N/A			
2230 12/2/04	[redacted]	Y	Y	Alpha	1.0	2,638	N/A	[redacted]	
				Beta	N/A	N/A			
0730 12-3-04	[redacted]	Y	Y	Alpha	3.0	2742	N/A	[redacted]	
				Beta	N/A	N/A			
0730 12-5-04	[redacted]	Yes	Yes	Alpha	5.0	2670	N/A	[redacted]	
				Beta	N/A	N/A			
1040 12-5-04	[redacted]	YES	YES	Alpha	3.0	2614	N/A	[redacted]	
				Beta	N/A	N/A			
2000 12-5-04	[redacted]	YES	YES	Alpha	4.0	2650	N/A	[redacted]	
				Beta	N/A	N/A			
0800 12-6-04	[redacted]	Yes	Yes	Alpha	1.0	2746	N/A	[redacted]	
				Beta	N/A	N/A			
1230 12-6-04	[redacted]	Yes	Yes	Alpha	1.0	2342	N/A	[redacted]	
				Beta	N/A	N/A			
	[redacted]			Alpha				[redacted]	
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

COPY

 * Guidance for use of this form is located on the back of the form

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2692 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 12225 Range (cpm) ± 15%: 2232, 2626, 3019

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:			
W Scott		[redacted]	12/6/04
Name (print)	Signature		Date

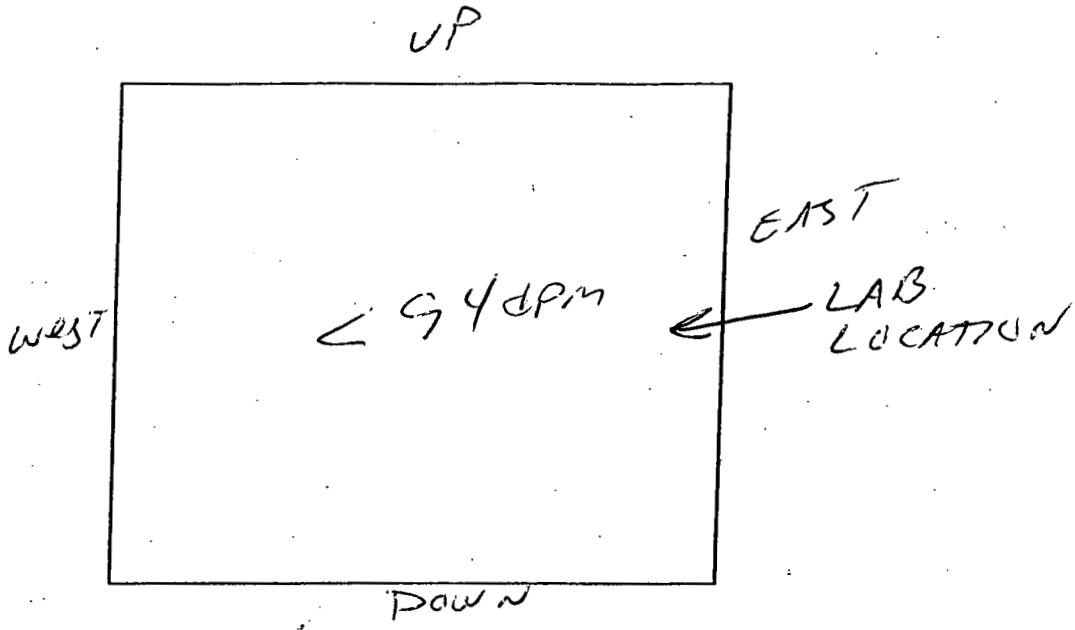
$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

Survey unit 707021A
Grid # 01



Pre Source check 314 clm
Post Source check 364 clm
Post Source check +or- 20% Yes X No —

Name [redacted]
Rct # [redacted]
Date 12-4-04

Inst Electra
S/N 4398
Cal Date Due 1-29-05
Eff 21.0%

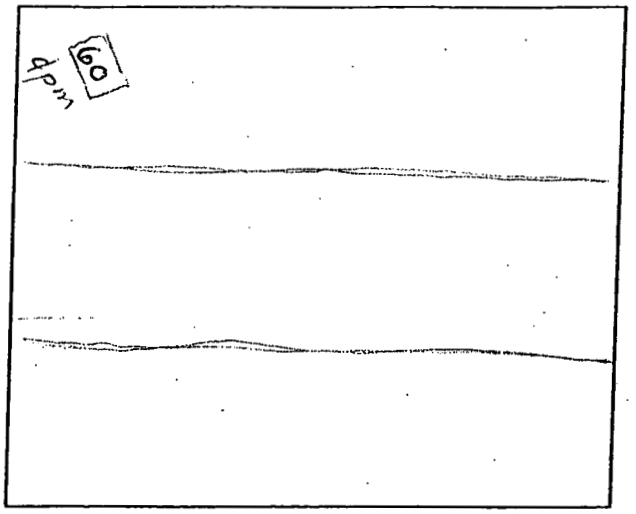
LAB 8.0cpm 40 D/m
LAB Taken in center of Grid

Reviewed by W Sutton [redacted] 12/4/04

60

Survey unit 707021A
Grid # 02

BEAM



East side

Bottom

West Side

Pre Source check 411 clm
Post Source check 420 clm
Post Source check +or- 20% Yes ✓ No —

Name [redacted]
Rct # [redacted]
Date 12/4/2004

Inst Electra
S/N 4408
Cal Date Due 4/18/05
Eff 21.9%
LAB 8.0 cpm 40 Dlm
LAB Taken in Center of Grid
Reviewed by W Sutton [redacted] 12/4/04

61

Survey Area: [illegible]	Survey Unit: [illegible]	Building: 707
Survey Unit Area Description: Building 707 1st floor, A module		

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X-Y coord)	Survey #	RCT ID #	Direct (cpm)	LAB (cpm)	TSA (cpm)	Net Count	Activity (pCi/g)	Gross (cpm)	Comments	Date
02	1	1	1	8.0	12					12/4/04

RCT ID #					Date
1	[redacted]				12/4/04
2					
3					N/A
4					

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	Electra 4408	4/18/05	21.9%	
2				
3	N/A	N/A	N/A	N/A
4				

Comments

W Sutton
Supervisor (print)

Supervisor (signature)

[redacted]

12/4/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

62

Survey unit 707021 A
Grid # 03

<194 D/m

Pre Source check 416 c/m
Post Source check 442 c/m
Post Source check +or- 20% Yes ✓ No —

NAME [redacted]
Rct #
Date 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9%
LAB 6.0 ~~B~~/m 12/4/04 30 D/m
LAB TAKen in center of Grid
Reviewed by W Sutter [redacted] 12/4/04

63

Survey unit 707021A
Grid # 04

<94 D/m

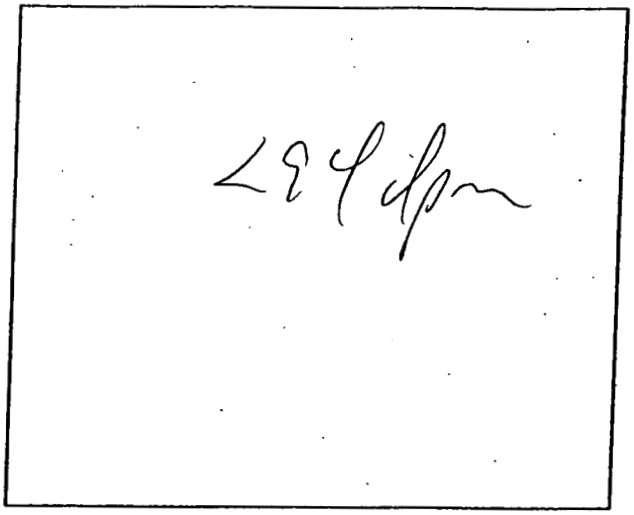
Pre Source check 416 c/m
Post Source check 433 c/m
Post Source check +or- 20% Yes ✓ No

NAME [redacted]
Rct # [redacted]
Date 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4/25/05
Eff 21.9%
LAB 3.0 c/m
LAB taken in center of Grid
Reviewed by Sutter [redacted] 12/4/04

64

Survey unit 707021A
Grid # 05 ~~A~~ m.m



Pre Source check 387 clm
Post Source check 389 clm
Post Source check +or- 20% Yes X No —

NAME [redacted]
Rct #
Date 12/4/04

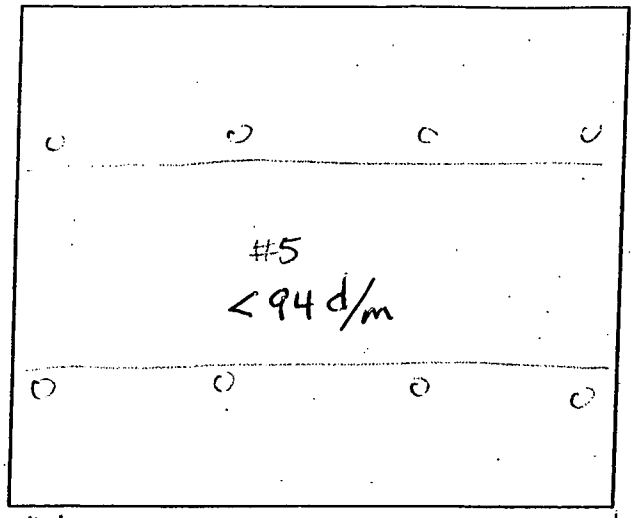
Inst Electra
S/N 4408
Cal Date Due 04/18/05
Eff 21.9%
LAB 7.0 cpm
LAB taken in center of Grid

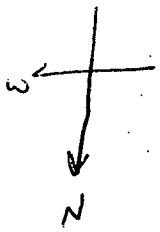
Supervisor NAME Sutton ~~RGM~~ QC 12/5/04 Signature [redacted]

65 Date 12/4/04

Survey unit 7070 21A
Grid # 05A

INVERTED





INST. #1

Pre Source check 383 c/m
Post Source check 384 c/m
Post Source check +or- 20% Yes ✓ No —

Name [redacted]
Rct # [redacted]
Date 12-3-04

Inst Electra #1
S/N 1266
Cal Date Due 1-28-05
Eff 21.9%

LAB 10.0 c/m = 50 d/m
LAB Taken in center of grid

INST. #2

PRE 437 c/m
POST 478 c/m
±20% YES

Name [redacted]
Rct # [redacted]
Date [redacted]

ELECTRA #2
Inst # 3128
Cal Due 4-25-05
Eff 21.9%

LAB 7.0 c/m = 35 d/m

Supervisor Name Sutt
QC ~~RSM~~ 12/5/04 Signature [redacted]
Date 12/4/04

66

Survey unit 707021A

Grid # 06 ~~70 60~~ 12/4/04 DL

<94

Pre Source check 405 clm

Post Source check 378 clm

Post Source check +or- 20% Yes ✓ No

Name [redacted]

Rct # [redacted]

Date 12-3-04

Inst Electra

S/N 4408

Cal Date Due 4-18-05

Eff 21.98

LAB 14cpm 70cpm

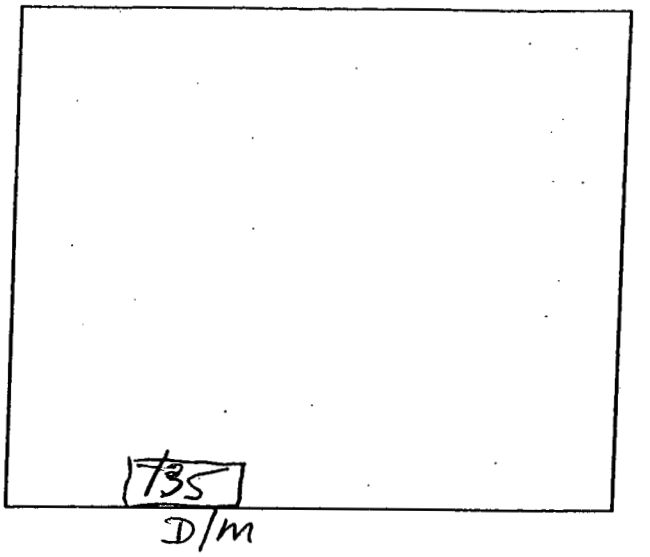
Lab taken in center of Grid

Supervisor Name W Sutt ~~RSM~~ or 12/5/04 Signature [redacted]

67 Date 12/4/04

Survey unit 707021A

Grid # D7



Pre Source check 375 c/m

Post Source check 375 c/m

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

Rct # [redacted]

Date 12/3/04

Inst Electra

S/N 1266

Cal Date Due 1/28/05

Eff 21.9%

LAB 4.0 c/m 20 D/m

LAB Taken in center of Grid

68 Reviewed By: J. Crider / [signature] [redacted] 12/3/04

Survey Area:	C	Survey Unit:	707021 A	Building:	707

Survey Unit/Area Description: Building 707 1st floor - A module

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X,Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
07	1	1	1	40	27					12/3/04

RCT ID #		Date
1	[redacted]	12/3/04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	1266	11/28/05	21.9%	
2				
3				
4				

Comments

W Sutt
Supervisor (print)

Supervisor (signature) [redacted]

12/4/04
Date

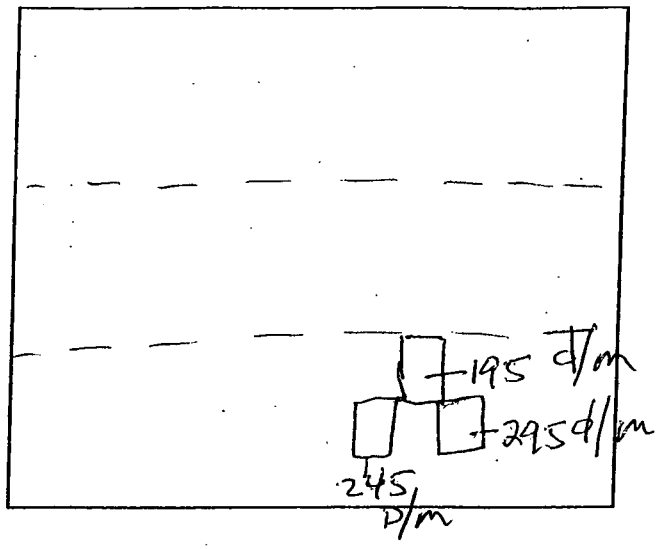
(PRO-475-RSP-16.01, effective 05/22/01)

69

Survey unit 707021A

Grid # 08

← South



295 DPM
LESS BACKGROUND
OF 30 DPM =
265 NET DPM
q. Cuder
12/5/04

Pre Source check 430 cpm

Post Source check 440 cpm

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

Rct # [redacted]

Date 12/04/04

Inst Electra

S/N 3128

Cal Date Due 04/25/05

Eff 21.9%

LAB 6.0 d/m / 30 d/m

LAB taken in center of Grid

Supervisor Name W Sutton ~~RSM~~ Qc 12/5/04 Signature [signature] E [redacted]

Date 12/4/04

70

Survey Area:	C	Survey Unit:	707020-21 A	Building:	707

Survey Unit/Area Description: Building 707, 1st floor, B module

Investigation Documentation Sheet

Grid Location (X,Y Coord)	Survey #	RCT ID #	Inst ID #	TSA Measurements LAB (cpm)	TSA Measurements TSA (cpm)	RSA Measurements Net (cpm)	RSA Measurements Inst Bkg (cpm)	RSA Measurements Gross (cpm)	Comments	Date
08	1	1	1	6.0	39					12/4/04
08	2	1	1	6.0	49					12/4/04
08	3	1	1	6.0	59					12/4/04

RCT ID #		Date
1	[redacted]	12/4/04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	Electra 3128	4/25/05	21.9%	
2				
3				
4				

Comments

W Sutter
Supervisor (print)

Supervisor (signature)

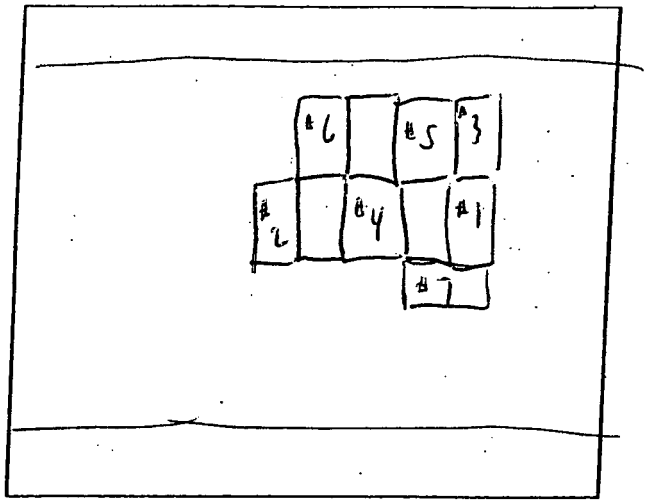
[redacted]

12/4/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

71

Survey unit 707021A
Grid # 08



Pre Source check 424 c/m
Post Source check 388 c/m
Post Source check +or- 20% Yes X No —

	TSA	LAB
#1	15.0 cpm	1.0 cpm = 64 d/m
#2	12.0 cpm	5.0 cpm = 32 d/m
#3	6.0 cpm	3.0 cpm = 14 d/m
#4	22.0 cpm	4.0 cpm = 82 d/m
#5	9.0 cpm	1.0 cpm = 37 d/m
#6	10.0 cpm	5.0 cpm = 23 d/m
#7	9.0 cpm	3.0 cpm = 27 d/m

Name [redacted]
Rct #
Date 12/6/04

Inst Electra
S/N 1266
Cal Date Due 1/28/05
Eff 21.9%
LAB SEE LIST c/m ____ d/m
LAB Taken in Center of Grid

Supervisor W Sullen RSM signature [redacted]
Date 12/6/04

22

Survey Area:	Survey Unit:	Building:
Survey Unit Area Description: Building 707, 1st floor, Trench, 25-10% cam		

Investigation Documentation Sheet

Grid Location (X, Y, Z coord)	Survey #	RCT ID #	Instr. ID #	LAB Meas. (cpm)	RSA Meas. (cpm)	RSA Meas. Background (cpm)	RSA Meas. Net (cpm)	Gross (cpm)	Comments	Date
8	1	1	1	1.0	15.0					12-6-04
8	2	1	1	5.0	12.0					12-6-04
8	3	1	1	3.0	6.0					12-6-04
8	4	1	1	4.0	12.0					12-6-04
8	5	1	1	1.0	9.0					12-6-04
8	6	1	1	5.0	10.0					12-6-04
8	7	1	1	3.0	9.0					12-6-04

RCT ID #				Date
1	[redacted]			12/6/04
2				
3				N/A
4				

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	1266	01/22/05	21.9%	
2				N/A
3	N/A	N/A	N/A	
4				

Comments

W Sutton
Supervisor (print)

[redacted]
Supervisor (signature)

[redacted]

12/6/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

73

Total Surface Activity

Survey Area:	C	Survey Unit:	707021A				
Meter Model:	NE Electra w/ DP6 Probe					Dates Counted:	12/6/04
Instrument #:	1266	n/a	n/a	n/a	n/a	A priori MDA:	94
Cal. Due Date:	1/28/05	n/a	n/a	n/a	n/a	Avg. Local Bkgd	3.1
Efficiency (c/d):	0.219	n/a	n/a	n/a	n/a		

Grid 8 #	Survey date	Inst. #	Instrument (cpm)	Local Bkgd (cpm)	(dpm/100 cm^2)
1	12/6/04	1266	15	1.0	64
2	12/6/04	1266	12	5.0	32
3	12/6/04	1266	6	3.0	14
4	12/6/04	1266	22	4.0	82
5	12/6/04	1266	9	1.0	37
6	12/6/04	1266	10	5.0	23
7	12/6/04	1266	9	3.0	27

MIN	14
MAX	82
Average	40
SD	24

Survey unit 707021A
Grid # 09

< 94 d/m

Pre Source check 536 c/m
Post Source check 577 c/m
Post Source check +or- 20% Yes X No —

Name [redacted]
Rct # [redacted]
Date 12/2/04

Inst Electra
S/N 3973
Cal Date Due 12/22/04
Eff .214
LAB 4.0 cpm 20 D/m LAB taken in center of Grid

Reviewed by W. Sutton [redacted] 12/3/04

75

Survey unit 707021A
Grid # 10

<94 d/m

Pre Source check 537 c/m
Post Source check 548 c/m
Post Source check +or- 20% Yes ✓ No —

NAME [redacted]
Rct # [redacted]
Date 12/2/04

Inst Electra
S/N 1259
Cal Date Due 4/1/05
Eff 1223
LAB 3.0 c/m 150 l/m LAB taken in center of Grid

Reviewed by W. Sutton [redacted] 12/3/04

96

Survey unit 707021A

Grid # 11

< 94 d/m

Pre Source check 405 c/m

Post Source check 409 c/m

Post Source check +or- 20% Yes ✓ No

Name [redacted]

Rct # 12-3-04

Date 12-3-04

Inst Electra

S/N 4408

Cal Date Due 4-18-05

Eff 21.9%

LAB 14.0 cpm / 70. dpm LAB taken in center of Grid

Supervisor Name Sutt ~~RSM~~ QC 12/5/04 Signature [signature] Em [redacted]

77 Date 12/4/04

Survey unit 707021A
Grid # 12

<94 d/m

Pre Source check 356 c/m
Post Source check 362 c/m
Post Source check +or- 20% Yes ✓ No ___

Name [redacted]
Rct # [redacted]
Date 12/2/04

Inst Electra
S/N 4408
Cal Date Due 4/18/05
Eff .219
LAB 60 d/m 30 D/m LAB taken in Center of Grid

Reviewed by W Sutter [redacted] 12/3/04

78

Survey unit 707021A
Grid # 13

<94 DPM

Pre Source check 311 c/m
Post Source check 305 c/m
Post Source check +or- 20% Yes ✓ No —

NAME [redacted]
Rct # [redacted]
Date 12-2-04

Inst Electra
S/N 4679
Cal Date Due 1-23-05
Eff .208
LAB 5.0 C.P.M. 250 c/m LAB taken in center of Grid

Reviewed by W Sutter [redacted] 12/3/04

79

Survey unit 707021A

Grid # 14

<94 dpm

Pre Source check 536 cpm

Post Source check 455 cpm

Post Source check +or- 20% Yes X No —

NAME [redacted]

Rct # [redacted]

Date 12-3-04

Inst Electra

S/N 4176

Cal Date Due 1-16-05

Eff 22.3%

LAB N/A

LAB taken in center of Grid

Supervisor NAME Sutton ~~RSM~~ QC 12/5/04 Signature [redacted]

Date 12/4/04

80

Survey unit 707021A

Grid # 15

<94 d/m

Pre Source check 375 c/m

Post Source check 369 c/m

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

Rct # [redacted]

Date 12/3/04

Inst Electra

S/N 2166

Cal Date Due 1/28/05

Eff 21.9%

LAB 8.0 c/m 40 d/m

LAB taken in center of Grid

81

Reviewed By: J. CRIDER/ [redacted] 12/3/04

Survey unit 707021 A
Grid # 16

< 94 dpm

Pre Source check 387 cpm
Post Source check 401 cpm
Post Source check +or- 20% Yes X No —

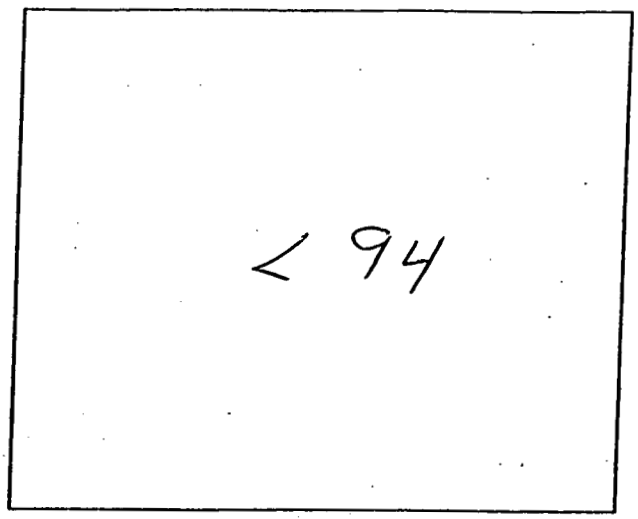
NAME [redacted]
Rct # [redacted]
Date 12/4/04

Inst Electra
S/N 4408
Cal Date Due 04/18/05
Eff 21.9%

LAB 8.0 cpm
LAB ~~DAT~~ TAKEN in center of Grid
ws 12/4/04
Reviewed by W Sutter [redacted] 12/4/04

82

Survey unit 707021A
Grid # 17



Pre Source check 405 clm
Post Source check 401 clm
Post Source check +or- 20% Yes ✓ No

Name [redacted]
Rct # [redacted]
Date 12-3-04

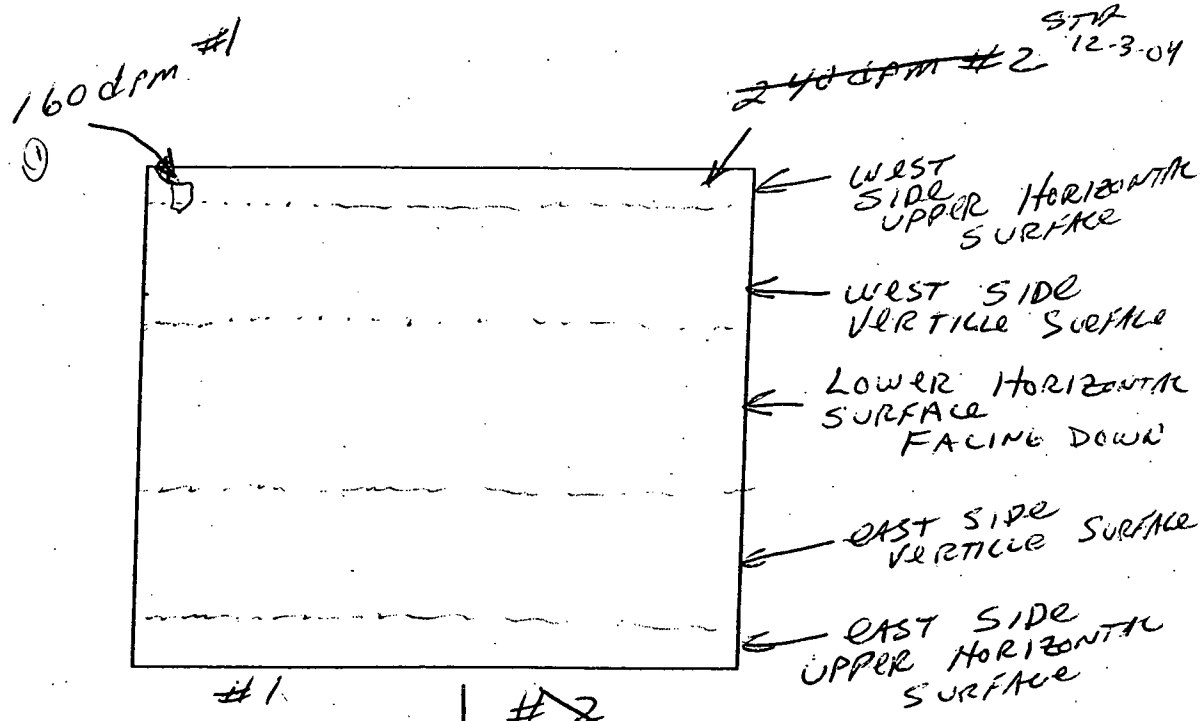
Inst Electra
S/N 4408
Cal Date Due 4-18-05
Eff 21.9%
LAB 13.0CPM/65DPM
LAB Taken in center of Grid

Supervisor Name Sutton ~~RSM~~ QC Signature [signature] Em[redacted]
12/5/04

83 Date 12/4/04

Survey unit 707021A

Grid # 18



	#1	~~#2~~
Pre Source check	536 c/m	___ c/m
Post Source check	456 c/m	___ c/m STP 12-3-04
Post Source check +or- 20%	Yes ___	No ___

Name [redacted]

Rct # [redacted]

Date 12-3-04

	#1	~~#2~~ STP 12-3-04
Inst	Electra	
S/N	4176	
Cal Date Due	1-16-05	
Eff	22.3%	
LAB	4.0 cpm	

LAB Taken in center of Grid

Supervisor Name Scott ~~RSM~~ QA 12/5/04 Signature [signature] E[redacted]

84 Date 12/4/04

JE 12-3-04

Survey Area: C	Survey Unit: 707030 21 A	Building: 707
Survey Unit/Area Description: Building 707 1st floor - B module		

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X-Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
18	1	1	1	4.0	32					12-3-04

RCT ID #		Date
1	[redacted]	12-3-04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	4176	1-16-05	.223	
2				
3				
4				

Comments

W Scott
Supervisor (print)

Supervisor (signature)

[redacted]

12/4/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

85

Survey unit 707021A

Grid # 19

<194 d/m

Pre Source check 414 c/m

Post Source check 432 c/m

Post Source check +or- 20% Yes X No —

Name [redacted]

Rct #

Date 12/2/04

Inst Electra

S/N 3128

Cal Date Due 4/25/05

Eff .219

LAB 5.0 c/m 25 d/m LAB taken in center of Grid

Reviewed by W Sutton [redacted] 12/3/04

86

Survey unit 707021A

Grid # 20

<294 D/M

Pre Source check 375 c/m

Post Source check 393 c/m

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct # [redacted]

Date 12/3/04

Inst Electra

S/N 1266

Cal Date Due 1/28/05

Eff 21.9%

LAB 3.0 c/m 15 D/M

LAB taken in center of Grid

87 Reviewed By: J. CRIDER/ [redacted] 12/3/04

Survey unit 707021A
Grid # 21

<94 D/m

Pre Source check 405 c/m
Post Source check 386 c/m
Post Source check +or- 20% Yes ✓ No —

Name [redacted]
Rct # [redacted]
Date 12-3-04

Inst Electra
S/N 4408
Cal Date Due 4-18-05
Eff 21.9 %
LAB 6.0 cpm / 30 DPM LAB taken in Center of Grid

Supervisor Name W Sutt ~~RSM~~ 12/5/04 Signature [signature] Em [redacted]

88 Date 12/4/04

Survey unit 707021A
Grid # 22

<94 D/m

Pre Source check 405 c/m
Post Source check 393 c/m
Post Source check +or- 20% Yes ✓ No

NAME [redacted]
Rct # [redacted]
Date 12-3-04

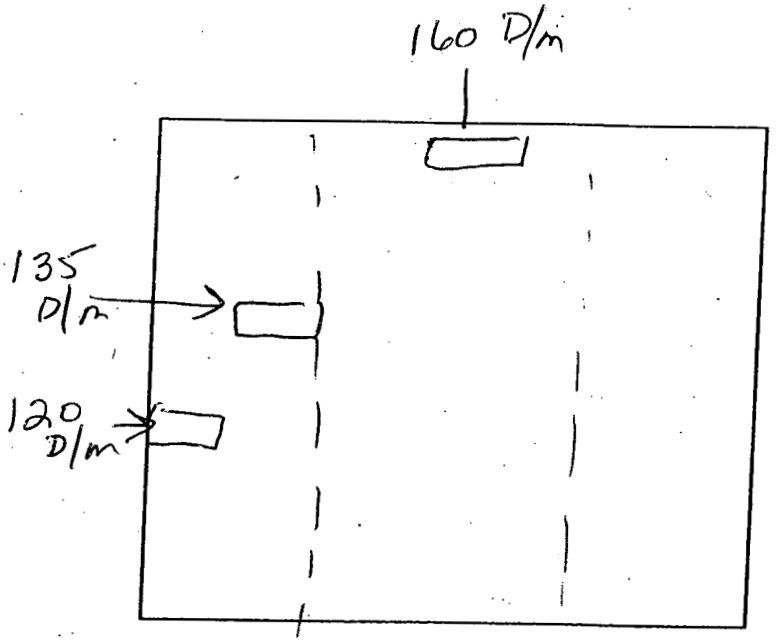
Inst Electra
S/N 4408
Cal Date Due 4-18-05
Eff 21.9%
LAB 8 CPM 40 DPM
LAB taken in center of Grid

Supervisor NAME D Sutt ~~RSM~~ QC 12/5/04 Signature [signature] E[redacted]

89 : Date 12/4/04

Survey unit 707021A

Grid # 23



Pre Source check 141 c/m

Post Source check 156 c/m

Post Source check +or- 20% Yes ✓ No

Name [redacted]

Rct # [redacted]

Date 12-3-04

Inst Electra

S/N 2166

Cal Date Due 1-22-05

Eff 21.3%

LAB 4.0 c/m 20 d/m

LAB taken in center of Grid

REVIEWED BY: J. CRIDER [redacted] 12/3/04

Survey Area:	C	Survey Unit:	707021 A	Building:	707

Survey Unit/Area Description: Building 707 1st floor A module

Investigation Documentation Sheet

Grid Location (X Y Coord)	Survey #	RCT ID #	TSA Measurements: Inst ID #	LAB (cpm)	TSA (cpm)	RSA Measurements: Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
23	1	1	1	4.0		35				12-3-04
23	2	1	1	4.0		27				12-3-04
23	3	1	1	4.0		24				12-3-04

N A

RCT ID #		Date
1	[redacted]	12/3/04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	2166	1-22-05	21.3 %	
2				
3				
4				

N A

Comments

W Sutt
Supervisor (print)

Supervisor (signature)

[redacted]

12/4/04
Date

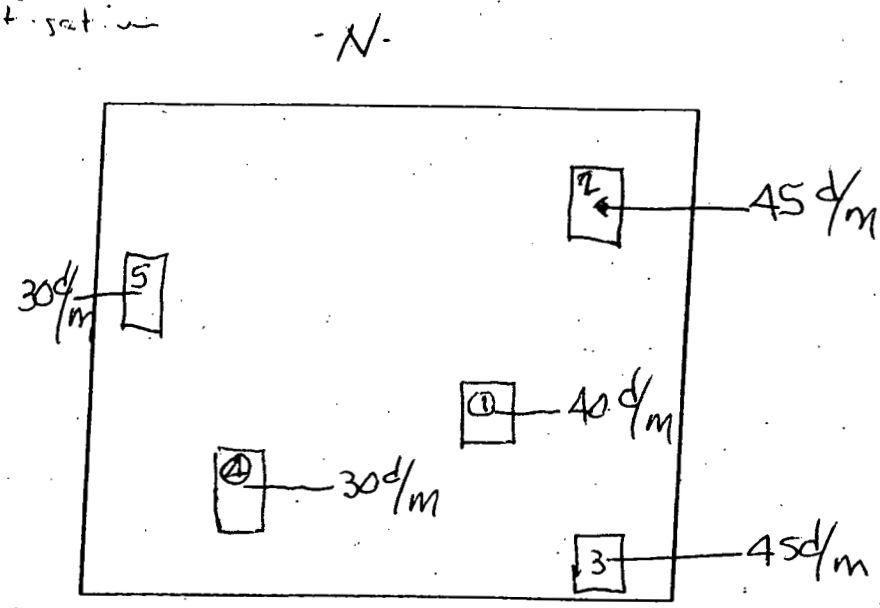
(PRO-475-RSP-16.01, effective 05/22/01)

91

Survey unit 707021A

Grid # 23

Square meter investigation



Pre Source check 583 c/m

Post Source check 612 c/m

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct # [redacted]

Date 12/5/04

Inst Electra

S/N 3973

Cal Date Due 12/22/04

Eff .214

LAB 4.0 c/m 20.0 d/m

LAB Taken in Center of Grid

Supervisor W Suff RSO Signature [redacted]

Date 12/5/04

92

Survey Area: [illegible] Survey Unit: [illegible] Building: [illegible] 707

Survey Unit/Area Description: Building 707 1st floor [illegible] module [illegible] 102 [illegible]

Investigation Documentation Sheet

Sample Location (XX-XXXX)	Survey #	RSP ID #	Inst ID #	TSA Measurements: TSA (cpm)	TSA (cpm)	RSA Measurements: Net (cpm)	Net (cpm)	Gross (cpm)	Comments	Date
23	1	1	1	6.0	8.0	NA			NA	12/5/04
23	2	1	1	6.0	9.0					12/5/04
23	3	1	1	6.0	9.0					12/5/04
23	4	1	1	6.0	6.0					12/5/04
23	5	1	1	6.0	6.0					12/5/04
		NA								NA
									NA	

RCT ID #		Date
1	[redacted]	12/5/04
2		NA
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	3973	12/22/04	12/4	NA
2	NA	NA		NA
3				
4				

Comments

W Sutt
Supervisor (print)

Supervisor (signature) [redacted]

12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

Survey unit 707021A
Grid # 24

<94 D/m

Pre Source check 537 c/m
Post Source check 559 c/m
Post Source check +or- 20% Yes ✓ No —

Name [redacted]
Rct # [redacted]
Date 12/2/04

Inst Electra
S/N 1259
Cal Date Due 4/1/05
Eff .223
LAB 4.09/m 20 D/m LAB taken in center of Grid

Reviewed by W Sutter [redacted] 12/3/04

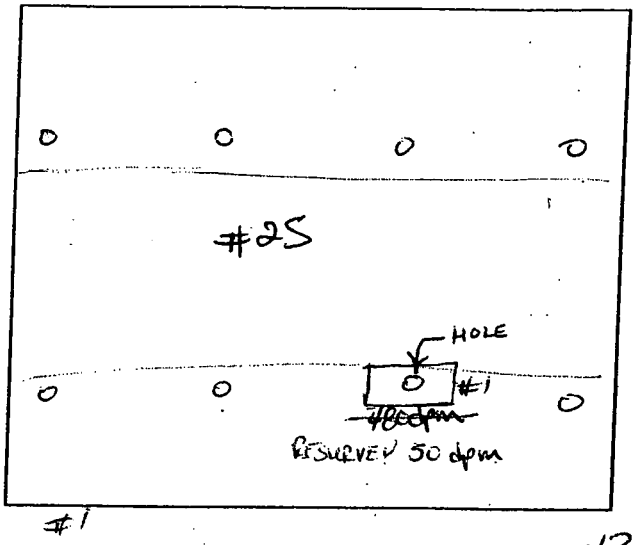
94

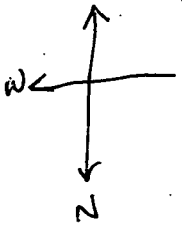
Survey unit 7070 21A

Grid # 25

	INST #1	#2	RESURVEY
1	94.0 c/m	N/A	INST. #1 10 c/m
2			
3			
4			

INVERTED





NOTE ON POINT #1: Initial 60sec PAT was 94.0 c/m or 480d/m. A WIPE was taken on hole area and was 10 cpm or 50dpm. A 60sec resurvey PAT was 10.0cpm or 50dpm.

Pre Source check 383 c/m

Post Source check 393 c/m

Post Source check +or- 20% Yes X No —

437 c/m

460 c/m

+20% YES

T.E. [illegible] 516334

K. STOVALL 516701 12-3-04

ELECTRA #2 3128 4-25-05 21.9%

Name [redacted]

Rct # [redacted]

Date 12-3-04

Inst Electra #1

S/N 1266

Cal Date Due 1-28-05

Eff 21.9%

LAB 5.0 c/m = 25 d/m

LAB 5.0 c/m = 25 d/m

LAB taken in center of Grid

Supervisor Name Scott ~~RSM~~ Qc 12/5/04 Signature [signature] [redacted]

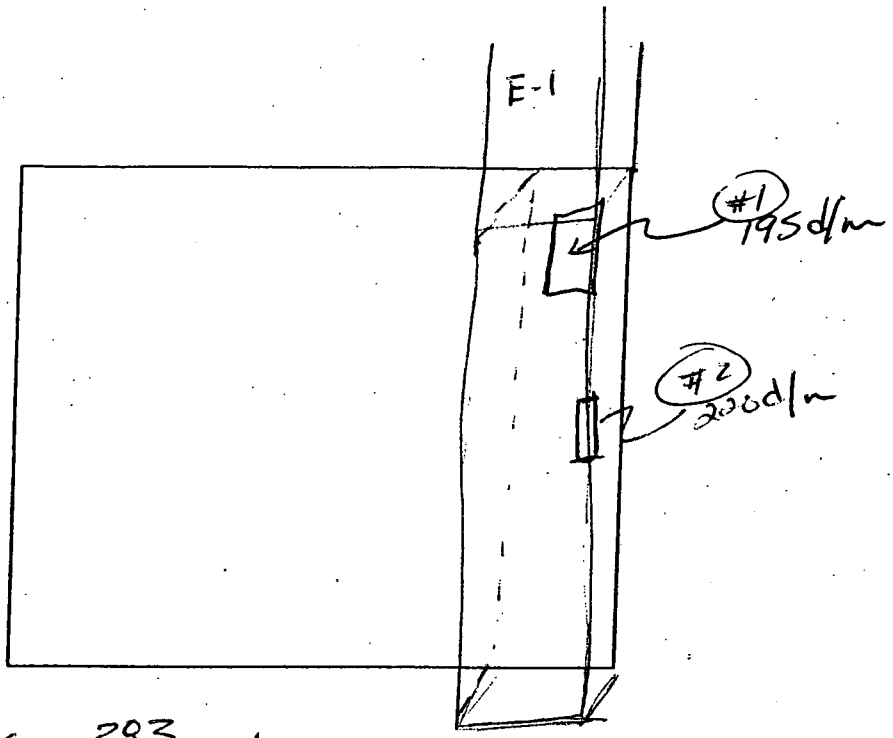
Date 12/4/04

95

Survey unit 7070 21A

Grid # 26

	INST # 1	2
#1	N/A	39c/m
#2	N/A	44 c/m
#3		



Pre Source check 383 clm

Post Source check 384 clm

Post Source check +or- 20% Yes ✓ No —

PRE	437
POST	425
±20%	YES

NAME [redacted]

RCT # [redacted]

Date 12-3-04

Inst Electra #1

S/N 1266

Cal Date Due 1-28-05

Eff 21.9%

LAB 7.0 c/m = 35 d/m

NAME	[redacted]
RCT #	
Date	12-3-04
	ELECTRA #2
S/N	3120
Cal Due	4-25-05
Eff	21.9%
LAB	3.0 c/m = 15 d/m

LAB taken in center of Grid

Supervisor NAME W Sutton ~~RSM~~ QC 12/5/04 Signature [signature]

[redacted]

Date 12/4/04

96

Survey Area: C	Survey Unit: 707 0 2 1 A	Building: 707

Survey Unit/Area Description: Building 707 1st floor, _ modules _ 10% scan

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X Y Coord)	Survey #	RCT ID #	Inst ID #	LAP (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
26	1	1	1	7.	39.	~~32.~~	SF 12/5/04		N/A	12/3/04
26	2	1	1	7.	44.	~~37.~~			N/A	12/3/04
N/A									N/A	
					N/A			N/A		N/A

RCT ID #		Date
1	[redacted]	12/3/04
2		
3		
4		N/A

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	1266	1/28/05	.219	N/A
2	N/A			
3				
4				N/A

Comments: BOTH SPOTS ON E-1 COLUMB

W Sutter
Supervisor (print)

Supervisor (signature) [redacted]

12-4-04
Date

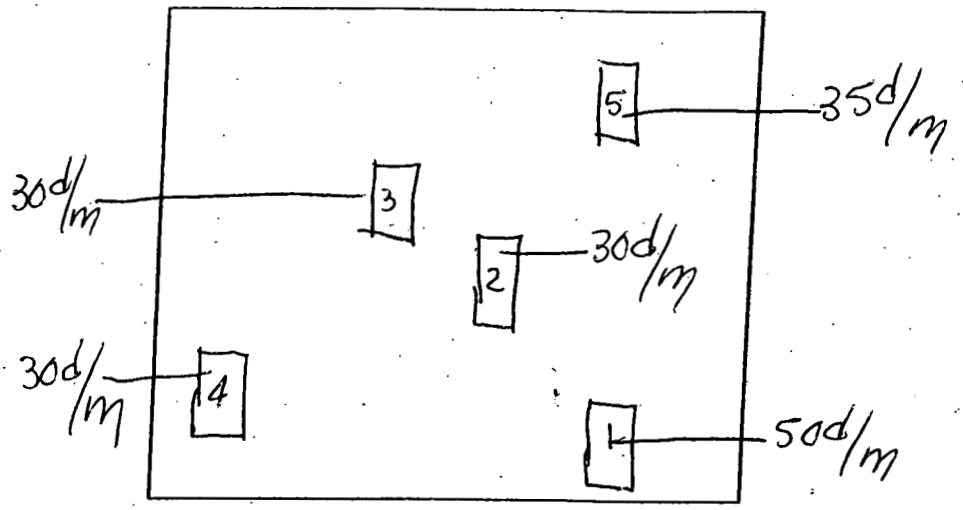
(PRO-475-RSP-16.01, effective 05/22/01)

97

Survey unit 707021A

Grid # 26

Square meter investigation



Pre Source check 579 c/m

Post Source check 592 c/m

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

Rct # [redacted]

Date 12/5/04

Inst Electra

S/N 3973

Cal Date Due 12/22/04

Eff .214

LAB 6.0 c/m 30.0 d/m

LAB Taken in Center of Grid

Supervisor W Sutt RS Signature [redacted]

12/4/04

Date 12/5/04

98

Survey Area: [illegible] | Survey Unit: [illegible] | Building: [illegible]

Survey Unit Area Description: Building 707, Floor [illegible], room [illegible], 10% scan

Investigation Documentation Sheet

Investigation (XX Gamma)	Survey #	NET (Y/N)	Instr. (Y/N)	TSA Measurements Avg (cpm)	TSA Measurements Gross (cpm)	RSA Measurements Net (cpm)	RSA Measurements Gross (cpm)	Gross (cpm)	Comments	Date
26	1	1	1	6.0	10.0				NA	12/5/04
26	2	1	1	6.0	6.0					12/5/04
26	3	1	1	6.0	6.0					12/5/04
26	4	1	1	6.0	6.0					12/5/04
26	5	1	1	6.0	7.0					12/5/04
							NA			
										NA
			NA							

RCT ID #		Date
1	[redacted]	12/5/04
2		
3		NA
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	3973	12/22/04	12/4	NA
2	NA	NA	NA	NA
3				
4				

Comments

W Sutt
Supervisor (print)

[redacted]
Supervisor (signature)

12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

99

Survey unit 707021A
Grid # 27

<94 D/m

Pre Source check 416 c/m
Post Source check 444 c/m
Post Source check +or- 20% Yes ✓ No —

Name [redacted]
Rct # [redacted]
Date 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9%
LAB 4.0 ℓ/m
LAB Taken in center of Grid

Reviewed by Sutter [redacted] 12-4-04

108

Survey unit 707021A
Grid # 28

<94 DPM

Pre Source check 291 c/m
Post Source check 297 c/m
Post Source check +or- 20% Yes ✓ No —

Name [redacted]
Rct #
Date 12-2-04

Inst Electra
S/N 4679
Cal Date Due 1-23-05
Eff .208
LAB 5.0 CPM 25 D/m

Reviewed by W Sutton [redacted] 12/3/04

101

Survey unit 707021A

Grid # 29

BEAM

< 94 dpm

Pre Source check 411 ~~417~~ RRH 12/4/04 cpm

Post Source check 409 cpm

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct #

Date 12/4/2004

Inst Electra

S/N 4408

Cal Date Due 4/18/05

Eff 21.9%

LAB 8 cpm 400 lm

Local Area Background
taken in center of Grid

102 Reviewed by W Sutton [redacted] 12/4/04

Survey unit 70702/A

Grid # 30

<94 d/m

Pre Source check 4/4 c/m

Post Source check 457 c/m

Post Source check +or- 20% Yes X No —

Name [redacted]

Rct # [redacted]

Date 12/2/04

Inst Electra

S/N 3128

Cal Date Due 4/25/05

Eff .219

LAB 3.0 c/m 15 d/m LAB taken in center of Grid

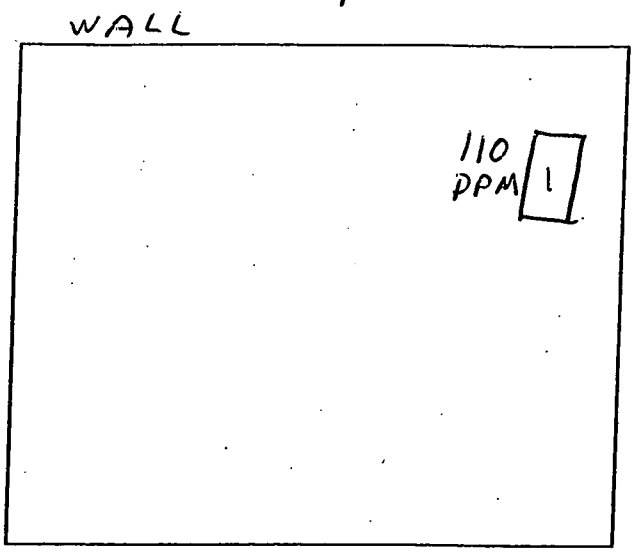
Reviewed by W Sutter [redacted] 12/3/04

103

Survey unit 707021A

Grid # 31

UP
↑



Pre Source check 405 clm

Post Source check 379 clm

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct # [redacted]

Date 12-3-04

Inst Electra

S/N 4408

Cal Date Due 4-18-05

Eff 21.9%

LAB 11CPM 55DPM

LAB taken in center of Grid

Supervisor Name J Sutter ~~RSM~~ QC 12/5/04 Signature [redacted]

Date 12/4/04

109

Survey Area: [redacted]	Survey Unit: [redacted]	Building: [redacted]
Survey Unit/Area Description: Building 707 1st floor A module		

Investigation Documentation Sheet

Grid Location (X,Y Coord)	Survey #	RCT ID #	Inst. ID #	LAB (cpm)	TSA (cpm)	TSA Measurements Net (cpm)	TSA Measurements Inst Bkg (cpm)	RSA Measurements Gross (cpm)	Comments	Date
31	1	1	1	11	22	N/A	N/A	N/A	N/A	12-3-04
N/A										
										N/A

RCT ID #	[redacted]	Date
1		12-3-04
2		
3		
4		N/A

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	4408	4-18-05	.219	N/A
2	N/A			
3				
4				N/A

Comments
Reinvestagation of Hot spot number 1

W Smith
Supervisor (print)

[signature]
Supervisor (signature)

[redacted]

12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

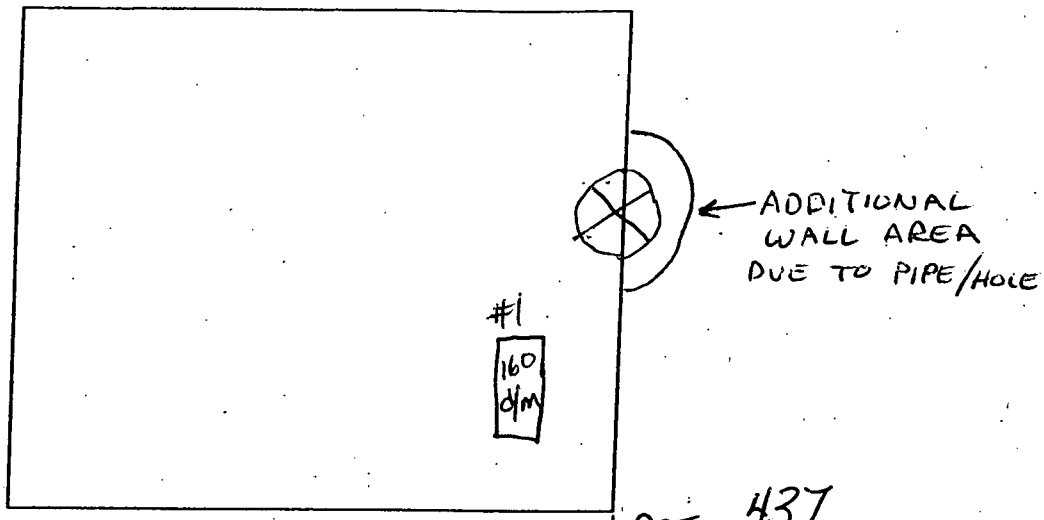
105

Survey unit 7070 21A

Grid # 32

	INST #1	INST #2
#1	N/A	32 c/m
#2		
#3		
#4		

WALL # 32



PRE 437

POST 431

±20% YES

Pre Source check 383 c/m

Post Source check 396 c/m

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

RCT # [redacted]

Date 12-3-04

Inst ELECTRA #2

S/N 3128

Cal Due 4-25-05

Eff 21.9%

LAB 5.0 c/m 25.0 d/m

NAME [redacted]

RCT # [redacted]

Date 12-3-04

Inst Electra #1

S/N 1266

Cal Date Due 1-28-05

Eff 21.9%

LAB 6.0 c/m = 30 d/m

LABs taken in center of Grid

Supervisor NAME W Sutton ~~RSM~~ QC 12/5/04 Signature [signature] [redacted]

Date 12/4/04

106

Survey Area: C	Survey Unit: 707021-4	Building: 707
Survey Unit Area Description: Building 707 1st floor - A module		

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X-Y Coord)	Survey #	RCT ID #	Inst. (ID#)	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
32	1	1	1	6.0	32.0	N/A			N/A	12-3-04
N/A									N/A	
					N/A			N/A		N/A

RCT ID #		Date
1	[redacted]	12-3-04
2		
3		
4		N/A

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	1266	1-28-05	21.9%	N/A
2	N/A			
3				
4				N/A

Comments: ADDITIONAL WALL AREA ADDED BECAUSE OF HOLE / PIPE PENETRATION

W Sutter — Supervisor (print)

[signature] — Supervisor (signature)

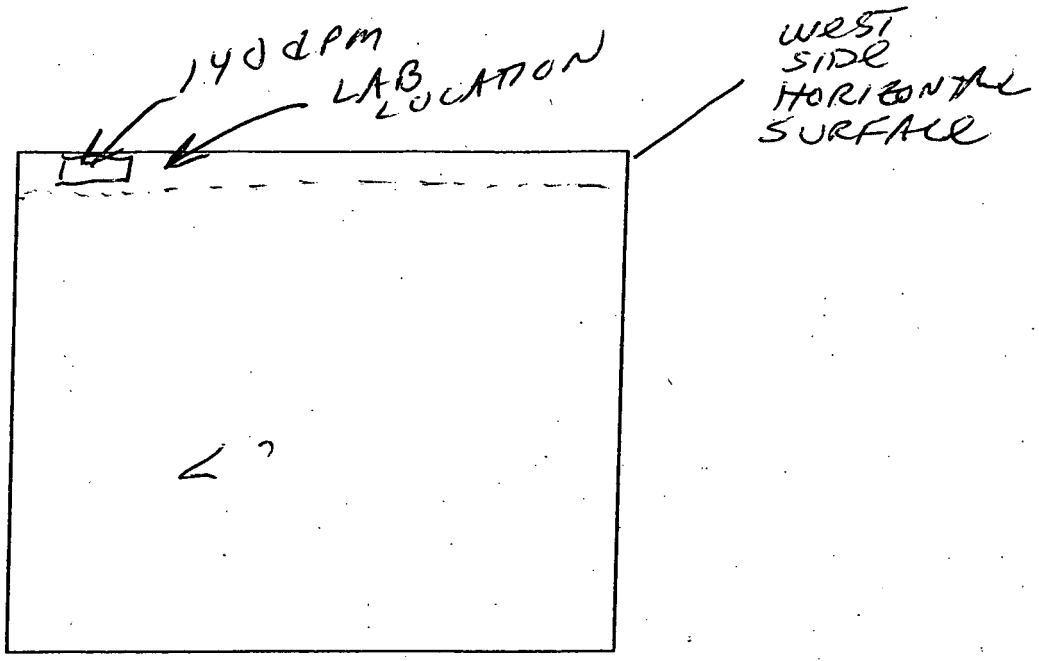
[redacted] — 12/4/04 — Date

(PRO-475-RSP-16.01, effective 05/22/01)

107

Survey unit 707071A

Grid # 33



Pre Source check 373 clm

Post Source check 402 clm

Post Source check +or- 20% Yes X No —

Name [redacted]

Rct # [redacted]

Date 12-4-04

Inst Electra

S/N 4176

Cal Date Due 1-16-05

Eff 22.3%

LAB 9.0 cPM 40 D/m

LAB taken in Center of Grid

Supervisor Name W Sutter RSM 12/5/04 Signature [redacted]

108 Date 12/4/04

Survey Area	C	Survey Unit	07021	Building	07
Survey Unit Area Description	Building 07, Section A module				

Investigation Documentation Sheet

Grid Location X-Y-Z coord	Survey #	Reading #	TSA Measurements Alpha (dpm)	Alpha (cpm)	TSA Measurements Beta (dpm)	Beta (cpm)	Beta Gross (cpm)	Comments	Date
33	1	1	1	8.0	28				12/4/04
							N/A		N/A
		N/A							

RCT ID #		Date
1	[redacted]	12/4/04
2		
3		N/A
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	Electra 4176	1/16/05	22.3%	
2				
3				
4				

Comments Resurvey After 16 hours of Decay

W Sutton
Supervisor (print)

Supervisor (signature) [redacted]

12/4/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

Survey unit 707021A
Grid # 34

<94 DPM

Pre Source check 306 cpm
Post Source check 308 cpm
Post Source check +or- 20% Yes ✓ No —

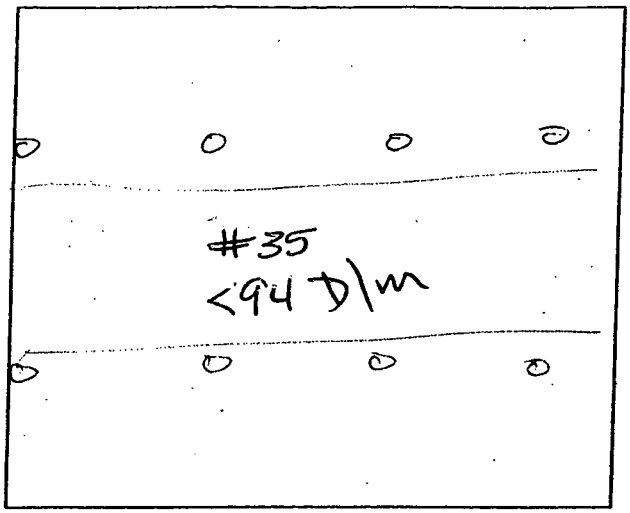
NAME [redacted]
Rct #
Date 12-2-04

Inst Electra
S/N 4679
Cal Date Due 1-23-05
Eff .208
LAB 5.0 e.p.m. 25D/m LAB taken in center of Grid

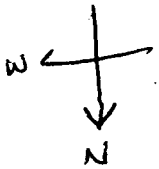
Reviewed by W Sutton [redacted] 12/3/04

110

Survey unit 7070 21A
Grid # #35



INVERTED



Pre Source check 383 c/m
Post Source check 392 c/m
Post Source check +or- 20% Yes X No —

PRE 437
POST 420
±20% YES

NAME [redacted]
RCT # [redacted]
Date 12-3-04

[redacted]
12-3-04

Inst Electra #1
S/N 1266
Cal Date Due 1-20-05
Eff 21.9%

ELECTRA #2
3128
4-25-05
21.9%

LAB 50 c/m 25d/m

LAB 5.0c/m = 25 d/m

LAB taken in center of Grid

Supervisor Name W. Sutter ~~RSM~~ 12/5/04 Signature [redacted]

Date 12/4/04

111

Survey unit 707021A
Grid # 36

< 94 DPM

Pre Source check 405 cpm
Post Source check 366 cpm
Post Source check +or- 20% Yes ✓ No —

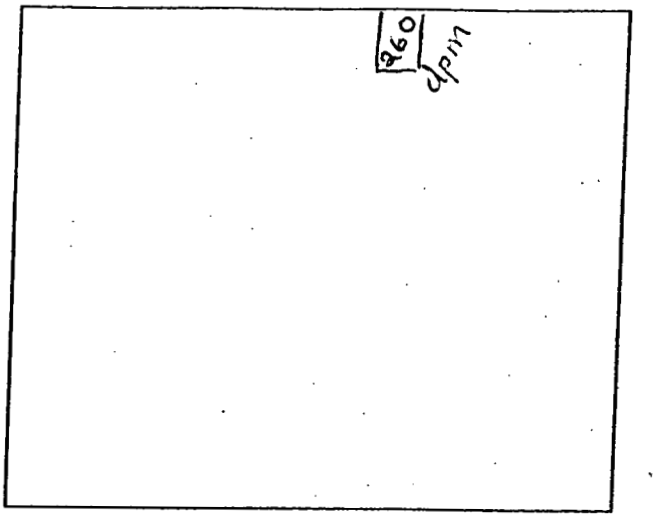
Name [redacted]
Rct # [redacted]
Date 12-3-04

Inst Electra
S/N 4408
Cal Date Due 4-18-05
Eff 21.9%
LAB 6.0 cpm
30 dpm
LAB taken in center of grid
Supervisor Name W Sutton ~~RSM~~ QC 12/5/04 Signature [signature] [redacted]
Date 12/4/04

112

Survey unit 707021A

Grid # 37



Pre Source check 441 clm

Post Source check 418 clm

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

Rct # [redacted]

Date 12/4/04

Inst Electra

S/N 4408

Cal Date Due 4/18/05

Eff 21.9%

LAB 8.00 cpm 40 Dlm

LAB Taken in center of Grid

Reviewed by W Sutt [redacted] 12/4/04

113

Survey Area: [illegible]	Survey Unit: [illegible]	Building: 707
Survey Unit/Area Description: Building 707 1st floor A module		

Investigation Documentation Sheet

Grid Location (X,Y coord)	Survey #	RCT ID #	RSA Measurements Inst #	RSA Measurements LAB (cpm)	RSA Measurements TSA (cpm)	RSA Measurements Net (cpm)	RSA Measurements Inst Bkg (cpm)	Gross (cpm)	Comments	Date
37	1	1	1	8.0	52					12/4/04

RCT ID #		Date
1	[redacted]	12/4/04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	Electra 44608	4/18/05	21.9%	
2				
3				
4				

Comments

W Sutt
Supervisor (print)

Supervisor (signature) [redacted]

12-4-04
Date

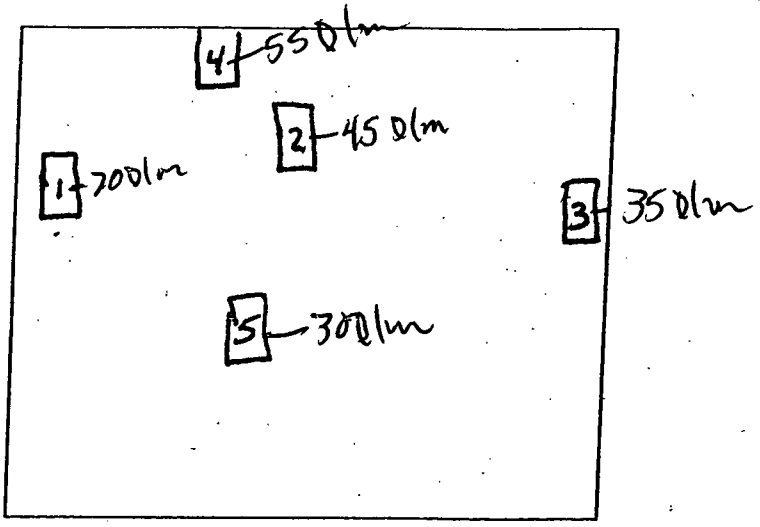
(PRO-475-RSP-16.01, effective 05/22/01)

114

Survey unit 707021A ~~7070021~~ RF 12/5/04

Grid # 37

Square meter average



Pre Source check 374 cpm

Post Source check 378 cpm

Post Source check +or- 20% Yes X No —

NAME [redacted]

Rct # [redacted]

Date 12/05/04

Inst Electra

S/N 4398

Cal Date Due 01/29/05

Eff .210

LAB 7.0 cpm 35.0 dpm

LAB Taken in Center of Grid

Supervisor W Scott RSM signature [signature] [redacted]

Date 12/5/04

115

12/5/04

Survey Area:	C	Survey Unit:	~~R 707~~ 707021A	Building:	707
Survey Unit/Area Description: Building 707 1st floor - J module					

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X-Y Coord)	Survey #	RCT ID #	Inst. ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
37	1	1	1	7.0	14.0	NA				12/05/04
37	2	1	1	7.0	9.0					12/05/04
37	3	1	1	7.0	7.0					12/05/04
37	4	1	1	7.0	11.0					12/05/04
37	5	1	1	7.0	6.0					12/05/04
NA										NA
					NA				NA	NA

RCT ID #				Date
1	[redacted]			12/05/04
2				
3				
4				NA

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	4398	01/29/05	.210	NA
2	NA			
3				
4				NA

Comments

Supervisor (print) Supervisor (signature) [redacted] Date 12/5/04

(PRO-475-RSP-16.01, effective 05/22/01)

c16

Survey unit 707021A

Grid # ~~28~~ 38

AM 12-2-04

<294 dpm.

Pre Source check 303 cpm

Post Source check 308 cpm

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

Rct # [redacted]

Date 12-2-04

Inst Electra

S/N 4679

Cal Date Due 1-23-05

Eff .208

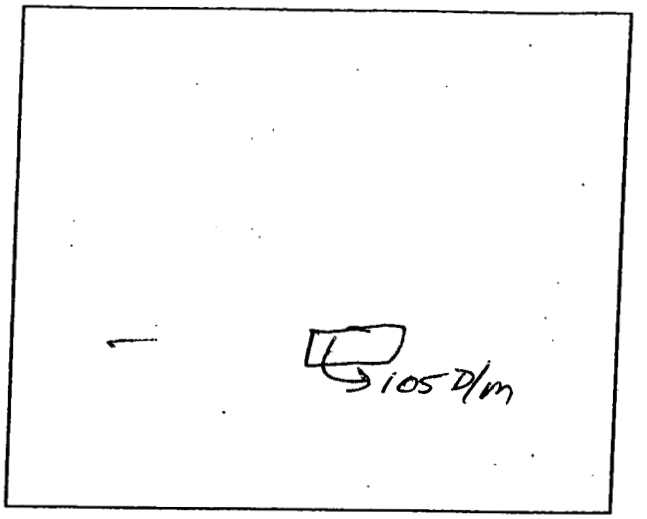
LAB 5.0 C.P.M. 25D/m Lab taken in center of Grid

Reviewed by W Sutter [redacted] 12/3/04

117

Survey unit 707021A

Grid # 39



Pre Source check 375 c/m

Post Source check 381 c/m

Post Source check +or- 20% Yes ✓ No

NAME [redacted]

Rct # [redacted]

Date 12/3/04

Inst Electra

S/N 12666

Cal Date Due 1/28/05

Eff 21.9%

LAB 6.0 d/m 30 d/m

LABs taken in center of Grid

118 REVIEWED BY: T. CRIDER/ [redacted] 12/3/04

Survey Area:	C	Survey Unit:	707021 A	Building:	707

Survey Unit/Area Description: Building 707 1st floor - A module

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X-Y Coord)	Survey #	RCT ID #	Inst. ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
39	1	1	1	6.0	21					12/3/04
		N	A					N	A	N A

RCT ID #		Date
1	[redacted]	12/3/04
2		
3		N A
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	12666	1/28/05	21.9%	
2				
3	N A	N A	N A	N A
4				

Comments

W Scott
Supervisor (print)

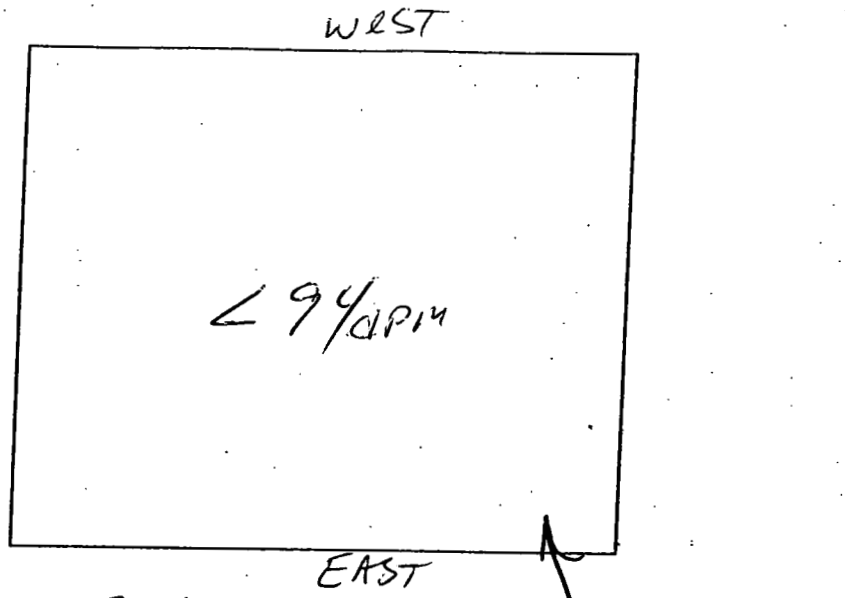
Supervisor (signature) [redacted]

12/4/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

119

Survey unit 707021A
Grid # 40



Pre Source check 314 clm
Post Source check 325 clm
Post Source check +or- 20% Yes X No —

Name [redacted]
Rct # [redacted]
Date 12-4-04

Inst Electra
S/N 4398
Cal Date Due 1-29-05
Eff 21.0%
LAB 3.0 cpm 15 Dlm
LAB Taken in center of Grid
Reviewed by W Sutt [redacted] 12/4/04

120

Survey unit 70702/A
Grid # 41

<94 DPM

Pre Source check 298 c/m
Post Source check 311 c/m
Post Source check +or- 20% Yes ✓ No —

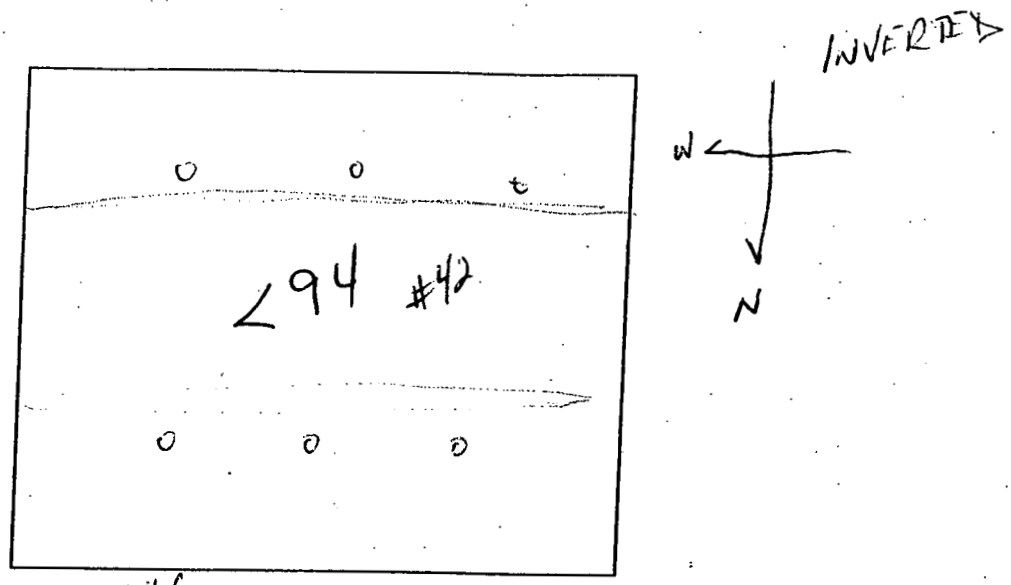
NAME [redacted]
Rct #
Date 12-2-04

Inst Electra
S/N 4679
Cal Date Due 1-23-05
Eff .208
LAB 5.0 CPM 250/m Lab taken in center of Grid

Reviewed by W Sitter [redacted] 12/3/04

121

Survey unit 7070 21A
Grid # 42



#1 #2

Pre Source check 383 c/m / PRE 437
Post Source check 405 c/m POST 412
Post Source check +or- 20% YES ✓ NO — / ±20% YES ✓ NO —

NAME	[redacted]	[redacted]
Rct #		
Date		12-3-04
Inst	Electra #1	#2 ELECTRA
S/N	1266	3128
Cal Date Due	1-28-05	4-25-05
Eff	21.9%	21.9%
LAB	3.0 c/m = 15 d/m	LAB 5.0 c/m = 25 d/m

LAB's taken in Center of Grid

Supervisor Name Sutt RSM 12/5/04 Signature [redacted]

122 Date 12/4/04

Survey unit 707021A
Grid # 43

<94 D/m

Pre Source check 416 c/m
Post Source check 466 c/m
Post Source check +or- 20% Yes ✓ No —

NAME [redacted]
Rct # [redacted]
Date 12/4/04

Inst Electra
S/N 3128
Cal Date Due 4/25/05
Eff 21.9%

LAB 4.0 cpm
Lab taken in center of Grid
Reviewed by W Sutt [redacted] 12/4/04

123

Survey unit 707021A
Grid # 44

BEAM

< 94 dpm

Pre Source check 411 ~~410~~ RAH 12/4/04 cpm
Post Source check 432 cpm
Post Source check +or- 20% Yes ✓ No —

Name [redacted]
Rct # [redacted]
Date 12/4/2004

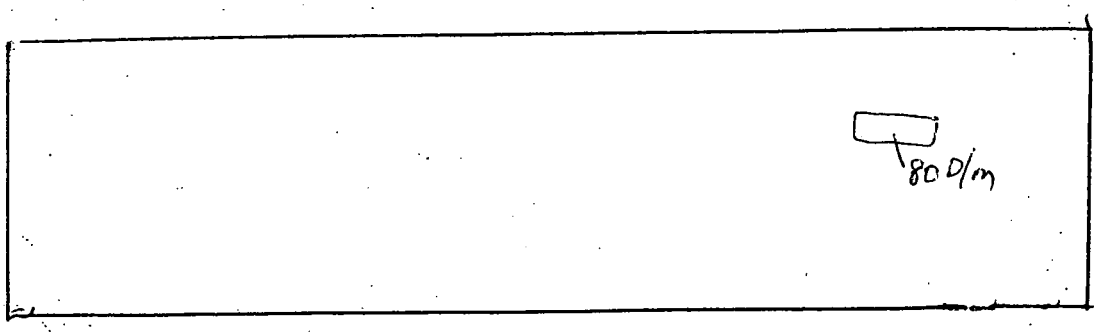
Inst Electra
S/N 4408
Cal Date Due 4/18/05
Eff 21.9%
LAB 8.0 cpm 40 D/m

Local Area Background
taken in center of Grid

124 Reviewed by/ W Sutton [redacted] 12/4/04

Survey unit 707021 A

Grid # 45



Pre Source check 416 c/m

Post Source check 421 c/m

Post Source check +or- 20 % Yes ✓ No —

NAME [redacted]

Rct # [redacted]

Date 12/4/04

Inst Electra

S/N 3129

Cal Date Due 4/25/05

Eff 21.9 %

LAB 6.0 c/m

LAB taken in center of Grid

Reviewed by W Sutt [redacted] 12/4/04

125

Survey Area:	C	Survey Unit:	707C 21 A	Building:	707

Survey Unit/Area Description: Building 707 1st floor - B module

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X,Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
45	1	1	1	6.0	16					12-4-04

RCT ID #		Date
1	[redacted]	12-4-04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	3128	4-25-04	21.9	NA
2				
3				
4				

Comments

W Sutt
Supervisor (print)

Supervisor (signature) [redacted]

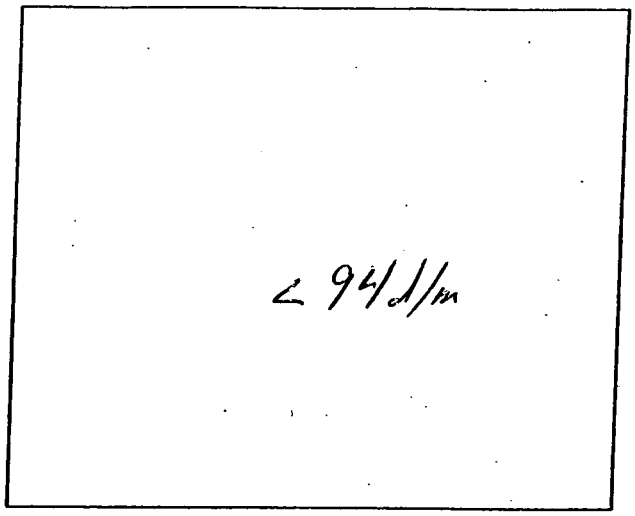
12/4/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

126

Survey unit 707021A

Grid # 46



Pre Source check 536 c/m

Post Source check 603 c/m

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

Rct # [redacted]

Date 12-2-04

Inst Electra

S/N 3973

Cal Date Due 12-22-04

Eff .214

LAB 7.0 c/m 350 d/m Lab taken in center of Grid

Reviewed by W Sutter [redacted] 12/3/04

127

Survey unit 7070 2/A
Grid # 47

<94 dpm

Pre Source check 387 cpm
Post Source check 458 cpm
Post Source check +or- 20% Yes X No —

Name [redacted]
Rct #
Date 12/04/04

Inst Electra
S/N 4408
Cal Date Due 04/18/05
Eff 21.9%
LAB 7.0 cpm
Lab taken in center of Grid

Supervisor Name W Sutter ~~RSM~~ QC 12/5/04 Signature [redacted]

128 Date 12/4/04

Survey unit 707021A
Grid # 48

<294 dpm

Pre Source check 387 cpm
Post Source check 420 cpm
Post Source check +or- 20% Yes X No —

NAME [redacted]
Rct # [redacted]
Date 12/4/04

Inst Electra
S/N 4408
Cal Date Due 04/18/05
Eff 21.9%
LAB 8.0 cpm
Lab taken in Center of Grid
Reviewed by W Sutton [redacted] 12/4/04

129

Survey unit 7070 21A
Grid # 49

<94 DPM

Pre Source check 405 cpm
Post Source check 384 cpm
Post Source check +or- 20% Yes ✓ No

Name [redacted]
Rct # [redacted]
Date 12-3-04

Inst Electra
S/N 4408
Cal Date Due 4-18-05
Eff 21.9%
LAB 10CPM 50DPM
Lab taken in Center of Grid

Supervisor Name W Sutter ~~RSM~~ QC 12/5/04 Signature [redacted]

130 Date 12/4/04

Survey unit 707021A

Grid # 50

< 94 d/m

Pre Source check 414 c/m

Post Source check 436 c/m

Post Source check +or- 20% Yes X No —

Name [redacted]

Rct # [redacted]

Date 12/2/04

Inst Electra

S/N 3128

Cal Date Due 4/25/05

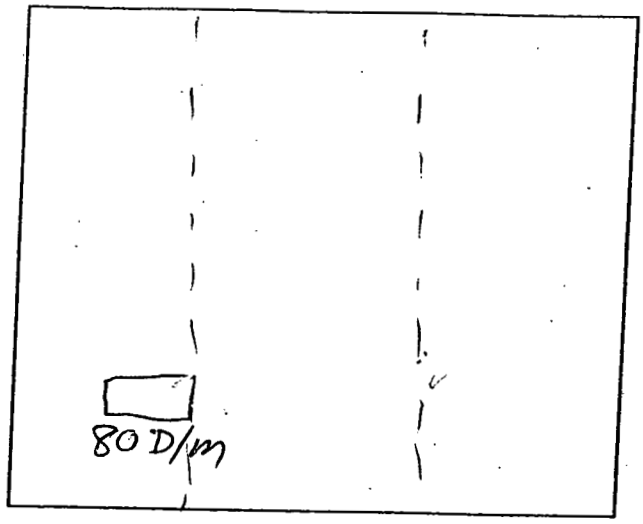
Eff .219

LAB 7.0 c/m 350 l/m Lab taken in center of Grid

Reviewed by W Sutt [redacted] 12/3/04

131

Survey unit 707021A
Grid # 51



Pre Source check 141 c/m
Post Source check 166 c/m
Post Source check +or- 20% Yes ✓ No

NAME [redacted]
Rct # [redacted]
Date 12-3-04

Inst Electra
S/N 2166
Cal Date Due 1-22-05
Eff 21.3%
LAB 6.0 c/m 30 D/m
Lab taken in center of Grid

132-
REVIEWED BY: J CRIDER / [signature] [redacted] 12/3/04

Survey Area: C	Survey Unit: 707021 A	Building: 707
Survey Unit/Area Description: Building 707 1st floor, A module		

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X-Y Coord)	Survey #	RCT ID #	Instr ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
51	1	1	1	6.0	16	N			A	12-3-04

RCT ID #		Date
1	[redacted]	12-3-04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	2166	1-22-05	21.3	
2				
3				
4				

Comments

W Sutter
Supervisor (print)

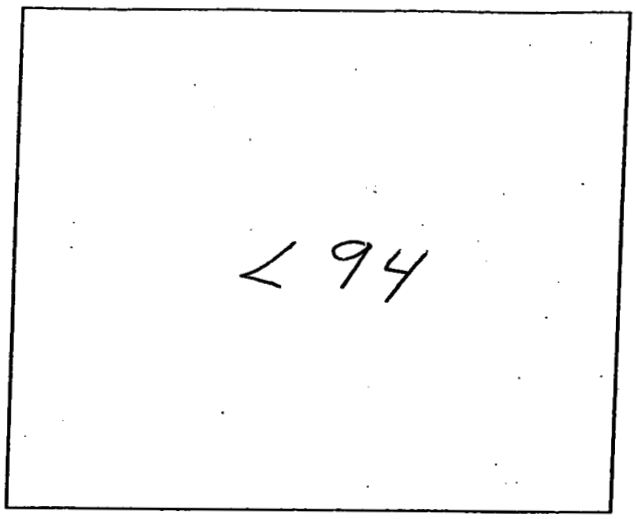
Supervisor (signature) [redacted]

12/4/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

133

Survey unit 707021A
Grid # 52



Pre Source check 405 clm
Post Source check 413 clm
Post Source check +or- 20% Yes ✓ No

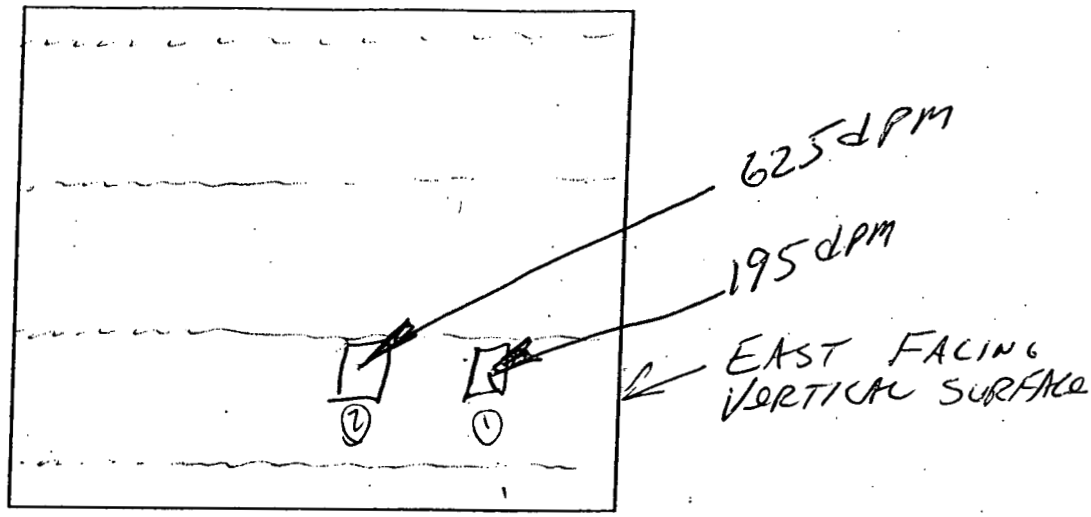
Name [redacted]
Rct #
Date 12-3-04

Inst ElectrA
S/N 4408
Cal Date Due 4-18-05
Eff 21.9%
LAB 7.0 cpm / 35 dpm LAb taken in center of Grid

Supervisor Name W. Sutter RSM Signature [redacted]
Date 12/4/04

134

Survey unit 707021A
Grid # 53



Pre Source check 536 cpm
Post Source check 504 cpm
Post Source check +or- 20% Yes X No —

NAME [redacted]
Rct # [redacted]
Date 12-3-04

Inst Electra
S/N 7176
Cal Date Due 1-16-05
Eff 22.3%
LAB 9.0 cpm
Lab taken in center of Grid

Supervisor NAME W Sutton ~~RSM~~ QC 12/5/04 Signature [redacted]

L35 Date 12/4/04

12-3-04
JC

Survey Area:	C	Survey Unit:	707039-21A	Building:	707

Survey Unit/Area Description: Building 707 1st floor - B module

Investigation Documentation Sheet

Grid Location (X,Y Coord)	Survey #	RCT ID #	TSA Measurements: Inst ID #	TSA Measurements: LAB (cpm)	TSA Measurements: TSA (cpm)	RSA Measurements: Net (cpm)	RSA Measurements: Inst Bkg (cpm)	Gross (cpm)	Comments	Date
53	1	1	1	9.0	39	N/A				12-3-04
53	2	1	1	9.0	125				N/A	12-3-04
N/A										
										N/A

RCT ID #				Date
1	[redacted]			12-3-04
2				
3				
4				N/A

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	4176	1-16-05	.223	
2	N/A			
3				
4				N/A

Comments

W Sutter
Supervisor (print)

Supervisor (signature) [redacted]

12/4/04
Date

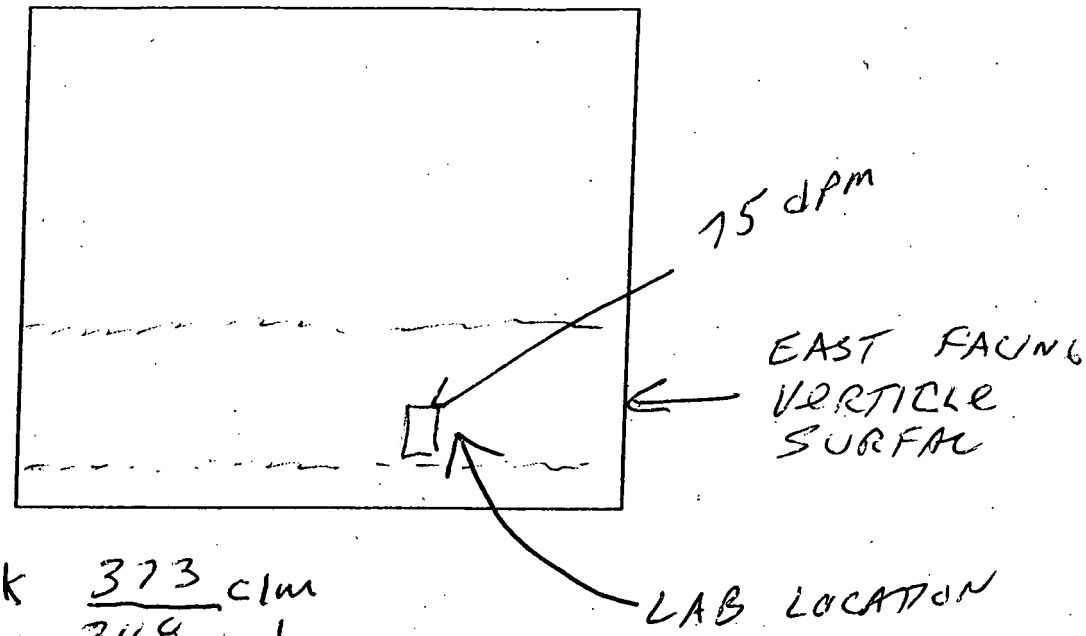
(PRO-475-RSP-16.01, effective 05/22/01)

136

Survey unit 707021A

Grid # 53

RESURVEY OF 625 dpm SPOT AFTER TAPE PRESS



Pre Source check 373 cpm

Post Source check 348 cpm

Post Source check +or- 20% Yes A No —

NAME [redacted]

Rct # [redacted]

Date 12-4-04

Inst Electra

S/N 4176

Cal Date Due ~~7-1-04~~ 7-16-05 STH 12-4-04

Eff 22.3%

LAB 440 cpm 200/m

~~LAB TAKEN in center of Grid~~ NA 12/4/04

Supervisor NAME W S Hu Qc ~~RSM~~ 12/5/04 Signature [redacted]

137 Date 12-4-04

Survey Area: C	Survey Unit: 07021	Room/Building: 07
Survey Unit/Area Description: Building 07 Exterior Aggregate		

Investigation Documentation Sheet

Grid Location (X Y Coord)	Survey #	RCT ID #	ISA Measurements Inst. ID #	LAB (cpm)	ISA (cpm)	RSA Measurements N (cpm)	Inst. (cpm)	Gross (cpm)	Comments	Date
53	1	1	1	4.0	15					12/4/04
		N	A					N	A	N A

RCT ID #	[redacted]	Date
1		12/4/04
2		
3		N A
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	Electra 4176	1-16-05	22.3%	
2				N A
3	N A	N A	N A	
4				

Comments Recount of #2

W Sutt
Supervisor (print)

[redacted]
Supervisor (signature)

[redacted]

12/4/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

Survey unit 707021A
Grid # 54

<94 D/m

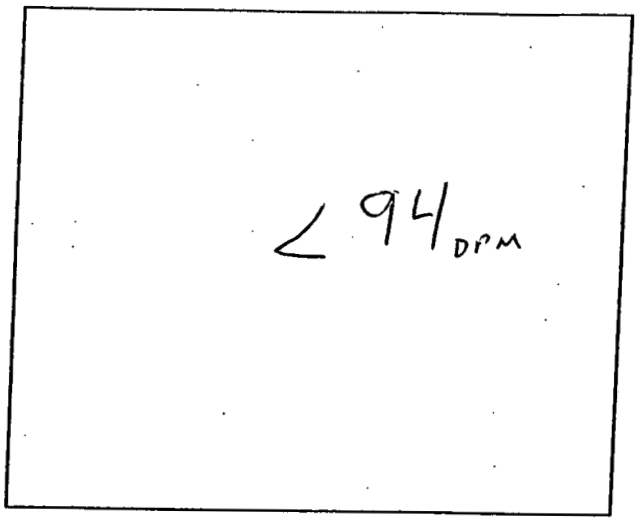
Pre Source check 141 cpm
Post Source check 149 cpm
Post Source check +or- 20% Yes ✓ No —

Name [redacted]
Rct # [redacted]
Date 12-3-04

Inst Electra
S/N 2166
Cal Date Due 1-22-05
Eff 21.3%
LAB 7.0 cpm D/m
Lab taken in center of Grid

139 Reviewed By: J. Crider / [redacted] 12/3/04

Survey unit 707021A
Grid # 55



Pre Source check 405 clm
Post Source check 409 clm
Post Source check +or- 20% Yes ✓ No

NAME [redacted]
Rct # [redacted]
Date 12-3-04

Inst Electra
S/N 4408
Cal Date Due 4-18-05
Eff 21.9%
LAB 4 CPM 20 DPM
Lab taken in center of Grid

Supervisor NAME W Sutton ~~RSM~~ QC 12/5/04 Signature [redacted]

Date 12/4/04

140

Survey unit 707021A
Grid # 56

<94 d/m

Pre Source check 141 c/m
Post Source check 153 c/m
Post Source check +or- 20% Yes ✓ No —

NAME [redacted]
Rct #
Date 12-3-04

Inst Electra
S/N 2166
Cal Date Due 1-22-05
Eff 21.3%
LAB 4.0 c/m 20 d/m
Lab taken in center of Grid

141
Reviewed By: T Crider / [redacted] 12/3/04

Survey unit 707021 A

Grid # 57

<94 dpm

Pre Source check 141 cpm

Post Source check 158 cpm

Post Source check +or- 20% Yes ✓ No

NAME [redacted]

Rct #

Date 12-3-04

Inst Electra

S/N 2166

Cal Date Due 1-22-05

Eff 21.3%

LAB 4.0 c/m 20 dpm

Lab taken in center of Grid

REVIEWED BY J. CRIDER [redacted] 12/3/04

142

Survey unit 707071A

Grid # 58

<194 d/m

Pre Source check 375 c/m

Post Source check 364 c/m

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct # [redacted]

Date 12/3/04

Inst Electra

S/N 12666

Cal Date Due 1/28/05

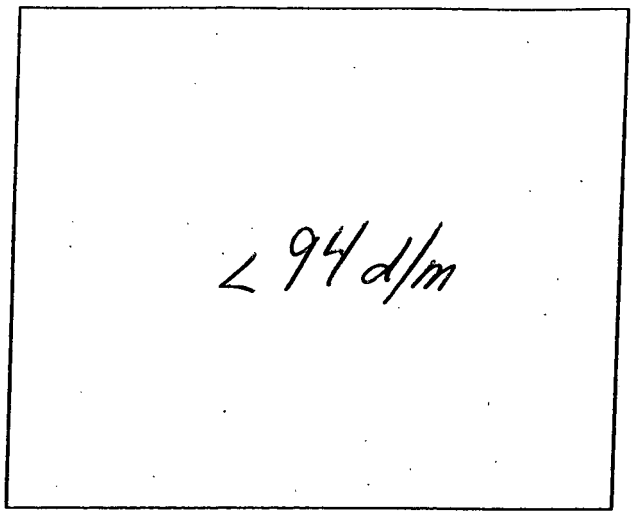
Eff 21.9%

LAB 2.0 d/m 10 d/m

Lab taken in center of Grid

143 REVIEWED BY: J. CRIDER/ [redacted] 12/3/04

Survey unit 707021A
Grid # 59



Pre Source check 536 c/m
Post Source check 446 c/m
Post Source check +or- 20% Yes X No —

NAME [redacted]
Rct #
Date 12/2/04

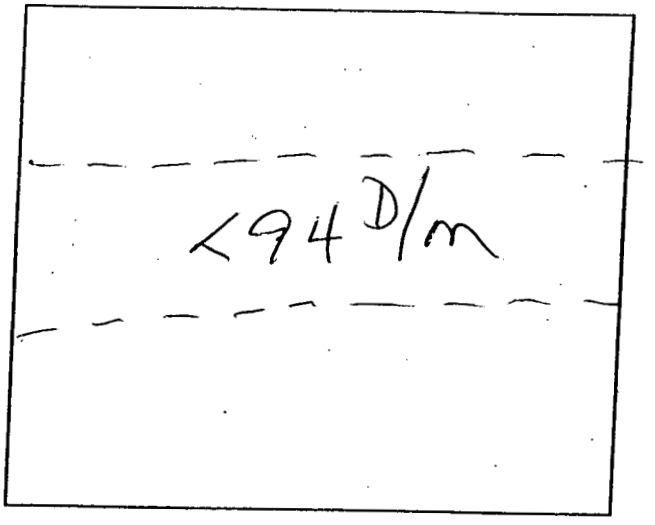
Inst Electra
S/N 3973
Cal Date Due 12/22/04
Eff .214
LAB 3.0 c/m 150 d/m Lab taken in center of Grid

Reviewed by W Sutt [redacted] 12/3/04

144

Survey unit 707021A
Grid # 60

← South



Pre Source check 430 c/m
Post Source check 468 c/m
Post Source check +or- 20% Yes ✓ No —

NAME [redacted]
Rct # [redacted]
Date 12/04/0

Inst Electra
S/N 3128
Cal Date Due 04/25/05
Eff 21.9%
LAB 2.0 d/m / 10 d/m
LAB taken in center of Grid
Reviewed by W Sutton [redacted] 12/4/04

145/145